



Welcome

AmplifyUIBuilder



API Version 2021-08-11

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AmplifyUIBuilder: Welcome

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Welcome

Welcome to the AWS Amplify UI Builder API documentation. This reference provides descriptions of the actions and data types for the Amplify UI Builder API.

The Amplify UI Builder API provides a programmatic interface for creating and configuring user interface (UI) component libraries and themes for use in your Amplify applications. You can then connect these UI components to an application's backend AWS resources.

You can also use the Amplify Studio visual designer to create UI components and model data for an app. For more information, see [Introduction](#) in the *Amplify Docs*.

The Amplify Framework is a comprehensive set of SDKs, libraries, tools, and documentation for client app development. For more information, see the [Amplify Framework](#). For more information about deploying an Amplify application to AWS, see the [Amplify User Guide](#).

This document was last published on April 30, 2026.

Actions

The following actions are supported:

- [CreateComponent](#)
- [CreateForm](#)
- [CreateTheme](#)
- [DeleteComponent](#)
- [DeleteForm](#)
- [DeleteTheme](#)
- [ExchangeCodeForToken](#)
- [ExportComponents](#)
- [ExportForms](#)
- [ExportThemes](#)
- [GetCodegenJob](#)
- [GetComponent](#)
- [GetForm](#)
- [GetMetadata](#)
- [GetTheme](#)
- [ListCodegenJobs](#)
- [ListComponents](#)
- [ListForms](#)
- [ListTagsForResource](#)
- [ListThemes](#)
- [PutMetadataFlag](#)
- [RefreshToken](#)
- [StartCodegenJob](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateComponent](#)
- [UpdateForm](#)

- [UpdateTheme](#)

CreateComponent

Creates a new component for an Amplify app.

Request Syntax

POST /app/*appId*/environment/*environmentName*/components?clientToken=*clientToken* HTTP/1.1
Content-type: application/json

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{
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      "bindingProperties": {
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        "defaultValue": "string",
        "field": "string",
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            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
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        "userAttribute": "string"
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      "defaultValue": "string",
      "type": "string"
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      ]
    }
  ]
}
```

```
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      "action": "string",
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            "property": "string"
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        "userAttribute": "string",
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    }
  }
}
```

```
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```

```
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```

```
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```

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    "concat": [
      "ComponentProperty"
    ]
  },
  ],
```

```
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      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
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    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
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  },
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      "property": "string"
    }
  },
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    "property": "string"
  },
  "componentName": "string",
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    "ComponentProperty"
  ],
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    "operand": "string",
    "operandType": "string",
```

```
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    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
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        "property": "string"
    },
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        }
    },
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        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
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        "operand": "string",
        "operandType": "string",
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        "property": "string",
        "then": "ComponentProperty"
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    "defaultValue": "string",
```

```
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"userAttribute": "string",
"value": "string"
},
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    "property": "string"
  },
  "bindings": {
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      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
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  ],
  "condition": {
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    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
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  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
```

```
        "value": "string"
      }
    }
  },
  "name": "string",
  "overrides": {
    "string": {
      "string": "string"
    }
  },
  "properties": {
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      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
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          "property": "string"
        }
      },
      "collectionBindingProperties": {
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        "property": "string"
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        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
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      "event": "string",
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```

```
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    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
"sourceId": "string",
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to associate with the component.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: Yes

children

A list of child components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

collectionProperties

The data binding configuration for customizing a component's properties. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

componentType

The component type. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

name

The name of the component

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the component properties that can be overridden to customize an instance of the component.

Type: String to string to string map map

Required: Yes

properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the component data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

variants

A list of the unique variants of this component.

Type: Array of [ComponentVariant](#) objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "bindingProperties": {
    "string": {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ]
      }
    }
  }
}
```

```

    ],
    "slotName": "string",
    "userAttribute": "string"
  },
  "defaultValue": "string",
  "type": "string"
}
},
"children": [
  {
    "children": [
      "ComponentChild"
    ],
    "componentType": "string",
    "events": {
      "string": {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
          "anchor": {
            "bindingProperties": {
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              "property": "string"
            },
            "bindings": {
              "string": {
                "element": "string",
                "property": "string"
              }
            },
            "collectionBindingProperties": {
              "field": "string",
              "property": "string"
            },
            "componentName": "string",
            "concat": [
              "ComponentProperty"
            ],
            "condition": {
              "else": "ComponentProperty",
              "field": "string",
              "operand": "string",
              "operandType": "string",
              "operator": "string",

```

```
    "property": "string",
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  },
  "configured": boolean,
  "defaultValue": "string",
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  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
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      "field": "string",
      "property": "string"
    },
    "componentName": "string",
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      "ComponentProperty"
    ],
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      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
```

```
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        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
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        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
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        "property": "string"
    },
    "componentName": "string",
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        "ComponentProperty"
    ],
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        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
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    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
```

```
    "userAttribute": "string",
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  "id": {
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      "property": "string"
    },
    "bindings": {
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        "property": "string"
      }
    },
    "collectionBindingProperties": {
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      "property": "string"
    },
    "componentName": "string",
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    ],
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      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
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    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "model": "string",
  "state": {
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```

```
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    "property": "string"
  },
  "bindings": {
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      "property": "string"
    }
  },
  "collectionBindingProperties": {
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    "property": "string"
  },
  "componentName": "string",
  "concat": [
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  ],
  "condition": {
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    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
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  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"target": {
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    "property": "string"
  }
}
```

```
  },
  "bindings": {
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      "property": "string"
    }
  },
  "collectionBindingProperties": {
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    "property": "string"
  },
  "componentName": "string",
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  ],
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    "then": "ComponentProperty"
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  "userAttribute": "string",
  "value": "string"
},
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    "property": "string"
  },
  "bindings": {
    "string" : {
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      "property": "string"
    }
  }
}
```

```
    },
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      "operandType": "string",
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      "property": "string"
    },
    "bindings": {
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        "property": "string"
      }
    },
    "collectionBindingProperties": {
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      "property": "string"
    },
    "componentName": "string",
```

```

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      "operandType": "string",
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      "then": "ComponentProperty"
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    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
}
},
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      "property": "string"
    },
    "bindings": {
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        "property": "string"
      }
    },
    "collectionBindingProperties": {
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      "property": "string"
    },
    "componentName": "string",
    "concat": [

```

```

        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
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        "operandType": "string",
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      "userAttribute": "string",
      "value": "string"
    }
  },
  "sourceId": "string"
}
],
"collectionProperties": {
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    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    },
    "sort": [
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        "direction": "string",

```

```

        "field": "string"
      }
    ]
  }
},
"componentType": "string",
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"environmentName": "string",
"events": {
  "string": {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
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          "property": "string"
        },
        "bindings": {
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            "property": "string"
          }
        },
        "collectionBindingProperties": {
          "field": "string",
          "property": "string"
        },
        "componentName": "string",
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          "ComponentProperty"
        ],
        "condition": {
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          "operand": "string",
          "operandType": "string",
          "operator": "string",
          "property": "string",
          "then": "ComponentProperty"
        },
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        "defaultValue": "string",
        "event": "string",

```

```

    "importedValue": "string",
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    "property": "string",
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    "userAttribute": "string",
    "value": "string"
  },
  "fields": {
    "string" : {
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        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string" : {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
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        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
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      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",

```

```
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"id": {
  "bindingProperties": {
    "field": "string",
```

```
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    }
  }
},
```

```
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
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"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  }
}
```

```
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
```

```
"concat": [  
  "ComponentProperty"  
],  
"condition": {  
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  "field": "string",  
  "operand": "string",  
  "operandType": "string",  
  "operator": "string",  
  "property": "string",  
  "then": "ComponentProperty"  
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"event": "string",  
"importedValue": "string",  
"model": "string",  
"property": "string",  
"type": "string",  
"userAttribute": "string",  
"value": "string"  
},  
"url": {  
  "bindingProperties": {  
    "field": "string",  
    "property": "string"  
  },  
  "bindings": {  
    "string" : {  
      "element": "string",  
      "property": "string"  
    }  
  },  
  "collectionBindingProperties": {  
    "field": "string",  
    "property": "string"  
  },  
  "componentName": "string",  
  "concat": [  
    "ComponentProperty"  
  ],  
  "condition": {  
    "else": "ComponentProperty",  
    "field": "string",
```

```

        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
    "string" : {
        "string" : "string"
    }
},
"__properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        },
        "componentName": "string",

```

```
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
}
},
"schemaVersion": "string",
"sourceId": "string",
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the component.

Type: String

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for `bindingProperties`.

Type: String to [ComponentBindingPropertiesValue](#) object map

children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

createdAt

The time that the component was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

id

The unique ID of the component.

Type: String

modifiedAt

The time that the component was modified.

Type: Timestamp

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

schemaVersion

The schema version of the component when it was imported.

Type: String

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+--=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateForm

Creates a new form for an Amplify app.

Request Syntax

```
POST /app/appId/environment/environmentName/forms?clientToken=clientToken HTTP/1.1
Content-type: application/json
```

```
{
  "cta": {
    "cancel": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "clear": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "position": "string",
    "submit": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    }
  },
  "dataType": {
    "dataSourceType": "string",
    "dataTypeName": "string"
  },
  "fields": {
    "string" : {
      "excluded": boolean,
      "inputType": {
        "defaultChecked": boolean,
        "defaultCountryCode": "string",
        "defaultValue": "string",
        "descriptiveText": "string",
        "fileUploaderConfig": {
          "acceptedFileTypes": [ "string" ],
          "accessLevel": "string",
```

```
    "isResumable": boolean,
    "maxFileCount": number,
    "maxSize": number,
    "showThumbnails": boolean
  },
  "isArray": boolean,
  "maxValue": number,
  "minValue": number,
  "name": "string",
  "placeholder": "string",
  "readOnly": boolean,
  "required": boolean,
  "step": number,
  "type": "string",
  "value": "string",
  "valueMappings": {
    "bindingProperties": {
      "string" : {
        "bindingProperties": {
          "model": "string"
        },
        "type": "string"
      }
    },
    "values": [
      {
        "displayValue": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "concat": [
            "FormInputValueProperty"
          ],
          "value": "string"
        },
        "value": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "concat": [
            "FormInputValueProperty"
          ],

```

```
        "value": "string"
      }
    }
  ]
}
},
"label": "string",
"position": { ... },
"validations": [
  {
    "numValues": [ number ],
    "strValues": [ "string" ],
    "type": "string",
    "validationMessage": "string"
  }
]
}
},
"formActionType": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
  "string" : {
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
},
"tags": {
  "string" : "string"
}
}
```

URI Request Parameters

The request uses the following URI parameters.

[appId](#)

The unique ID of the Amplify app to associate with the form.

Required: Yes

[clientToken](#)

The unique client token.

[environmentName](#)

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[cta](#)

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

[dataType](#)

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: Yes

[fields](#)

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: Yes

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: Yes

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

schemaVersion

The schema version of the form.

Type: String

Required: Yes

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: Yes

style

The configuration for the form's style.

