



React Life-Cycle Methods





You can think of React life cycle methods as the series of events that happen from the birth of a React component to its death.

Every component in React goes through a life cycle of events. I like to think of them as going through a cycle of birth, growth, and death.

There are four phases of Component Life.

1. **Mounting** – Birth of your component
2. **Update** – Growth of your component
3. **Unmount** – Death of your component
4. **Error Handling** – handling errors occur in all above phases



What is Mounting Phase?



When React Component is initialized ,created and putting into the Real DOM .

Mounting Phase has 4 methods:

1. **constructor(props)**
2. **static getDerivedStateFromProps (props,state)**
3. **render ()**
4. **componentDidMount()**

NOTE: render Method is required , all other methods are optional.



What is Updating Phase?



When React Component grows (update), any change in component state and props.

Updating Phase has 5 methods:

1. **static getDerivedStateFromProps(props,state)**
2. **shouldComponentUpdate(nextProps,nextState)**
3. **render()**
4. **getSnapshotBeforeUpdate(prevProps,prevState)**
5. **componentDidUpdate(prevProps,prevState,snapShot)**



What is Unmounting Phase?



The unmounting phase in the life cycle is when a component is removed from the DOM.

Unmounting Phase has only methods:

1. **componentWillUnmount()**



What is Error Handling Phase?



Handle errors in all other phases of life-cycles .

Error Handling Phase has 2 methods:

1. **static `getDerivedStateFromError()`**
2. **`componentDidCatch()`**

If Class Component uses these methods we call it a Error Boundary.
it can also log those errors, and display a fallback UI.

