

`constructor(props)`

- The `constructor` method is called when a component is initialized, and it's the right place to set up the initial state and bind event handlers.
- Example use: Initializing the component's state.

`render()`

- The `render` method is required for every component and is responsible for returning the JSX (UI representation) of the component.
- Example use: Rendering the component's UI.

`componentDidMount()`

- The `componentDidMount` method is called after the component has been rendered to the screen.
- Example use: Fetching data from APIs, subscribing to events, or setting up timers.

`componentDidUpdate(prevProps, prevState)`

- The `componentDidUpdate` method is called after the component updates and re-renders.
- Example use: Performing side effects after a state change or receiving new props.

`componentWillUnmount()`

- The `componentWillUnmount` method is called just before the component is removed from the DOM.
- Example use: Cleaning up resources like event listeners, timers, or subscriptions.

It's essential to mention that React encourages using functional components with hooks instead of relying on class-based components and lifecycle methods. Hooks provide a more straightforward and composable way to manage state and side effects in functional components.