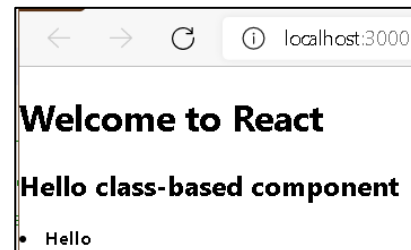


LIFECYCLE EVENTS

Lifecycle Events

- React class components can have hooks for several lifecycle events
 - During the lifetime of a component, there's a series of events that gets called, and to each event you can hook and provide custom functionality.
 - React lifecycle methods are a series of events that happen from the birth of a React component to its death.
 - There are 4 phases in a React component lifecycle:
 - initial
 - Mounting
 - Updating
 - Unmounting

```
class HelloComponent extends Component{  
  constructor(){  
    super();  
    this.state = {message: "hello" }  
  }  
  render(){  
    return (<h2>{this.state.message}</h2>)  
  }  
}
```



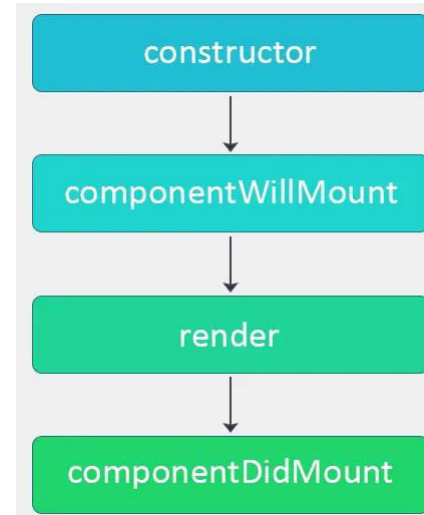
Lifecycle methods

- React lifecycle methods:
 - Each React lifecycle phase has a number of lifecycle methods that you can override to run code at specified times during the process.
 - These are popularly known as component lifecycle methods.
- Initialisation phase:
 - `Constructor(props)`: This is a special function that is called when new components are created. In this, we initialize the state or props of the component.

Lifecycle methods

- The mounting phase refers to the phase during which a component is created and inserted to the DOM.
- The following methods are called in order.
 - **ComponentWillMount()**: This function is called immediately before mounting occurs. It is called right before the first rendering is performed.
 - **render()**: You have this method for all the components created. It returns the Html node.
 - **componentDidMount()**: This method is called right after the react component is mounted on DOM or you can say that it is called right after render method executed for the first time
 - Here we can make API call, foreg, interact with dom or perform any ajax call to load data.

```
class HelloComponent extends Component{
  componentDidMount(){
    console.log("Mounted component")
  }
  render(){
    return <h1>Hello</h1>
  }
}
```



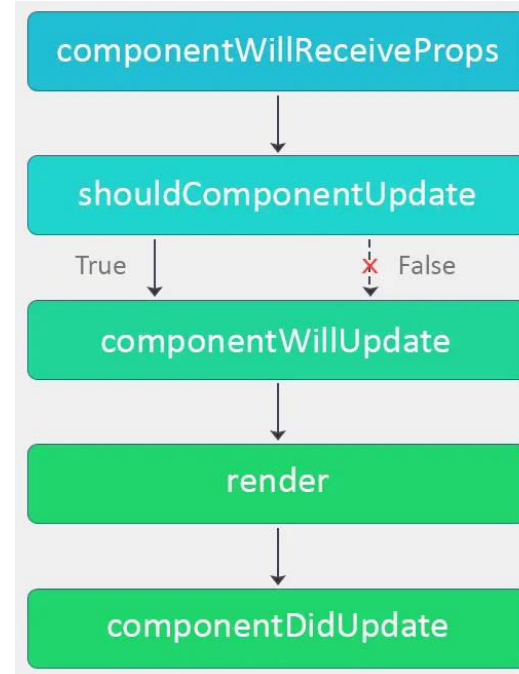
Hello

CONSOLE WAS CLEARED
Mounted component



Lifecycle methods

- **Update:** In this state, the dom is interacted by a user and updated. For example, you enter something in the textbox, so the state properties are updated.
 - The component is re-rendered whenever a change is made to react component's state or props, you can simply say that the component is updated.
- Following are the methods available in update state:
 - `shouldComponentUpdate()` : called when the component is updated.
 - `componentDidUpdate()` : after the component is updated.
- **UnMounting:** this state comes into the picture when the Component is not required or removed.
- Following are the methods available in unmount state:
 - `ComponentWillUnmount()`: called when the Component is removed or destroyed.



`componentWillUnmount`

```
import React, {Component} from 'react';

class LifecycleComponent extends Component {
  constructor(props) {
    super(props);
    this.state = {name: ''};

    this.UpdateName = this.UpdateName.bind(this);
    this.testclick = this.testclick.bind(this);
  }

  UpdateName(event) {
    this.setState({name: event.target.value});
  }

  testclick(event) {
    alert("The name entered is: "+ this.state.name);
  }

  componentDidMount() {
    console.log('Mounting State : calling method componentDidMount');
  }

  shouldComponentUpdate() {
    console.log('Update State : calling method shouldComponentUpdate');
    return true;
  }
}
```

```
componentDidUpdate() {
  console.log('Update State : calling method
componentDidUpdate')
}
```

```
componentWillUnmount() {
  console.log('UnMounting State : calling method
componentWillUnmount');
}
```

```
render() {
  return (
    <div>
      Enter Your Name:<input type="text"
value={this.state.name} onChange={this.UpdateName} /><br/>
      <h2>{this.state.name}</h2>
      <input type="button"
        value="Click Here"
        onClick={this.testclick} />
    </div>
  );
}
```

```
export default LifecycleComponent;
```

Welcome to React

Enter Your Name:

Shrilata

[Lifecycle Methods \(kirupa.com\)](http://kirupa.com)

Mounting State : calling method componentDidMount

Update State : calling method shouldComponentUpdate

Update State : calling method componentDidUpdate

Update State : calling method shouldComponentUpdate

Update State : calling method componentDidUpdate

Update State : calling method shouldComponentUpdate

Update State : calling method componentDidUpdate

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