

Module:4(List and Hooks)

1. Explain Life cycle in Class Component and functional 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**:- In this phase our react component mounts on 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. **Updating**:- In this phase our component is already created and mounted on DOM. This phase executes when component's state or props are changes or re-rendering take place. And this will execute by User when they will interact with the component (pressing button ,inputs). There are three methods to do it

1. **componentShouldUpdate()**:- This method is called when you want to re-render the component on some condition. By default, it returns 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:- 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:- Class Component

Mounting:-

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

Unmounting:-

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

Updating:-

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