

# Assignment

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## MODULE: 4 (Lists and Hooks)

➤ Explain Life cycle in Class Component and Function Component with Hooks

**Ans:** Every Component in React are created (Mounted on the DOM), change by updating and then removed (Unmounted on DOM). This is mentioned as a component lifecycle.

There are three methods in React that defines three phases of components life:-

**1. Mounting:-** Mounting means putting elements into the DOM. And there are two methods to do it.

- 1. ComponentWillMount():-** This method is called before the component mounts on DOM or we can say before render method is called.
- 2. ComponentDidMount():-** This method is called after the component mounted on DOM or we can say after render method is called.

**2. Update:-** The next phase in the lifecycle is when a component is updated. A component is updated whenever there is a change in the component's **state** or **props**. There are three methods to do it

- 1. ComponentShouldUpdate():-** In the ComponentShouldUpdate() method you can return a Boolean value specifies whether React should continue with the rendering or not. The default value is true.

**2. componentWillUpdate():**- This method is called before re-rendering has done and when you want to do some functionalities just before re-rendering take place.

**3. componentDidUpdate():**-This method is called after the re-rendering has done or we can say after component mounted on DOM.

**3. Unmounting:**- Last phase of component lifecycle. In this phase our component is removed or unmounted from DOM. Only one method is there

**1. componentWillUnmount():**- This method is called before the component Unmounting on DOM. Denoting that it will Unmounted soon or we can say end of the component life cycle.

### ❖ Example of Function Component

```
import React,{useEffect} from "react";
```

Mounting:

```
useEffect(()=>{  
  console.log("DidMount")  
},[])
```

Unmounting:

```
useEffect(()=>{  
  console.log("DidMount")  
  return () => console.log("WillUnmount")  
},[])
```

Updating:

```
useEffect(()=>{  
  return () => console.log("DidUpdate")  
},[data.number])
```

## ❖ Example of Class Component

Mounting:-

```
componentDidMount(){  
  console.log("DidMount")  
}
```

Unmounting:-

```
componentWillUnmount(){  
  console.log("WillUnmount")  
}
```

Updating:-

```
componentDidUpdate(){  
  console.log("DidUpdate")  
}
```