

## LIFESTYLE METHODS IN REACT.JS:

React.js components have several lifecycle methods that are called during the different phases of a component's existence. Here are some of the most commonly used lifecycle methods:

1. **constructor()**: This is called when the component is being initialized and is used to set up the initial state and bind event handlers.
2. **render()**: This is a required method that returns the JSX (JavaScript XML) that defines the component's structure and content.
3. **componentDidMount()**: This is called after the component has been rendered to the DOM. It is commonly used to fetch data from an API or set up event listeners.
4. **shouldComponentUpdate(nextProps, nextState)**: This is called before a component is updated and allows you to optimize the rendering process by determining if the component should re-render based on changes in props or state.
5. **componentDidUpdate(prevProps, prevState)**: This is called after the component has been updated. It is commonly used to perform side effects, such as updating the DOM or making API calls based on the new props or state.
6. **componentWillUnmount()**: This is called before a component is removed from the DOM. It is used to clean up any resources, such as event listeners or timers, that were created in the **componentDidMount()** method.

These are just a few of the lifecycle methods available in React.js. There are also other less commonly used methods, such as **getDerivedStateFromProps()**, **getSnapshotBeforeUpdate()**, and **componentDidCatch()**, which are used for more advanced scenarios.