

Module-9

React - Components, State, Prop

1) What are components in React? Explain the difference between **functional components** and **class components**.

- Functional components are stateless components that are written as a JavaScript function. They use props to receive data and return JSX to render the component. Functional components are also much simpler to read and test. Class components are stateful components that are written as a JavaScript class.

2) How do you pass data to a component using props?

- Every parent component can pass some information to its child components by giving them props.

3) What is the role of render() in class components?

- The purpose of the function is to display the specified HTML code inside the specified HTML element.

4) What are props in React.js? How are props different from state?

- Props are used to pass data from a parent component to a child component, while state is used to manage data within a component.

5) Explain the concept of state in React and how it is used to manage component data.

- a JavaScript object that holds data that determines how a component behaves and renders information to the user. React provides a `setState()` method to update the state of a component. This causes the component to re-render with the new state.

6) Why is `this.setState()` used in class components, and how does it work?

- The `setState()` method enqueues all of the updates made to the component state and instructs React to re-render the component and its children with the updated state.