Type: [FormStyle](#) object

Required: Yes

tags

One or more key-value pairs to use when tagging the form data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "cta": {
    "cancel": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "clear": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "position": "string",
    "submit": {
      "children": "string",
      "excluded": boolean,
```

```

    "position": { ... }
  }
},
"dataType": {
  "dataSourceType": "string",
  "dataTypeName": "string"
},
"environmentName": "string",
"fields": {
  "string" : {
    "excluded": boolean,
    "inputType": {
      "defaultChecked": boolean,
      "defaultCountryCode": "string",
      "defaultValue": "string",
      "descriptiveText": "string",
      "fileUploaderConfig": {
        "acceptedFileTypes": [ "string" ],
        "accessLevel": "string",
        "isResumable": boolean,
        "maxFileCount": number,
        "maxSize": number,
        "showThumbnails": boolean
      },
      "isArray": boolean,
      "maxValue": number,
      "minValue": number,
      "name": "string",
      "placeholder": "string",
      "readOnly": boolean,
      "required": boolean,
      "step": number,
      "type": "string",
      "value": "string",
      "valueMappings": {
        "bindingProperties": {
          "string" : {
            "bindingProperties": {
              "model": "string"
            },
            "type": "string"
          }
        }
      },
      "values": [

```

```

        {
            "displayValue": {
                "bindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "concat": [
                    "FormInputValueProperty"
                ],
                "value": "string"
            },
            "value": {
                "bindingProperties": {
                    "field": "string",
                    "property": "string"
                },
                "concat": [
                    "FormInputValueProperty"
                ],
                "value": "string"
            }
        }
    ]
}
},
"label": "string",
"position": { ... },
"validations": [
    {
        "numValues": [ number ],
        "strValues": [ "string" ],
        "type": "string",
        "validationMessage": "string"
    }
]
}
},
"formActionType": "string",
"id": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
    "string" : {

```

```
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
},
"tags": {
  "string" : "string"
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the form.

Type: String

cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

id

The unique ID of the form.

Type: String

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

schemaVersion

The schema version of the form when it was imported.

Type: String

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-._:/+]

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateTheme

Creates a theme to apply to the components in an Amplify app.

Request Syntax

```
POST /app/appId/environment/environmentName/themes?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "name": "string",  
  "overrides": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ],  
  "tags": {  
    "string" : "string"  
  },  
  "values": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ]  
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the theme.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the properties that can be overridden to customize an instance of the theme.

Type: Array of [ThemeValues](#) objects

Required: No

tags

One or more key-value pairs to use when tagging the theme data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "createdAt": "string",
  "environmentName": "string",
  "id": "string",
  "modifiedAt": "string",
  "name": "string",
  "overrides": [
    {
      "key": "string",
      "value": {
        "children": [
          "ThemeValues"
        ],
        "value": "string"
      }
    }
  ],
  "tags": {
    "string" : "string"
  },
  "values": [
    {
      "key": "string",
```

```
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID for the Amplify app associated with the theme.

Type: String

createdAt

The time that the theme was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

id

The ID for the theme.

Type: String

modifiedAt

The time that the theme was modified.

Type: Timestamp

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-. _:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

ServiceQuotaExceededException

You exceeded your service quota. Service quotas, also referred to as limits, are the maximum number of service resources or operations for your AWS account.

HTTP Status Code: 402

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteComponent

Deletes a component from an Amplify app.

Request Syntax

```
DELETE /app/appId/environment/environmentName/components/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the component to delete.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

id

The unique ID of the component to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteForm

Deletes a form from an Amplify app.

Request Syntax

```
DELETE /app/appId/environment/environmentName/forms/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the form to delete.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

id

The unique ID of the form to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteTheme

Deletes a theme from an Amplify app.

Request Syntax

```
DELETE /app/appId/environment/environmentName/themes/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the theme to delete.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

id

The unique ID of the theme to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ExchangeCodeForToken

Note

This is for internal use.

Amplify uses this action to exchange an access code for a token.

Request Syntax

```
POST /tokens/provider HTTP/1.1  
Content-type: application/json
```

```
{  
  "clientId": "string",  
  "code": "string",  
  "redirectUri": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

provider

The third-party provider for the token. The only valid value is `figma`.

Valid Values: `figma`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientId

The ID of the client to request the token from.

Type: String

Required: No

code

The access code to send in the request.

Type: String

Required: Yes

redirectUri

The location of the application that will receive the access code.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accessToken": "string",
  "expiresIn": number,
  "refreshToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessToken

The access token.

Type: String

expiresIn

The date and time when the new access token expires.

Type: Integer

refreshToken

The token to use to refresh a previously issued access token that might have expired.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ExportComponents

Exports component configurations to code that is ready to integrate into an Amplify app.

Request Syntax

```
GET /export/app/appId/environment/environmentName/components?nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[appId](#)

The unique ID of the Amplify app to export components to.

Required: Yes

[environmentName](#)

The name of the backend environment that is a part of the Amplify app.

Required: Yes

[nextToken](#)

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "bindingProperties": {
```

```
"string" : {
  "bindingProperties": {
    "bucket": "string",
    "defaultValue": "string",
    "field": "string",
    "key": "string",
    "model": "string",
    "predicates": [
      {
        "and": [
          "Predicate"
        ],
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "or": [
          "Predicate"
        ]
      }
    ],
    "slotName": "string",
    "userAttribute": "string"
  },
  "defaultValue": "string",
  "type": "string"
}
},
"children": [
  {
    "children": [
      "ComponentChild"
    ],
    "componentType": "string",
    "events": {
      "string" : {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
          "anchor": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            }
          }
        }
      }
    }
  }
]
```

```

"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  }
}

```

```
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
}
```

```

    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "id": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",

```

```
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"model": "string",
"state": {
    "componentName": "string",
    "property": "string",
    "set": {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string": {
                "element": "string",
                "property": "string"
            }
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
```

```
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"target": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string": {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    }
},
```

```

    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",

```

```

        "type": "string",
        "userAttribute": "string",
        "value": "string"
    },
    "url": {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        },
        "componentName": "string",
        "concat": [
            "ComponentProperty"
        ],
        "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
        },
        "configured": boolean,
        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
}
}
}

```

```
},
  "name": "string",
  "properties": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "sourceId": "string"
}
```

```

],
"collectionProperties": {
  "string" : {
    "identifiers": [ "string" ],
    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    },
    "sort": [
      {
        "direction": "string",
        "field": "string"
      }
    ]
  }
},
"componentType": "string",
"createdAt": "string",
"environmentName": "string",
"events": {
  "string" : {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
      "anchor": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "bindings": {
          "string" : {
            "element": "string",
            "property": "string"
          }
        }
      }
    }
  },
},

```

```
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
```

```
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
```

```

    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"__id": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  }
}

```

```
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "model": "string",
  "state": {
    "componentName": "string",
    "property": "string",
    "set": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
```

```
        "defaultValue": "string",
        "event": "string",
        "importedValue": "string",
        "model": "string",
        "property": "string",
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
},
"target": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
```

```

    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {

```

```
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
    }
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
    "string" : {
```

```
    "string" : "string"
  }
},
"properties": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
```

```
    "sourceId": "string",
    "tags": {
      "string" : "string"
    },
    "variants": [
      {
        "overrides": {
          "string" : {
            "string" : "string"
          }
        },
        "variantValues": {
          "string" : "string"
        }
      }
    ]
  },
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

Represents the configuration of the exported components.

Type: Array of [Component](#) objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ExportForms

Exports form configurations to code that is ready to integrate into an Amplify app.

Request Syntax

```
GET /export/app/appId/environment/environmentName/forms?nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[appId](#)

The unique ID of the Amplify app to export forms to.

Required: Yes

[environmentName](#)

The name of the backend environment that is a part of the Amplify app.

Required: Yes

[nextToken](#)

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "entities": [
    {
      "appId": "string",
      "cta": {
        "cancel": {
```

```
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "clear": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "position": "string",
  "submit": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  }
},
"dataType": {
  "dataSourceType": "string",
  "dataTypeName": "string"
},
"environmentName": "string",
"fields": {
  "string" : {
    "excluded": boolean,
    "inputType": {
      "defaultChecked": boolean,
      "defaultCountryCode": "string",
      "defaultValue": "string",
      "descriptiveText": "string",
      "fileUploaderConfig": {
        "acceptedFileTypes": [ "string" ],
        "accessLevel": "string",
        "isResumable": boolean,
        "maxFileCount": number,
        "maxSize": number,
        "showThumbnails": boolean
      },
      "isArray": boolean,
      "maxValue": number,
      "minValue": number,
      "name": "string",
      "placeholder": "string",
      "readOnly": boolean,
      "required": boolean,
```

```

    "step": number,
    "type": "string",
    "value": "string",
    "valueMappings": {
      "bindingProperties": {
        "string" : {
          "bindingProperties": {
            "model": "string"
          },
          "type": "string"
        }
      },
      "values": [
        {
          "displayValue": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "concat": [
              "FormInputValueProperty"
            ],
            "value": "string"
          },
          "value": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "concat": [
              "FormInputValueProperty"
            ],
            "value": "string"
          }
        }
      ]
    },
    "label": "string",
    "position": { ... },
    "validations": [
      {
        "numValues": [ number ],
        "strValues": [ "string" ],

```

```

        "type": "string",
        "validationMessage": "string"
      }
    ]
  },
  "formActionType": "string",
  "id": "string",
  "labelDecorator": "string",
  "name": "string",
  "schemaVersion": "string",
  "sectionalElements": {
    "string" : {
      "excluded": boolean,
      "level": number,
      "orientation": "string",
      "position": { ... },
      "text": "string",
      "type": "string"
    }
  },
  "style": {
    "horizontalGap": { ... },
    "outerPadding": { ... },
    "verticalGap": { ... }
  },
  "tags": {
    "string" : "string"
  }
}
],
"nextToken": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

Represents the configuration of the exported forms.

Type: Array of [Form](#) objects

[nextToken](#)

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ExportThemes

Exports theme configurations to code that is ready to integrate into an Amplify app.

Request Syntax

```
GET /export/app/appId/environment/environmentName/themes?nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app to export the themes to.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "createdAt": "string",
```

```
"environmentName": "string",
"id": "string",
"modifiedAt": "string",
"name": "string",
"overrides": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
],
"tags": {
  "string" : "string"
},
"values": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
]
},
"nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

Represents the configuration of the exported themes.

Type: Array of [Theme](#) objects

[nextToken](#)

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetCodegenJob

Returns an existing code generation job.

