

Developing Cloud Applications with React



Module 2 : Glossary - React Components

Term	Definition
Actions	JSON objects that contain information about changes that need to be made to the state. For example, a GET action obtains information, a POST action sends information, and a DELETE action removes information.
Callback	A normal method called once a condition is met.
Chai	An object that can be used as the assertion library.
Component Lifecycle	A series of four phases make up the lifecycle of a component. These phases are: Initialization, Mounting, Updating, and Unmounting.
Component testing	When you render component trees in a simple test environment and assert their output.
Cross-origin requests	Requests that come from multiple sources.
Document Object Model (DOM)	It defines the logical structure of documents and the way a document is accessed and manipulated.
End-to-end testing	A multi-step test that combines multiple units and integrates all tests into one big test. It requires the running of a complete application in a realistic browser environment.
Enzyme	A library that can be added to your testing tools in order to render your React components
Initialization phase	The first component lifecycle phase. During this phase, the component is constructed with the given Props and default state.
Jest	A JavaScript test runner and assertion library used to test React components. It can be combined with Enzyme or the React Testing Library.
Local state	One of the two types of React states. Local state lives in a single component and is not used in other components. An example of local state is hiding and showing information. (See <code>**Shared state**</code> .)
Middleware	Library that connects applications and services.
Mocha	Object that can be used as the test runner.
Mounting Phase	The second component lifecycle phase. During this phase, the JSX is rendered.
Props	Short for 'properties.' Read-only objects that store attribute values of tags. Used to pass data from parent to child components.
Push	When a user or software automation moves data from one location to another.

React Testing Library

A set of helpers that let you test React components without depending on their implementation details. This library is a replacement for Enzyme.

Shared state

One of the two types of React states. Shared state is shared by multiple components and is complicated. An example of shared state is the list of all orders in an order application. (See **Local state**.)

Sinon

An object that can be used to test JavaScript logic with objects such as spies, stubs, and mocks.

Snapshot testing

Testing that helps check and verify the component rendering result.

State

A plain JavaScript object used by React to represent information about the component's current situation. States help track changes in a component.

Testing

A line-by-line review of how code executes. Testing replicates end user actions to ensure features work as intended.

Updating phase

The third component lifecycle phase. During this phase, the state of a component is updated, and the application is repainted.

Unmounting phase

The final component lifecycle phase. During this phase, the component is removed from the page.

Changelog

Date	Version	Changed by	Change Description
28-10-2022	1.0	Samaah Sarang	Initial md version created
24-03-2023	1.1	Sneha R Baddi	Updated the terms

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