Request Syntax

```
GET /app/appId/environment/environmentName/codegen-jobs/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app associated with the code generation job.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app associated with the code generation job.

Required: Yes

id

The unique ID of the code generation job.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "appId": "string",
  "asset": {
    "downloadUrl": "string"
  },
  "autoGenerateForms": boolean,
  "createdAt": "string",
  "dependencies": [
    {
      "isSemVer": boolean,
      "name": "string",
      "reason": "string",
      "supportedVersion": "string"
    }
  ],
  "environmentName": "string",
  "features": {
    "isNonModelSupported": boolean,
    "isRelationshipSupported": boolean
  },
  "genericDataSchema": {
    "dataSourceType": "string",
    "enums": {
      "string": {
        "values": [ "string" ]
      }
    }
  },
  "models": {
    "string": {
      "fields": {
        "string": {
          "dataType": "string",
          "dataTypeValue": "string",
          "isArray": boolean,
          "readOnly": boolean,
          "relationship": {
            "associatedFields": [ "string" ],
            "belongsToFieldOnRelatedModel": "string",
            "canUnlinkAssociatedModel": boolean,
            "isHasManyIndex": boolean,
            "relatedJoinFieldName": "string",
            "relatedJoinTableName": "string",
            "relatedModelFields": [ "string" ],
```

```

        "relatedModelName": "string",
        "type": "string"
    },
    "required": boolean
}
},
"isJoinTable": boolean,
"primaryKeys": [ "string" ]
}
},
"nonModels": {
    "string" : {
        "fields": {
            "string" : {
                "dataType": "string",
                "dataTypeValue": "string",
                "isArray": boolean,
                "readOnly": boolean,
                "relationship": {
                    "associatedFields": [ "string" ],
                    "belongsToFieldOnRelatedModel": "string",
                    "canUnlinkAssociatedModel": boolean,
                    "isHasManyIndex": boolean,
                    "relatedJoinFieldName": "string",
                    "relatedJoinTableName": "string",
                    "relatedModelFields": [ "string" ],
                    "relatedModelName": "string",
                    "type": "string"
                },
                "required": boolean
            }
        }
    }
}
},
"id": "string",
"modifiedAt": "string",
"renderConfig": { ... },
"status": "string",
"statusMessage": "string",
"tags": {
    "string" : "string"
}
}

```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

asset

The CodegenJobAsset to use for the code generation job.

Type: [CodegenJobAsset](#) object

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

createdAt

The time that the code generation job was created.

Type: Timestamp

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of [CodegenDependency](#) objects

environmentName

The name of the backend environment associated with the code generation job.

Type: String

features

Describes the feature flags that you can specify for a code generation job.

Type: [CodegenFeatureFlags](#) object

genericDataSchema

Describes the data schema for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

id

The unique ID for the code generation job.

Type: String

modifiedAt

The time that the code generation job was modified.

Type: Timestamp

renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: [CodegenJobRenderConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

status

The status of the code generation job.

Type: String

Valid Values: `in_progress` | `failed` | `succeeded`

statusMessage

The customized status message for the code generation job.

Type: String

tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetComponent

Returns an existing component for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/components/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID of the component.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "bindingProperties": {
    "string" : {
```

```

"bindingProperties": {
  "bucket": "string",
  "defaultValue": "string",
  "field": "string",
  "key": "string",
  "model": "string",
  "predicates": [
    {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    }
  ],
  "slotName": "string",
  "userAttribute": "string"
},
"defaultValue": "string",
"type": "string"
}
},
"children": [
  {
    "children": [
      "ComponentChild"
    ],
    "componentType": "string",
    "events": {
      "string": {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
          "anchor": {
            "bindingProperties": {
              "field": "string",
              "property": "string"
            },
            "bindings": {

```

```

    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  },
},

```

```
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"global": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
```

```

    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "id": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",

```

```
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
```

```
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"target": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
```

```
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"type": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
```

```
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
}
}
```

```
"name": "string",
"properties": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"sourceId": "string"
}
```

```

"collectionProperties": {
  "string" : {
    "identifiers": [ "string" ],
    "model": "string",
    "predicate": {
      "and": [
        "Predicate"
      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    },
    "sort": [
      {
        "direction": "string",
        "field": "string"
      }
    ]
  }
},
"componentType": "string",
"createdAt": "string",
"environmentName": "string",
"events": {
  "string" : {
    "action": "string",
    "bindingEvent": "string",
    "parameters": {
      "anchor": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "bindings": {
          "string" : {
            "element": "string",
            "property": "string"
          }
        }
      },
      "collectionBindingProperties": {

```

```
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"fields": {
  "string" : {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
```

```
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
},
"global": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string": {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
```

```
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"__id": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  }
},
```

```
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
```

```
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
```

```
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
```

```
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
}
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
  "string": {
    "string": "string"
  }
}
```

```
    }
  },
  "properties": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "schemaVersion": "string",
  "sourceId": "string",
```

```
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the component.

Type: String

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for bindingProperties.

Type: String to [ComponentBindingPropertiesValue](#) object map

children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

createdAt

The time that the component was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

id

The unique ID of the component.

Type: String

modifiedAt

The time that the component was modified.

Type: Timestamp

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

schemaVersion

The schema version of the component when it was imported.

Type: String

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . _ : /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetForm

Returns an existing form for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/forms/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID of the form.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "cta": {
    "cancel": {
```

```
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "clear": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  },
  "position": "string",
  "submit": {
    "children": "string",
    "excluded": boolean,
    "position": { ... }
  }
},
"dataType": {
  "dataSourceType": "string",
  "dataTypeName": "string"
},
"environmentName": "string",
"fields": {
  "string" : {
    "excluded": boolean,
    "inputType": {
      "defaultChecked": boolean,
      "defaultCountryCode": "string",
      "defaultValue": "string",
      "descriptiveText": "string",
      "fileUploaderConfig": {
        "acceptedFileTypes": [ "string" ],
        "accessLevel": "string",
        "isResumable": boolean,
        "maxFileCount": number,
        "maxSize": number,
        "showThumbnails": boolean
      },
      "isArray": boolean,
      "maxValue": number,
      "minValue": number,
      "name": "string",
      "placeholder": "string",
      "readOnly": boolean,
      "required": boolean,
```

```
"step": number,
"type": "string",
"value": "string",
"valueMappings": {
  "bindingProperties": {
    "string": {
      "bindingProperties": {
        "model": "string"
      },
      "type": "string"
    }
  },
  "values": [
    {
      "displayValue": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "concat": [
          "FormInputValueProperty"
        ],
        "value": "string"
      },
      "value": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "concat": [
          "FormInputValueProperty"
        ],
        "value": "string"
      }
    }
  ]
},
"label": "string",
"position": { ... },
"validations": [
  {
    "numValues": [ number ],
    "strValues": [ "string" ],
```

```
        "type": "string",
        "validationMessage": "string"
      }
    ]
  }
},
"formActionType": "string",
"formId": "string",
"formLabelDecorator": "string",
"formName": "string",
"formSchemaVersion": "string",
"formSectionalElements": {
  "string" : {
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
},
"tags": {
  "string" : "string"
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the form.

Type: String

cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

id

The unique ID of the form.

Type: String

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

schemaVersion

The schema version of the form when it was imported.

Type: String

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . _ : /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetMetadata

Returns existing metadata for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/metadata HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "features": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

features

Represents the configuration settings for the features metadata.

Type: String to string map

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetTheme

Returns an existing theme for an Amplify app.

Request Syntax

```
GET /app/appId/environment/environmentName/themes/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID of the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the theme.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
```

```
"createdAt": "string",
"environmentName": "string",
"id": "string",
"modifiedAt": "string",
"name": "string",
"overrides": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
],
"tags": {
  "string" : "string"
},
"values": [
  {
    "key": "string",
    "value": {
      "children": [
        "ThemeValues"
      ],
      "value": "string"
    }
  }
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID for the Amplify app associated with the theme.

Type: String

createdAt

The time that the theme was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

id

The ID for the theme.

Type: String

modifiedAt

The time that the theme was modified.

Type: Timestamp

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+ -=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListCodegenJobs

Retrieves a list of code generation jobs for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/codegen-jobs?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of jobs to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "createdAt": "string",
      "environmentName": "string",
      "id": "string",
      "modifiedAt": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of code generation jobs for the Amplify app.

Type: Array of [CodegenJobSummary](#) objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerError

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListComponents

Retrieves a list of components for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/components?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of components to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "entities": [
    {
      "appId": "string",
      "componentType": "string",
      "environmentName": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of components for the Amplify app.

Type: Array of [ComponentSummary](#) objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerError

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListForms

Retrieves a list of forms for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/forms?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of forms to retrieve.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "entities": [
    {
      "appId": "string",
      "dataType": {
        "dataSourceType": "string",
        "dataTypeName": "string"
      },
      "environmentName": "string",
      "formActionType": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of forms for the Amplify app.

Type: Array of [FormSummary](#) objects

nextToken

The pagination token that's included if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerError

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Returns a list of tags for a specified Amazon Resource Name (ARN).

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) to use to list tags.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

A list of tag key value pairs for a specified Amazon Resource Name (ARN).

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListThemes

Retrieves a list of themes for a specified Amplify app and backend environment.

Request Syntax

```
GET /app/appId/environment/environmentName/themes?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

maxResults

The maximum number of theme results to return in the response.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

The token to request the next page of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "entities": [
    {
      "appId": "string",
      "environmentName": "string",
      "id": "string",
      "name": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

entities

The list of themes for the Amplify app.

Type: Array of [ThemeSummary](#) objects

nextToken

The pagination token that's returned if more results are available.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

PutMetadataFlag

Stores the metadata information about a feature on a form.

Request Syntax

```
PUT /app/appId/environment/environmentName/metadata/features/featureName HTTP/1.1  
Content-type: application/json
```

```
{  
  "newValue": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

featureName

The name of the feature associated with the metadata.

Required: Yes

Request Body

The request accepts the following data in JSON format.

newValue

The new information to store.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RefreshToken

Note

This is for internal use.

Amplify uses this action to refresh a previously issued access token that might have expired.

Request Syntax

```
POST /tokens/provider/refresh HTTP/1.1  
Content-type: application/json
```

```
{  
  "clientId": "string",  
  "token": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

provider

The third-party provider for the token. The only valid value is `figma`.

Valid Values: `figma`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientId

The ID of the client to request the token from.

Type: String

Required: No

token

The token to use to refresh a previously issued access token that might have expired.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accessToken": "string",
  "expiresIn": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accessToken

The access token.

Type: String

expiresIn

The date and time when the new access token expires.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartCodegenJob

Starts a code generation job for a specified Amplify app and backend environment.

Request Syntax

```
POST /app/appId/environment/environmentName/codegen-jobs?clientToken=clientToken  
HTTP/1.1
```

```
Content-type: application/json
```

```
{  
  "autoGenerateForms": boolean,  
  "features": {  
    "isNonModelSupported": boolean,  
    "isRelationshipSupported": boolean  
  },  
  "genericDataSchema": {  
    "dataSourceType": "string",  
    "enums": {  
      "string" : {  
        "values": [ "string" ]  
      }  
    },  
    "models": {  
      "string" : {  
        "fields": {  
          "string" : {  
            "dataType": "string",  
            "dataTypeValue": "string",  
            "isArray": boolean,  
            "readOnly": boolean,  
            "relationship": {  
              "associatedFields": [ "string" ],  
              "belongsToFieldOnRelatedModel": "string",  
              "canUnlinkAssociatedModel": boolean,  
              "isHasManyIndex": boolean,  
              "relatedJoinFieldName": "string",  
              "relatedJoinTableName": "string",  
              "relatedModelFields": [ "string" ],  
              "relatedModelName": "string",  
              "type": "string"  
            }  
          },  
          "required": boolean  
        }  
      }  
    }  
  }  
}
```

```
    }
  },
  "isJoinTable": boolean,
  "primaryKeys": [ "string" ]
}
},
"nonModels": {
  "string" : {
    "fields": {
      "string" : {
        "dataType": "string",
        "dataTypeValue": "string",
        "isArray": boolean,
        "readOnly": boolean,
        "relationship": {
          "associatedFields": [ "string" ],
          "belongsToFieldOnRelatedModel": "string",
          "canUnlinkAssociatedModel": boolean,
          "isHasManyIndex": boolean,
          "relatedJoinFieldName": "string",
          "relatedJoinTableName": "string",
          "relatedModelFields": [ "string" ],
          "relatedModelName": "string",
          "type": "string"
        },
        "required": boolean
      }
    }
  }
}
},
"renderConfig": { ... },
"tags": {
  "string" : "string"
}
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

clientToken

The idempotency token used to ensure that the code generation job request completes only once.

environmentName

The name of the backend environment that is a part of the Amplify app.

Required: Yes

Request Body

The request accepts the following data in JSON format.

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

features

The feature flags for a code generation job.

Type: [CodegenFeatureFlags](#) object

Required: No

genericDataSchema

The data schema to use for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

Required: No

renderConfig

The code generation configuration for the codegen job.

Type: [CodegenJobRenderConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

tags

One or more key-value pairs to use when tagging the code generation job data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-._: /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "asset": {
    "downloadUrl": "string"
  },
  "autoGenerateForms": boolean,
  "createdAt": "string",
  "dependencies": [
    {
      "isSemVer": boolean,
      "name": "string",
      "reason": "string",
      "supportedVersion": "string"
    }
  ]
}
```

```

],
"environmentName": "string",
"features": {
  "isNonModelSupported": boolean,
  "isRelationshipSupported": boolean
},
"genericDataSchema": {
  "dataSourceType": "string",
  "enums": {
    "string": {
      "values": [ "string" ]
    }
  },
  "models": {
    "string": {
      "fields": {
        "string": {
          "dataType": "string",
          "dataTypeValue": "string",
          "isArray": boolean,
          "readOnly": boolean,
          "relationship": {
            "associatedFields": [ "string" ],
            "belongsToFieldOnRelatedModel": "string",
            "canUnlinkAssociatedModel": boolean,
            "isHasManyIndex": boolean,
            "relatedJoinFieldName": "string",
            "relatedJoinTableName": "string",
            "relatedModelFields": [ "string" ],
            "relatedModelName": "string",
            "type": "string"
          },
          "required": boolean
        }
      },
      "isJoinTable": boolean,
      "primaryKeys": [ "string" ]
    }
  },
  "nonModels": {
    "string": {
      "fields": {
        "string": {
          "dataType": "string",

```

```
    "dataTypeValue": "string",
    "isArray": boolean,
    "readOnly": boolean,
    "relationship": {
      "associatedFields": [ "string" ],
      "belongsToFieldOnRelatedModel": "string",
      "canUnlinkAssociatedModel": boolean,
      "isHasManyIndex": boolean,
      "relatedJoinFieldName": "string",
      "relatedJoinTableName": "string",
      "relatedModelFields": [ "string" ],
      "relatedModelName": "string",
      "type": "string"
    },
    "required": boolean
  }
}
}
},
"renderConfig": { ... },
"status": "string",
"statusMessage": "string",
"tags": {
  "string" : "string"
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[appld](#)

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

asset

The CodegenJobAsset to use for the code generation job.

Type: [CodegenJobAsset](#) object

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

createdAt

The time that the code generation job was created.

Type: Timestamp

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of [CodegenDependency](#) objects

environmentName

The name of the backend environment associated with the code generation job.

Type: String

features

Describes the feature flags that you can specify for a code generation job.

Type: [CodegenFeatureFlags](#) object

genericDataSchema

Describes the data schema for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

id

The unique ID for the code generation job.

Type: String

modifiedAt

The time that the code generation job was modified.

Type: Timestamp

renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: [CodegenJobRenderConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

status

The status of the code generation job.

Type: String

Valid Values: `in_progress` | `failed` | `succeeded`

statusMessage

The customized status message for the code generation job.

Type: String

tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+--=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Tags the resource with a tag key and value.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) to use to tag a resource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A list of tag key value pairs for a specified Amazon Resource Name (ARN).

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+-._: /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Untags a resource with a specified Amazon Resource Name (ARN).

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) to use to untag a resource.

Required: Yes

tagKeys

The tag keys to use to untag a resource.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: (?!aws:)[a-zA-Z+-. _:/]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceNotFoundException

The requested resource does not exist, or access was denied.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

UnauthorizedException

You don't have permission to perform this operation.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateComponent

Updates an existing component.

Request Syntax

```
PATCH /app/appId/environment/environmentName/components/id?clientToken=clientToken
HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "bindingProperties": {
    "string" : {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ],
        "slotName": "string",
        "userAttribute": "string"
      },
      "defaultValue": "string",
      "type": "string"
    }
  },
  "children": [
    {
      "children": [
```

```
    "ComponentChild"
  ],
  "componentType": "string",
  "events": {
    "string" : {
      "action": "string",
      "bindingEvent": "string",
      "parameters": {
        "anchor": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "bindings": {
            "string" : {
              "element": "string",
              "property": "string"
            }
          },
          "collectionBindingProperties": {
            "field": "string",
            "property": "string"
          },
          "componentName": "string",
          "concat": [
            "ComponentProperty"
          ],
          "condition": {
            "else": "ComponentProperty",
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
          },
          "configured": boolean,
          "defaultValue": "string",
          "event": "string",
          "importedValue": "string",
          "model": "string",
          "property": "string",
          "type": "string",
          "userAttribute": "string",
```

```
    "value": "string"
  },
  "fields": {
    "string": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      },
      "collectionBindingProperties": {
        "field": "string",
        "property": "string"
      },
      "componentName": "string",
      "concat": [
        "ComponentProperty"
      ],
      "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
      },
      "configured": boolean,
      "defaultValue": "string",
      "event": "string",
      "importedValue": "string",
      "model": "string",
      "property": "string",
      "type": "string",
      "userAttribute": "string",
      "value": "string"
    }
  },
  "global": {
    "bindingProperties": {
```

```
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"__id": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
```

```
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "model": "string",
  "state": {
    "componentName": "string",
    "property": "string",
    "set": {
      "bindingProperties": {
        "field": "string",
        "property": "string"
      },
      "bindings": {
        "string": {
          "element": "string",
          "property": "string"
        }
      }
    }
  }
}
```

```
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string" : {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
}
```

```

    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",

```

```
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"url": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
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        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
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    }
}
```

```

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        ]
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  },
}
```

```
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```

```
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        "property": "string"
      }
    },
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      "property": "string"
    },
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```

```
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        "property": "string"
      }
    }
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    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
```

```
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    "property": "string",
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    "userAttribute": "string",
    "value": "string"
  }
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    }
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    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
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    "field": "string",
    "operand": "string",
```

```
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    "property": "string"
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    "property": "string",
    "then": "ComponentProperty"
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    "property": "string"
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  "defaultValue": "string",
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  "importedValue": "string",
  "model": "string",
  "property": "string",
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```

```
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}
},
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    "property": "string"
},
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    "operandType": "string",
    "operator": "string",
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      }
    },
    "variantValues": {
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    }
  }
]
}
```

URI Request Parameters

The request uses the following URI parameters.

[appId](#)

The unique ID for the Amplify app.

Required: Yes

[clientToken](#)

The unique client token.

[environmentName](#)

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the component.

Required: Yes

Request Body

The request accepts the following data in JSON format.

bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: No

children

The components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

collectionProperties

The configuration for binding a component's properties to a data model. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

id

The unique ID of the component to update.

Type: String

Required: No

name

The name of the component to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overridden to customize the component.

Type: String to string to string map map

Required: No

properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

[sourceId](#)

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

[variants](#)

A list of the unique variants of the main component being updated.

Type: Array of [ComponentVariant](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "appId": "string",
  "bindingProperties": {
    "string": {
      "bindingProperties": {
        "bucket": "string",
        "defaultValue": "string",
        "field": "string",
        "key": "string",
        "model": "string",
        "predicates": [
          {
            "and": [
              "Predicate"
            ],
            "field": "string",
            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "or": [
              "Predicate"
            ]
          }
        ]
      }
    }
  }
}
```

```

    ]
  }
],
  "slotName": "string",
  "userAttribute": "string"
},
"defaultValue": "string",
"type": "string"
}
},
"children": [
  {
    "children": [
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    ],
    "componentType": "string",
    "events": {
      "string": {
        "action": "string",
        "bindingEvent": "string",
        "parameters": {
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              }
            },
            "collectionBindingProperties": {
              "field": "string",
              "property": "string"
            },
            "componentName": "string",
            "concat": [
              "ComponentProperty"
            ],
            "condition": {
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              "field": "string",
              "operand": "string",

```

```

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        "operator": "string",
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            "field": "string",
            "property": "string"
        },
        "bindings": {
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                "property": "string"
            }
        },
        "collectionBindingProperties": {
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            "property": "string"
        },
        "componentName": "string",
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        "condition": {
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            "operand": "string",
            "operandType": "string",
            "operator": "string",
            "property": "string",
            "then": "ComponentProperty"
        }
    },

```

```
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    "userAttribute": "string",
    "value": "string"
  }
},
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    "property": "string"
  },
  "bindings": {
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      "property": "string"
    }
  },
  "collectionBindingProperties": {
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    "property": "string"
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  ],
  "condition": {
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    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
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```

```
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    "property": "string"
  },
  "bindings": {
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      "property": "string"
    }
  },
  "collectionBindingProperties": {
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    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
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  "model": "string",
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  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
"model": "string",
```

```
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      "property": "string"
    },
    "bindings": {
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        "property": "string"
      }
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      "property": "string"
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    ],
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      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
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    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"target": {
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```

```
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  },
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      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
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    "ComponentProperty"
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    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
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  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
},
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    "field": "string",
    "property": "string"
  },
  "bindings": {
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      "element": "string",
```

```

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      }
    },
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    },
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      "operandType": "string",
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    "property": "string",
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    "userAttribute": "string",
    "value": "string"
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    },
    "bindings": {
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        "property": "string"
      }
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  }
}

```

```

    },
    "componentName": "string",
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      "ComponentProperty"
    ],
    "condition": {
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      "operandType": "string",
      "operator": "string",
      "property": "string",
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    "userAttribute": "string",
    "value": "string"
  }
}
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      "property": "string"
    },
    "bindings": {
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        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    }
  },

```

```

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],
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      ],
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "or": [
        "Predicate"
      ]
    ]
  },
  "sort": [

```

```
        {
            "direction": "string",
            "field": "string"
        }
    ]
}
},
"componentType": "string",
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                    "property": "string"
                },
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                        "property": "string"
                    }
                },
                "collectionBindingProperties": {
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                    "property": "string"
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                ],
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                    "operand": "string",
                    "operandType": "string",
                    "operator": "string",
                    "property": "string",
                    "then": "ComponentProperty"
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```

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      "property": "string"
    },
    "bindings": {
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        "property": "string"
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      "property": "string"
    },
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      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
```

```
        "type": "string",
        "userAttribute": "string",
        "value": "string"
    }
},
"global": {
    "bindingProperties": {
        "field": "string",
        "property": "string"
    },
    "bindings": {
        "string" : {
            "element": "string",
            "property": "string"
        }
    },
    "collectionBindingProperties": {
        "field": "string",
        "property": "string"
    },
    "componentName": "string",
    "concat": [
        "ComponentProperty"
    ],
    "condition": {
        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
},
"__id": {
```

```
"bindingProperties": {
  "field": "string",
  "property": "string"
},
"bindings": {
  "string" : {
    "element": "string",
    "property": "string"
  }
},
"collectionBindingProperties": {
  "field": "string",
  "property": "string"
},
"componentName": "string",
"concat": [
  "ComponentProperty"
],
"condition": {
  "else": "ComponentProperty",
  "field": "string",
  "operand": "string",
  "operandType": "string",
  "operator": "string",
  "property": "string",
  "then": "ComponentProperty"
},
"configured": boolean,
"defaultValue": "string",
"event": "string",
"importedValue": "string",
"model": "string",
"property": "string",
"type": "string",
"userAttribute": "string",
"value": "string"
},
"model": "string",
"state": {
  "componentName": "string",
  "property": "string",
  "set": {
    "bindingProperties": {
      "field": "string",
```

```
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
      "property": "string"
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  },
  "componentName": "string",
  "concat": [
    "ComponentProperty"
  ],
  "condition": {
    "else": "ComponentProperty",
    "field": "string",
    "operand": "string",
    "operandType": "string",
    "operator": "string",
    "property": "string",
    "then": "ComponentProperty"
  },
  "configured": boolean,
  "defaultValue": "string",
  "event": "string",
  "importedValue": "string",
  "model": "string",
  "property": "string",
  "type": "string",
  "userAttribute": "string",
  "value": "string"
}
},
"target": {
  "bindingProperties": {
    "field": "string",
    "property": "string"
  },
  "bindings": {
    "string": {
      "element": "string",
```

```
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "type": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string" : {
        "element": "string",
        "property": "string"
      }
    }
  },
  "collectionBindingProperties": {
    "field": "string",
    "property": "string"
  }
}
```

```
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  },
  "url": {
    "bindingProperties": {
      "field": "string",
      "property": "string"
    },
    "bindings": {
      "string": {
        "element": "string",
        "property": "string"
      }
    },
    "collectionBindingProperties": {
      "field": "string",
      "property": "string"
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
```

```

        "else": "ComponentProperty",
        "field": "string",
        "operand": "string",
        "operandType": "string",
        "operator": "string",
        "property": "string",
        "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
}
}
}
},
"__id": "string",
"__modifiedAt": "string",
"__name": "string",
"__overrides": {
    "string" : {
        "string" : "string"
    }
},
"__properties": {
    "string" : {
        "bindingProperties": {
            "field": "string",
            "property": "string"
        },
        "bindings": {
            "string" : {
                "element": "string",
                "property": "string"
            }
        },
        "collectionBindingProperties": {
            "field": "string",
            "property": "string"
        }
    }
}

```

```
    },
    "componentName": "string",
    "concat": [
      "ComponentProperty"
    ],
    "condition": {
      "else": "ComponentProperty",
      "field": "string",
      "operand": "string",
      "operandType": "string",
      "operator": "string",
      "property": "string",
      "then": "ComponentProperty"
    },
    "configured": boolean,
    "defaultValue": "string",
    "event": "string",
    "importedValue": "string",
    "model": "string",
    "property": "string",
    "type": "string",
    "userAttribute": "string",
    "value": "string"
  }
},
"schemaVersion": "string",
"sourceId": "string",
"tags": {
  "string" : "string"
},
"variants": [
  {
    "overrides": {
      "string" : {
        "string" : "string"
      }
    },
    "variantValues": {
      "string" : "string"
    }
  }
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the component.

Type: String

bindingProperties

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for `bindingProperties`.

Type: String to [ComponentBindingPropertiesValue](#) object map

children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

createdAt

The time that the component was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

id

The unique ID of the component.

Type: String

modifiedAt

The time that the component was modified.

Type: Timestamp

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

schemaVersion

The schema version of the component when it was imported.

Type: String

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateForm

Updates an existing form.

Request Syntax

```
PATCH /app/appId/environment/environmentName/forms/id?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "cta": {  
    "cancel": {  
      "children": "string",  
      "excluded": boolean,  
      "position": { ... }  
    },  
    "clear": {  
      "children": "string",  
      "excluded": boolean,  
      "position": { ... }  
    },  
    "position": "string",  
    "submit": {  
      "children": "string",  
      "excluded": boolean,  
      "position": { ... }  
    }  
  },  
  "dataType": {  
    "dataSourceType": "string",  
    "dataTypeName": "string"  
  },  
  "fields": {  
    "string" : {  
      "excluded": boolean,  
      "inputType": {  
        "defaultChecked": boolean,  
        "defaultCountryCode": "string",  
        "defaultValue": "string",  
        "descriptiveText": "string",  
        "fileUploaderConfig": {  
          "acceptedFileTypes": [ "string" ],  
          "accessLevel": "string",
```

```
    "isResumable": boolean,
    "maxFileCount": number,
    "maxSize": number,
    "showThumbnails": boolean
  },
  "isArray": boolean,
  "maxValue": number,
  "minValue": number,
  "name": "string",
  "placeholder": "string",
  "readOnly": boolean,
  "required": boolean,
  "step": number,
  "type": "string",
  "value": "string",
  "valueMappings": {
    "bindingProperties": {
      "string" : {
        "bindingProperties": {
          "model": "string"
        },
        "type": "string"
      }
    },
    "values": [
      {
        "displayValue": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "concat": [
            "FormInputValueProperty"
          ],
          "value": "string"
        },
        "value": {
          "bindingProperties": {
            "field": "string",
            "property": "string"
          },
          "concat": [
            "FormInputValueProperty"
          ],

```

```
        "value": "string"
      }
    }
  ]
}
},
"label": "string",
"position": { ... },
"validations": [
  {
    "numValues": [ number ],
    "strValues": [ "string" ],
    "type": "string",
    "validationMessage": "string"
  }
]
}
},
"formActionType": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
  "string" : {
    "excluded": boolean,
    "level": number,
    "orientation": "string",
    "position": { ... },
    "text": "string",
    "type": "string"
  }
},
"style": {
  "horizontalGap": { ... },
  "outerPadding": { ... },
  "verticalGap": { ... }
}
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the form.

Required: Yes

Request Body

The request accepts the following data in JSON format.

cta

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: No

fields

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: No

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

schemaVersion

The schema version of the form.

Type: String

Required: No

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: No

style

The configuration for the form's style.

Type: [FormStyle](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "appId": "string",
  "cta": {
    "cancel": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "clear": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    },
    "position": "string",
    "submit": {
      "children": "string",
      "excluded": boolean,
      "position": { ... }
    }
  },
  "dataType": {
    "dataSourceType": "string",
    "dataTypeName": "string"
  },
  "environmentName": "string",
  "fields": {
    "string" : {
      "excluded": boolean,
      "inputType": {
        "defaultChecked": boolean,
```

```
"defaultCountryCode": "string",
"defaultValue": "string",
"descriptiveText": "string",
"fileUploaderConfig": {
  "acceptedFileTypes": [ "string" ],
  "accessLevel": "string",
  "isResumable": boolean,
  "maxFileCount": number,
  "maxSize": number,
  "showThumbnails": boolean
},
"isArray": boolean,
"maxValue": number,
"minValue": number,
"name": "string",
"placeholder": "string",
"readOnly": boolean,
"required": boolean,
"step": number,
"type": "string",
"value": "string",
"valueMappings": {
  "bindingProperties": {
    "string" : {
      "bindingProperties": {
        "model": "string"
      },
      "type": "string"
    }
  },
  "values": [
    {
      "displayValue": {
        "bindingProperties": {
          "field": "string",
          "property": "string"
        },
        "concat": [
          "FormInputValueProperty"
        ],
        "value": "string"
      },
      "value": {
        "bindingProperties": {
```

```

        "field": "string",
        "property": "string"
    },
    "concat": [
        "FormInputValueProperty"
    ],
    "value": "string"
}
}
]
}
},
"label": "string",
"position": { ... },
"validations": [
    {
        "numValues": [ number ],
        "strValues": [ "string" ],
        "type": "string",
        "validationMessage": "string"
    }
]
}
},
"formActionType": "string",
"id": "string",
"labelDecorator": "string",
"name": "string",
"schemaVersion": "string",
"sectionalElements": {
    "string" : {
        "excluded": boolean,
        "level": number,
        "orientation": "string",
        "position": { ... },
        "text": "string",
        "type": "string"
    }
},
"style": {
    "horizontalGap": { ... },
    "outerPadding": { ... },
    "verticalGap": { ... }
},

```

```
"tags": {  
  "string" : "string"  
}  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID of the Amplify app associated with the form.

Type: String

cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

id

The unique ID of the form.

Type: String

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

schemaVersion

The schema version of the form when it was imported.

Type: String

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateTheme

Updates an existing theme.

Request Syntax

```
PATCH /app/appId/environment/environmentName/themes/id?clientToken=clientToken HTTP/1.1  
Content-type: application/json
```

```
{  
  "id": "string",  
  "name": "string",  
  "overrides": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ],  
  "values": [  
    {  
      "key": "string",  
      "value": {  
        "children": [  
          "ThemeValues"  
        ],  
        "value": "string"  
      }  
    }  
  ]  
}
```

URI Request Parameters

The request uses the following URI parameters.

appId

The unique ID for the Amplify app.

Required: Yes

clientToken

The unique client token.

environmentName

The name of the backend environment that is part of the Amplify app.

Required: Yes

id

The unique ID for the theme.

Required: Yes

Request Body

The request accepts the following data in JSON format.

id

The unique ID of the theme to update.

Type: String

Required: No

name

The name of the theme to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overridden to customize the theme.

Type: Array of [ThemeValues](#) objects

Required: No

values

A list of key-value pairs that define the theme's properties.

Type: Array of [ThemeValues](#) objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "appId": "string",
  "createdAt": "string",
  "environmentName": "string",
  "id": "string",
  "modifiedAt": "string",
  "name": "string",
  "overrides": [
    {
      "key": "string",
      "value": {
        "children": [
          "ThemeValues"
        ],
        "value": "string"
      }
    }
  ],
  "tags": {
    "string" : "string"
  },
  "values": [
    {
      "key": "string",
      "value": {
        "children": [
```

```
    "ThemeValues"  
  ],  
  "value": "string"  
}  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

appId

The unique ID for the Amplify app associated with the theme.

Type: String

createdAt

The time that the theme was created.

Type: Timestamp

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

id

The ID for the theme.

Type: String

modifiedAt

The time that the theme was modified.

Type: Timestamp

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . _ : /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

InternalServerErrorException

An internal error has occurred. Please retry your request.

HTTP Status Code: 500

InvalidParameterException

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

ResourceConflictException

The resource specified in the request conflicts with an existing resource.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS Amplify UI Builder API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [ActionParameters](#)
- [ApiConfiguration](#)
- [CodegenDependency](#)
- [CodegenFeatureFlags](#)
- [CodegenGenericDataEnum](#)
- [CodegenGenericDataField](#)
- [CodegenGenericDataModel](#)
- [CodegenGenericDataNonModel](#)
- [CodegenGenericDataRelationshipType](#)
- [CodegenJob](#)
- [CodegenJobAsset](#)
- [CodegenJobGenericDataSchema](#)
- [CodegenJobRenderConfig](#)
- [CodegenJobSummary](#)
- [Component](#)
- [ComponentBindingPropertiesValue](#)
- [ComponentBindingPropertiesValueProperties](#)
- [ComponentChild](#)
- [ComponentConditionProperty](#)
- [ComponentDataConfiguration](#)

- [ComponentEvent](#)
- [ComponentProperty](#)
- [ComponentPropertyBindingProperties](#)
- [ComponentSummary](#)
- [ComponentVariant](#)
- [CreateComponentData](#)
- [CreateFormData](#)
- [CreateThemeData](#)
- [DataStoreRenderConfig](#)
- [ExchangeCodeForTokenRequestBody](#)
- [FieldConfig](#)
- [FieldInputConfig](#)
- [FieldPosition](#)
- [FieldValidationConfiguration](#)
- [FileUploaderFieldConfig](#)
- [Form](#)
- [FormBindingElement](#)
- [FormButton](#)
- [FormCTA](#)
- [FormDataTypeConfig](#)
- [FormInputBindingPropertiesValue](#)
- [FormInputBindingPropertiesValueProperties](#)
- [FormInputValueProperty](#)
- [FormInputValuePropertyBindingProperties](#)
- [FormStyle](#)
- [FormStyleConfig](#)
- [FormSummary](#)
- [GraphQLRenderConfig](#)
- [MutationActionSetStateParameter](#)
- [NoApiRenderConfig](#)

- [Predicate](#)
- [PutMetadataFlagBody](#)
- [ReactStartCodegenJobData](#)
- [RefreshTokenRequestBody](#)
- [SectionalElement](#)
- [SortProperty](#)
- [StartCodegenJobData](#)
- [Theme](#)
- [ThemeSummary](#)
- [ThemeValue](#)
- [ThemeValues](#)
- [UpdateComponentData](#)
- [UpdateFormData](#)
- [UpdateThemeData](#)
- [ValueMapping](#)
- [ValueMappings](#)

ActionParameters

Represents the event action configuration for an element of a `Component` or `ComponentChild`. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components. `ActionParameters` defines the action that is performed when an event occurs on the component.

Contents

anchor

The HTML anchor link to the location to open. Specify this value for a navigation action.

Type: [ComponentProperty](#) object

Required: No

fields

A dictionary of key-value pairs mapping Amplify Studio properties to fields in a data model. Use when the action performs an operation on an Amplify DataStore model.

Type: String to [ComponentProperty](#) object map

Required: No

global

Specifies whether the user should be signed out globally. Specify this value for an auth sign out action.

Type: [ComponentProperty](#) object

Required: No

id

The unique ID of the component that the `ActionParameters` apply to.

Type: [ComponentProperty](#) object

Required: No

model

The name of the data model. Use when the action performs an operation on an Amplify DataStore model.

Type: String

Required: No

state

A key-value pair that specifies the state property name and its initial value.

Type: [MutationActionSetStateParameter](#) object

Required: No

target

The element within the same component to modify when the action occurs.

Type: [ComponentProperty](#) object

Required: No

type

The type of navigation action. Valid values are `url` and `anchor`. This value is required for a navigation action.

Type: [ComponentProperty](#) object

Required: No

url

The URL to the location to open. Specify this value for a navigation action.

Type: [ComponentProperty](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ApiConfiguration

Describes the API configuration for a code generation job.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

dataStoreConfig

The configuration for an application using DataStore APIs.

Type: [DataStoreRenderConfig](#) object

Required: No

graphqlConfig

The configuration for an application using GraphQL APIs.

Type: [GraphQLRenderConfig](#) object

Required: No

noApiConfig

The configuration for an application with no API being used.

Type: [NoApiRenderConfig](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenDependency

Dependency package that may be required for the project code to run.

Contents

isSemVer

Determines if the dependency package is using Semantic versioning. If set to true, it indicates that the dependency package uses Semantic versioning.

Type: Boolean

Required: No

name

Name of the dependency package.

Type: String

Required: No

reason

Indicates the reason to include the dependency package in your project code.

Type: String

Required: No

supportedVersion

Indicates the version of the supported dependency package.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenFeatureFlags

Describes the feature flags that you can specify for a code generation job.

Contents

isNonModelSupported

Specifies whether a code generation job supports non models.

Type: Boolean

Required: No

isRelationshipSupported

Specifies whether a code generation job supports data relationships.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenGenericDataEnum

Describes the enums in a generic data schema.

Contents

values

The list of enum values in the generic data schema.

Type: Array of strings

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenGenericDataField

Describes a field in a generic data schema.

Contents

dataType

The data type for the generic data field.

Type: String

Valid Values: ID | String | Int | Float | AWSDate | AWSTime | AWSDateTime | AWSTimestamp | AWSEmail | AWSURL | AWSIPAddress | Boolean | AWSJSON | AWSPhone | Enum | Model | NonModel

Required: Yes

dataTypeValue

The value of the data type for the generic data field.

Type: String

Required: Yes

isArray

Specifies whether the generic data field is an array.

Type: Boolean

Required: Yes

readOnly

Specifies whether the generic data field is read-only.

Type: Boolean

Required: Yes

required

Specifies whether the generic data field is required.

Type: Boolean

Required: Yes

relationship

The relationship of the generic data schema.

Type: [CodegenGenericDataRelationshipType](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenGenericDataModel

Describes a model in a generic data schema.

Contents

fields

The fields in the generic data model.

Type: String to [CodegenGenericDataField](#) object map

Required: Yes

primaryKeys

The primary keys of the generic data model.

Type: Array of strings

Required: Yes

isJoinTable

Specifies whether the generic data model is a join table.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenGenericDataNonModel

Describes a non-model in a generic data schema.

Contents

fields

The fields in a generic data schema non model.

Type: String to [CodegenGenericDataField](#) object map

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenGenericDataRelationshipType

Describes the relationship between generic data models.

Contents

relatedModelName

The name of the related model in the data relationship.

Type: String

Required: Yes

type

The data relationship type.

Type: String

Valid Values: HAS_MANY | HAS_ONE | BELONGS_TO

Required: Yes

associatedFields

The associated fields of the data relationship.

Type: Array of strings

Required: No

belongsToFieldOnRelatedModel

The value of the belongsTo field on the related data model.

Type: String

Required: No

canUnlinkAssociatedModel

Specifies whether the relationship can unlink the associated model.

Type: Boolean

Required: No

isHasManyIndex

Specifies whether the @index directive is supported for a hasMany data relationship.

Type: Boolean

Required: No

relatedJoinFieldName

The name of the related join field in the data relationship.

Type: String

Required: No

relatedJoinTableName

The name of the related join table in the data relationship.

Type: String

Required: No

relatedModelFields

The related model fields in the data relationship.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenJob

Describes the configuration for a code generation job that is associated with an Amplify app.

Contents

appId

The ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

environmentName

The name of the backend environment associated with the code generation job.

Type: String

Required: Yes

id

The unique ID for the code generation job.

Type: String

Required: Yes

asset

The CodegenJobAsset to use for the code generation job.

Type: [CodegenJobAsset](#) object

Required: No

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

createdAt

The time that the code generation job was created.

Type: Timestamp

Required: No

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: Array of [CodegenDependency](#) objects

Required: No

features

Describes the feature flags that you can specify for a code generation job.

Type: [CodegenFeatureFlags](#) object

Required: No

genericDataSchema

Describes the data schema for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

Required: No

modifiedAt

The time that the code generation job was modified.

Type: Timestamp

Required: No

renderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Type: [CodegenJobRenderConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

status

The status of the code generation job.

Type: String

Valid Values: `in_progress` | `failed` | `succeeded`

Required: No

statusMessage

The customized status message for the code generation job.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the code generation job.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenJobAsset

Describes an asset for a code generation job.

Contents

downloadUrl

The URL to use to access the asset.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenJobGenericDataSchema

Describes the data schema for a code generation job.

Contents

dataSourceType

The type of the data source for the schema. Currently, the only valid value is an Amplify `DataStore`.

Type: String

Valid Values: `DataStore`

Required: Yes

enums

The name of a `CodegenGenericDataEnum`.

Type: String to [CodegenGenericDataEnum](#) object map

Required: Yes

models

The name of a `CodegenGenericDataModel`.

Type: String to [CodegenGenericDataModel](#) object map

Required: Yes

nonModels

The name of a `CodegenGenericDataNonModel`.

Type: String to [CodegenGenericDataNonModel](#) object map

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenJobRenderConfig

Describes the configuration information for rendering the UI component associated with the code generation job.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

react

The name of the ReactStartCodegenJobData object.

Type: [ReactStartCodegenJobData](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodegenJobSummary

A summary of the basic information about the code generation job.

Contents

appId

The unique ID of the Amplify app associated with the code generation job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: d[a-z0-9]+

Required: Yes

environmentName

The name of the backend environment associated with the code generation job.

Type: String

Required: Yes

id

The unique ID for the code generation job summary.

Type: String

Required: Yes

createdAt

The time that the code generation job summary was created.

Type: Timestamp

Required: No

modifiedAt

The time that the code generation job summary was modified.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Component

Contains the configuration settings for a user interface (UI) element for an Amplify app. A component is configured as a primary, stand-alone UI element. Use `ComponentChild` to configure an instance of a `Component`. A `ComponentChild` instance inherits the configuration of the main `Component`.

Contents

`appId`

The unique ID of the Amplify app associated with the component.

Type: String

Required: Yes

`bindingProperties`

The information to connect a component's properties to data at runtime. You can't specify tags as a valid property for `bindingProperties`.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: Yes

`componentType`

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

`createdAt`

The time that the component was created.

Type: Timestamp

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

id

The unique ID of the component.

Type: String

Required: Yes

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the component's properties that can be overridden in a customized instance of the component. You can't specify tags as a valid property for overrides.

Type: String to string to string map map

Required: Yes

properties

Describes the component's properties. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

variants

A list of the component's variants. A variant is a unique style configuration of a main component.

Type: Array of [ComponentVariant](#) objects

Required: Yes

children

A list of the component's `ComponentChild` instances.

Type: Array of [ComponentChild](#) objects

Required: No

collectionProperties

The data binding configuration for the component's properties. Use this for a collection component. You can't specify tags as a valid property for `collectionProperties`.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

events

Describes the events that can be raised on the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

modifiedAt

The time that the component was modified.

Type: Timestamp

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the component.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentBindingPropertiesValue

Represents the data binding configuration for a component at runtime. You can use `ComponentBindingPropertiesValue` to add exposed properties to a component to allow different values to be entered when a component is reused in different places in an app.

Contents

bindingProperties

Describes the properties to customize with data at runtime.

Type: [ComponentBindingPropertiesValueProperties](#) object

Required: No

defaultValue

The default value of the property.

Type: String

Required: No

type

The property type.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentBindingPropertiesValueProperties

Represents the data binding configuration for a specific property using data stored in AWS. For AWS connected properties, you can bind a property to data stored in an Amazon S3 bucket, an Amplify DataStore model or an authenticated user attribute.

Contents

bucket

An Amazon S3 bucket.

Type: String

Required: No

defaultValue

The default value to assign to the property.

Type: String

Required: No

field

The field to bind the data to.

Type: String

Required: No

key

The storage key for an Amazon S3 bucket.

Type: String

Required: No

model

An Amplify DataStore model.

Type: String

Required: No

predicates

A list of predicates for binding a component's properties to data.

Type: Array of [Predicate](#) objects

Required: No

slotName

The name of a component slot.

Type: String

Required: No

userAttribute

An authenticated user attribute.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentChild

A nested UI configuration within a parent Component.

Contents

componentType

The type of the child component.

Type: String

Required: Yes

name

The name of the child component.

Type: String

Required: Yes

properties

Describes the properties of the child component. You can't specify tags as a valid property for properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

children

The list of ComponentChild instances for this component.

Type: Array of [ComponentChild](#) objects

Required: No

events

Describes the events that can be raised on the child component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

sourceId

The unique ID of the child component in its original source system, such as Figma.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentConditionProperty

Represents a conditional expression to set a component property. Use `ComponentConditionProperty` to set a property to different values conditionally, based on the value of another property.

Contents

else

The value to assign to the property if the condition is not met.

Type: [ComponentProperty](#) object

Required: No

field

The name of a field. Specify this when the property is a data model.

Type: String

Required: No

operand

The value of the property to evaluate.

Type: String

Required: No

operandType

The type of the property to evaluate.

Type: String

Required: No

operator

The operator to use to perform the evaluation, such as `eq` to represent equals.

Type: String

Required: No

property

The name of the conditional property.

Type: String

Required: No

then

The value to assign to the property if the condition is met.

Type: [ComponentProperty](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentDataConfiguration

Describes the configuration for binding a component's properties to data.

Contents

model

The name of the data model to use to bind data to a component.

Type: String

Required: Yes

identifiers

A list of IDs to use to bind data to a component. Use this property to bind specifically chosen data, rather than data retrieved from a query.

Type: Array of strings

Required: No

predicate

Represents the conditional logic to use when binding data to a component. Use this property to retrieve only a subset of the data in a collection.

Type: [Predicate](#) object

Required: No

sort

Describes how to sort the component's properties.

Type: Array of [SortProperty](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentEvent

Describes the configuration of an event. You can bind an event and a corresponding action to a Component or a ComponentChild. A button click is an example of an event.

Contents

action

The action to perform when a specific event is raised.

Type: String

Required: No

bindingEvent

Binds an event to an action on a component. When you specify a bindingEvent, the event is called when the action is performed.

Type: String

Required: No

parameters

Describes information about the action.

Type: [ActionParameters](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentProperty

Describes the configuration for all of a component's properties. Use `ComponentProperty` to specify the values to render or bind by default.

Contents

bindingProperties

The information to bind the component property to data at runtime.

Type: [ComponentPropertyBindingProperties](#) object

Required: No

bindings

The information to bind the component property to form data.

Type: String to [FormBindingElement](#) object map

Required: No

collectionBindingProperties

The information to bind the component property to data at runtime. Use this for collection components.

Type: [ComponentPropertyBindingProperties](#) object

Required: No

componentName

The name of the component that is affected by an event.

Type: String

Required: No

concat

A list of component properties to concatenate to create the value to assign to this component property.

Type: Array of [ComponentProperty](#) objects

Required: No

condition

The conditional expression to use to assign a value to the component property.

Type: [ComponentConditionProperty](#) object

Required: No

configured

Specifies whether the user configured the property in Amplify Studio after importing it.

Type: Boolean

Required: No

defaultValue

The default value to assign to the component property.

Type: String

Required: No

event

An event that occurs in your app. Use this for workflow data binding.

Type: String

Required: No

importedValue

The default value assigned to the property when the component is imported into an app.

Type: String

Required: No

model

The data model to use to assign a value to the component property.

Type: String

Required: No

property

The name of the component's property that is affected by an event.

Type: String

Required: No

type

The component type.

Type: String

Required: No

userAttribute

An authenticated user attribute to use to assign a value to the component property.

Type: String

Required: No

value

The value to assign to the component property.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentPropertyBindingProperties

Associates a component property to a binding property. This enables exposed properties on the top level component to propagate data to the component's property values.

Contents

property

The component property to bind to the data field.

Type: String

Required: Yes

field

The data field to bind the property to.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentSummary

Contains a summary of a component. This is a read-only data type that is returned by `ListComponents`.

Contents

appId

The unique ID of the Amplify app associated with the component.

Type: String

Required: Yes

componentType

The component type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

id

The unique ID of the component.

Type: String

Required: Yes

name

The name of the component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentVariant

Describes the style configuration of a unique variation of a main component.

Contents

overrides

The properties of the component variant that can be overridden when customizing an instance of the component. You can't specify tags as a valid property for `overrides`.

Type: String to string to string map map

Required: No

variantValues

The combination of variants that comprise this variant. You can't specify tags as a valid property for `variantValues`.

Type: String to string map

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateComponentData

Represents all of the information that is required to create a component.

Contents

bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: Yes

componentType

The component type. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

name

The name of the component

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

overrides

Describes the component properties that can be overridden to customize an instance of the component.

Type: String to string to string map map

Required: Yes

properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: Yes

variants

A list of the unique variants of this component.

Type: Array of [ComponentVariant](#) objects

Required: Yes

children

A list of child components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

collectionProperties

The data binding configuration for customizing a component's properties. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

tags

One or more key-value pairs to use when tagging the component data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . _ : /]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateFormData

Represents all of the information that is required to create a form.

Contents

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: Yes

fields

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: Yes

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: Yes

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

schemaVersion

The schema version of the form.

Type: String

Required: Yes

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: Yes

style

The configuration for the form's style.

Type: [FormStyle](#) object

Required: Yes

cta

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

tags

One or more key-value pairs to use when tagging the form data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+--=._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CreateThemeData

Represents all of the information that is required to create a theme.

Contents

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Required: Yes

overrides

Describes the properties that can be overridden to customize an instance of the theme.

Type: Array of [ThemeValues](#) objects

Required: No

tags

One or more key-value pairs to use when tagging the theme data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+ -= . _ : /] +

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DataStoreRenderConfig

Describes the DataStore configuration for an API for a code generation job.

Contents

The members of this exception structure are context-dependent.

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExchangeCodeForTokenRequestBody

Describes the configuration of a request to exchange an access code for a token.

Contents

code

The access code to send in the request.

Type: String

Required: Yes

redirectUri

The location of the application that will receive the access code.

Type: String

Required: Yes

clientId

The ID of the client to request the token from.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FieldConfig

Describes the configuration information for a field in a table.

Contents

excluded

Specifies whether to hide a field.

Type: Boolean

Required: No

inputType

Describes the configuration for the default input value to display for a field.

Type: [FieldInputConfig](#) object

Required: No

label

The label for the field.

Type: String

Required: No

position

Specifies the field position.

Type: [FieldPosition](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

validations

The validations to perform on the value in the field.

Type: Array of [FieldValidationConfiguration](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FieldInputConfig

Describes the configuration for the default input values to display for a field.

Contents

type

The input type for the field.

Type: String

Required: Yes

defaultChecked

Specifies whether a field has a default value.

Type: Boolean

Required: No

defaultCountryCode

The default country code for a phone number.

Type: String

Required: No

defaultValue

The default value for the field.

Type: String

Required: No

descriptiveText

The text to display to describe the field.

Type: String

Required: No

fileUploaderConfig

The configuration for the file uploader field.

Type: [FileUploaderFieldConfig](#) object

Required: No

isArray

Specifies whether to render the field as an array. This property is ignored if the `dataSourceType` for the form is a Data Store.

Type: Boolean

Required: No

maxValue

The maximum value to display for the field.

Type: Float

Required: No

minValue

The minimum value to display for the field.

Type: Float

Required: No

name

The name of the field.

Type: String

Required: No

placeholder

The text to display as a placeholder for the field.

Type: String

Required: No

readOnly

Specifies a read only field.

Type: Boolean

Required: No

required

Specifies a field that requires input.

Type: Boolean

Required: No

step

The stepping increment for a numeric value in a field.

Type: Float

Required: No

value

The value for the field.

Type: String

Required: No

valueMappings

The information to use to customize the input fields with data at runtime.

Type: [ValueMappings](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FieldPosition

Describes the field position.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

below

The field position is below the field specified by the string.

Type: String

Required: No

fixed

The field position is fixed and doesn't change in relation to other fields.

Type: String

Valid Values: `first`

Required: No

rightOf

The field position is to the right of the field specified by the string.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FieldValidationConfiguration

Describes the validation configuration for a field.

Contents

type

The validation to perform on an object type.

Type: String

Required: Yes

numValues

The validation to perform on a number value.

Type: Array of integers

Required: No

strValues

The validation to perform on a string value.

Type: Array of strings

Required: No

validationMessage

The validation message to display.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FileUploaderFieldConfig

Describes the configuration for the file uploader field.

Contents

acceptedFileTypes

The file types that are allowed to be uploaded by the file uploader. Provide this information in an array of strings specifying the valid file extensions.

Type: Array of strings

Required: Yes

accessLevel

The access level to assign to the uploaded files in the Amazon S3 bucket where they are stored. The valid values for this property are `private`, `protected`, or `public`. For detailed information about the permissions associated with each access level, see [File access levels](#) in the *Amplify documentation*.

Type: String

Valid Values: `public` | `protected` | `private`

Required: Yes

isResumable

Allows the file upload operation to be paused and resumed. The default value is `false`.

When `isResumable` is set to `true`, the file uploader uses a multipart upload to break the files into chunks before upload. The progress of the upload isn't continuous, because the file uploader uploads a chunk at a time.

Type: Boolean

Required: No

maxFileCount

Specifies the maximum number of files that can be selected to upload. The default value is an unlimited number of files.

Type: Integer

Required: No

maxSize

The maximum file size in bytes that the file uploader will accept. The default value is an unlimited file size.

Type: Integer

Required: No

showThumbnails

Specifies whether to display or hide the image preview after selecting a file for upload. The default value is `true` to display the image preview.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Form

Contains the configuration settings for a Form user interface (UI) element for an Amplify app. A form is a component you can add to your project by specifying a data source as the default configuration for the form.

Contents

appId

The unique ID of the Amplify app associated with the form.

Type: String

Required: Yes

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

fields

Stores the information about the form's fields.

Type: String to [FieldConfig](#) object map

Required: Yes

formActionType

The operation to perform on the specified form.

Type: String

Valid Values: create | update

Required: Yes

id

The unique ID of the form.

Type: String

Required: Yes

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

schemaVersion

The schema version of the form when it was imported.

Type: String

Required: Yes

sectionalElements

Stores the visual helper elements for the form that are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: Yes

style

Stores the configuration for the form's style.

Type: [FormStyle](#) object

Required: Yes

cta

Stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: `required` | `optional` | `none`

Required: No

tags

One or more key-value pairs to use when tagging the form.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+ -=._:/]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormBindingElement

Describes how to bind a component property to form data.

Contents

element

The name of the component to retrieve a value from.

Type: String

Required: Yes

property

The property to retrieve a value from.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormButton

Describes the configuration for a button UI element that is a part of a form.

Contents

children

Describes the button's properties.

Type: String

Required: No

excluded

Specifies whether the button is visible on the form.

Type: Boolean

Required: No

position

The position of the button.

Type: [FieldPosition](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormCTA

Describes the call to action button configuration for the form.

Contents

cancel

Displays a cancel button.

Type: [FormButton](#) object

Required: No

clear

Displays a clear button.

Type: [FormButton](#) object

Required: No

position

The position of the button.

Type: String

Valid Values: top | bottom | top_and_bottom

Required: No

submit

Displays a submit button.

Type: [FormButton](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormDataTypeConfig

Describes the data type configuration for the data source associated with a form.

Contents

dataSourceType

The data source type, either an Amplify DataStore model or a custom data type.

Type: String

Valid Values: DataStore | Custom

Required: Yes

dataTypeName

The unique name of the data type you are using as the data source for the form.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormInputBindingPropertiesValue

Represents the data binding configuration for a form's input fields at runtime. You can use `FormInputBindingPropertiesValue` to add exposed properties to a form to allow different values to be entered when a form is reused in different places in an app.

Contents

`bindingProperties`

Describes the properties to customize with data at runtime.

Type: [FormInputBindingPropertiesValueProperties](#) object

Required: No

`type`

The property type.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormInputBindingPropertiesValueProperties

Represents the data binding configuration for a specific property using data stored in AWS. For AWS connected properties, you can bind a property to data stored in an Amplify DataStore model.

Contents

model

An Amplify DataStore model.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormInputValueProperty

Describes the configuration for an input field on a form. Use `FormInputValueProperty` to specify the values to render or bind by default.

Contents

bindingProperties

The information to bind fields to data at runtime.

Type: [FormInputValuePropertyBindingProperties](#) object

Required: No

concat

A list of form properties to concatenate to create the value to assign to this field property.

Type: Array of [FormInputValueProperty](#) objects

Required: No

value

The value to assign to the input field.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormInputValuePropertyBindingProperties

Associates a form property to a binding property. This enables exposed properties on the top level form to propagate data to the form's property values.

Contents

property

The form property to bind to the data field.

Type: String

Required: Yes

field

The data field to bind the property to.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormStyle

Describes the configuration for the form's style.

Contents

horizontalGap

The spacing for the horizontal gap.

Type: [FormStyleConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

outerPadding

The size of the outer padding for the form.

Type: [FormStyleConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

verticalGap

The spacing for the vertical gap.

Type: [FormStyleConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

FormStyleConfig

Describes the configuration settings for the form's style properties.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

tokenReference

A reference to a design token to use to bind the form's style properties to an existing theme.

Type: String

Required: No

value

The value of the style setting.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FormSummary

Describes the basic information about a form.

Contents

appId

The unique ID for the app associated with the form summary.

Type: String

Required: Yes

dataType

The form's data source type.

Type: [FormDataTypeConfig](#) object

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Type: String

Required: Yes

formActionType

The type of operation to perform on the form.

Type: String

Valid Values: create | update

Required: Yes

id

The ID of the form.

Type: String

Required: Yes

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

GraphQLRenderConfig

Describes the GraphQL configuration for an API for a code generation job.

Contents

fragmentsFilePath

The path to the GraphQL fragments file, relative to the component output directory.

Type: String

Required: Yes

mutationsFilePath

The path to the GraphQL mutations file, relative to the component output directory.

Type: String

Required: Yes

queriesFilePath

The path to the GraphQL queries file, relative to the component output directory.

Type: String

Required: Yes

subscriptionsFilePath

The path to the GraphQL subscriptions file, relative to the component output directory.

Type: String

Required: Yes

typesFilePath

The path to the GraphQL types file, relative to the component output directory.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MutationActionSetStateParameter

Represents the state configuration when an action modifies a property of another element within the same component.

Contents

componentName

The name of the component that is being modified.

Type: String

Required: Yes

property

The name of the component property to apply the state configuration to.

Type: String

Required: Yes

set

The state configuration to assign to the property.

Type: [ComponentProperty](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

NoApiRenderConfig

Describes the configuration for an application with no API being used.

Contents

The members of this exception structure are context-dependent.

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Predicate

Stores information for generating Amplify DataStore queries. Use a Predicate to retrieve a subset of the data in a collection.

Contents

and

A list of predicates to combine logically.

Type: Array of [Predicate](#) objects

Required: No

field

The field to query.

Type: String

Required: No

operand

The value to use when performing the evaluation.

Type: String

Required: No

operandType

The type of value to use when performing the evaluation.

Type: String

Pattern: `boolean|string|number`

Required: No

operator

The operator to use to perform the evaluation.

Type: String

Required: No

or

A list of predicates to combine logically.

Type: Array of [Predicate](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutMetadataFlagBody

Stores the metadata information about a feature on a form.

Contents

newValue

The new information to store.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ReactStartCodegenJobData

Describes the code generation job configuration for a React project.

Contents

apiConfiguration

The API configuration for the code generation job.

Type: [ApiConfiguration](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

dependencies

Lists the dependency packages that may be required for the project code to run.

Type: String to string map

Required: No

inlineSourceMap

Specifies whether the code generation job should render inline source maps.

Type: Boolean

Required: No

module

The JavaScript module type.

Type: String

Valid Values: `es2020` | `esnext`

Required: No

renderTypeDeclarations

Specifies whether the code generation job should render type declaration files.

Type: Boolean

Required: No

script

The file type to use for a JavaScript project.

Type: String

Valid Values: `jsx` | `tsx` | `js`

Required: No

target

The ECMAScript specification to use.

Type: String

Valid Values: `es2015` | `es2020`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RefreshTokenRequestBody

Describes a refresh token.

Contents

token

The token to use to refresh a previously issued access token that might have expired.

Type: String

Required: Yes

clientId

The ID of the client to request the token from.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SectionalElement

Stores the configuration information for a visual helper element for a form. A sectional element can be a header, a text block, or a divider. These elements are static and not associated with any data.

Contents

type

The type of sectional element. Valid values are `Heading`, `Text`, and `Divider`.

Type: String

Required: Yes

excluded

Excludes a sectional element that was generated by default for a specified data model.

Type: Boolean

Required: No

level

Specifies the size of the font for a `Heading` sectional element. Valid values are 1 | 2 | 3 | 4 | 5 | 6.

Type: Integer

Required: No

orientation

Specifies the orientation for a `Divider` sectional element. Valid values are `horizontal` or `vertical`.

Type: String

Required: No

position

Specifies the position of the text in a field for a `Text` sectional element.

Type: [FieldPosition](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

text

The text for a Text sectional element.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SortProperty

Describes how to sort the data that you bind to a component.

Contents

direction

The direction of the sort, either ascending or descending.

Type: String

Valid Values: ASC | DESC

Required: Yes

field

The field to perform the sort on.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StartCodegenJobData

The code generation job resource configuration.

Contents

renderConfig

The code generation configuration for the codegen job.

Type: [CodegenJobRenderConfig](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

autoGenerateForms

Specifies whether to autogenerate forms in the code generation job.

Type: Boolean

Required: No

features

The feature flags for a code generation job.

Type: [CodegenFeatureFlags](#) object

Required: No

genericDataSchema

The data schema to use for a code generation job.

Type: [CodegenJobGenericDataSchema](#) object

Required: No

tags

One or more key-value pairs to use when tagging the code generation job data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: (?!aws:)[a-zA-Z+--._:/]+

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Theme

A theme is a collection of style settings that apply globally to the components associated with an Amplify application.

Contents

appId

The unique ID for the Amplify app associated with the theme.

Type: String

Required: Yes

createdAt

The time that the theme was created.

Type: Timestamp

Required: Yes

environmentName

The name of the backend environment that is a part of the Amplify app.

Type: String

Required: Yes

id

The ID for the theme.

Type: String

Required: Yes

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

values

A list of key-value pairs that defines the properties of the theme.

Type: Array of [ThemeValues](#) objects

Required: Yes

modifiedAt

The time that the theme was modified.

Type: Timestamp

Required: No

overrides

Describes the properties that can be overridden to customize a theme.

Type: Array of [ThemeValues](#) objects

Required: No

tags

One or more key-value pairs to use when tagging the theme.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `(?!aws:)[a-zA-Z+-._: /]+`

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThemeSummary

Describes the basic information about a theme.

Contents

appId

The unique ID for the app associated with the theme summary.

Type: String

Required: Yes

environmentName

The name of the backend environment that is part of the Amplify app.

Type: String

Required: Yes

id

The ID of the theme.

Type: String

Required: Yes

name

The name of the theme.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThemeValue

Describes the configuration of a theme's properties.

Contents

children

A list of key-value pairs that define the theme's properties.

Type: Array of [ThemeValues](#) objects

Required: No

value

The value of a theme property.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThemeValues

A key-value pair that defines a property of a theme.

Contents

key

The name of the property.

Type: String

Required: No

value

The value of the property.

Type: [ThemeValue](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateComponentData

Updates and saves all of the information about a component, based on component ID.

Contents

bindingProperties

The data binding information for the component's properties.

Type: String to [ComponentBindingPropertiesValue](#) object map

Required: No

children

The components that are instances of the main component.

Type: Array of [ComponentChild](#) objects

Required: No

collectionProperties

The configuration for binding a component's properties to a data model. Use this for a collection component.

Type: String to [ComponentDataConfiguration](#) object map

Required: No

componentType

The type of the component. This can be an Amplify custom UI component or another custom component.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

events

The event configuration for the component. Use for the workflow feature in Amplify Studio that allows you to bind events and actions to components.

Type: String to [ComponentEvent](#) object map

Required: No

id

The unique ID of the component to update.

Type: String

Required: No

name

The name of the component to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overridden to customize the component.

Type: String to string to string map map

Required: No

properties

Describes the component's properties.

Type: String to [ComponentProperty](#) object map

Required: No

schemaVersion

The schema version of the component when it was imported.

Type: String

Required: No

sourceId

The unique ID of the component in its original source system, such as Figma.

Type: String

Required: No

variants

A list of the unique variants of the main component being updated.

Type: Array of [ComponentVariant](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateFormData

Updates and saves all of the information about a form, based on form ID.

Contents

cta

The FormCTA object that stores the call to action configuration for the form.

Type: [FormCTA](#) object

Required: No

dataType

The type of data source to use to create the form.

Type: [FormDataTypeConfig](#) object

Required: No

fields

The configuration information for the form's fields.

Type: String to [FieldConfig](#) object map

Required: No

formActionType

Specifies whether to perform a create or update action on the form.

Type: String

Valid Values: create | update

Required: No

labelDecorator

Specifies an icon or decoration to display on the form.

Type: String

Valid Values: required | optional | none

Required: No

name

The name of the form.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

schemaVersion

The schema version of the form.

Type: String

Required: No

sectionalElements

The configuration information for the visual helper elements for the form. These elements are not associated with any data.

Type: String to [SectionalElement](#) object map

Required: No

style

The configuration for the form's style.

Type: [FormStyle](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateThemeData

Saves the data binding information for a theme.

Contents

values

A list of key-value pairs that define the theme's properties.

Type: Array of [ThemeValues](#) objects

Required: Yes

id

The unique ID of the theme to update.

Type: String

Required: No

name

The name of the theme to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

overrides

Describes the properties that can be overridden to customize the theme.

Type: Array of [ThemeValues](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValueMapping

Associates a complex object with a display value. Use `ValueMapping` to store how to represent complex objects when they are displayed.

Contents

value

The complex object.

Type: [FormInputValueProperty](#) object

Required: Yes

displayValue

The value to display for the complex object.

Type: [FormInputValueProperty](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValueMappings

Represents the data binding configuration for a value map.

Contents

values

The value and display value pairs.

Type: Array of [ValueMapping](#) objects

Required: Yes

bindingProperties

The information to bind fields to data at runtime.

Type: String to [FormInputBindingPropertiesValue](#) object map

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key/YYYYMMDD/region/service/aws4_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400