

What is Life cycle method

I

Phase of life cycle

Example

Importants of life cycle

Show less common lifecycles

React version 16.3

Language US en-US

Mounting

constructor

render

React updates DOM and refs

componentDidMount

Updating

New props

setState()

forceUpdate()

componentDidUpdate

Unmounting

componentWillUnmount

"Render phase"

Pure and has no side effects. May be paused, aborted or restarted by React.

"Commit phase"

Can work with DOM, run side effects, schedule updates.

[Read docs for componentDidUpdate \(opens in a new tab\)](#)

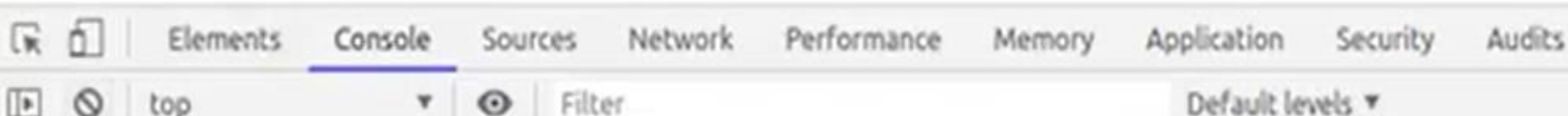
Phase:-

- Mounting:--Component is making
- Updating:-- Component is updating
- UnMounting:- Component is dead.

Constructor-render-componentdidmount

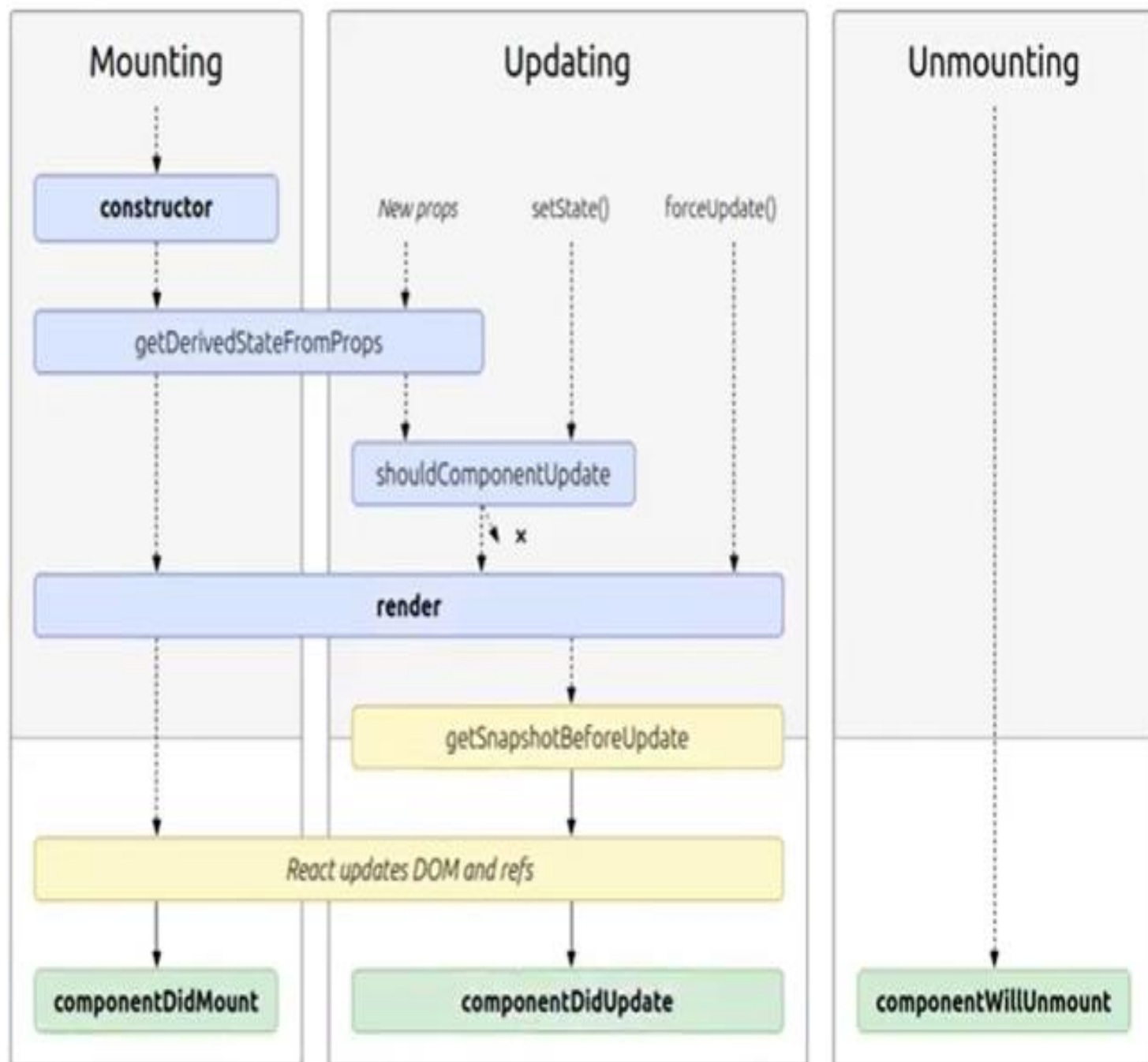
```
class App extends React.Component {  
  constructor()  
  {  
    super();  
    console.warn("constructor")  
  }  
  componentDidMount()  
  {  
    console.warn("constructor")  
  }  
  render() {  
    console.warn("render")  
    return (  
      <div>  
        <h1>Life Cycle Method</h1>  
      </div>  
    );  
  }  
}
```

Life Cycle Method



Download the React DevTools for a better development experience: <https://fb.me/react-devtools>

- ▶ constructor
- ▶ render
- ▶ componentDidMount

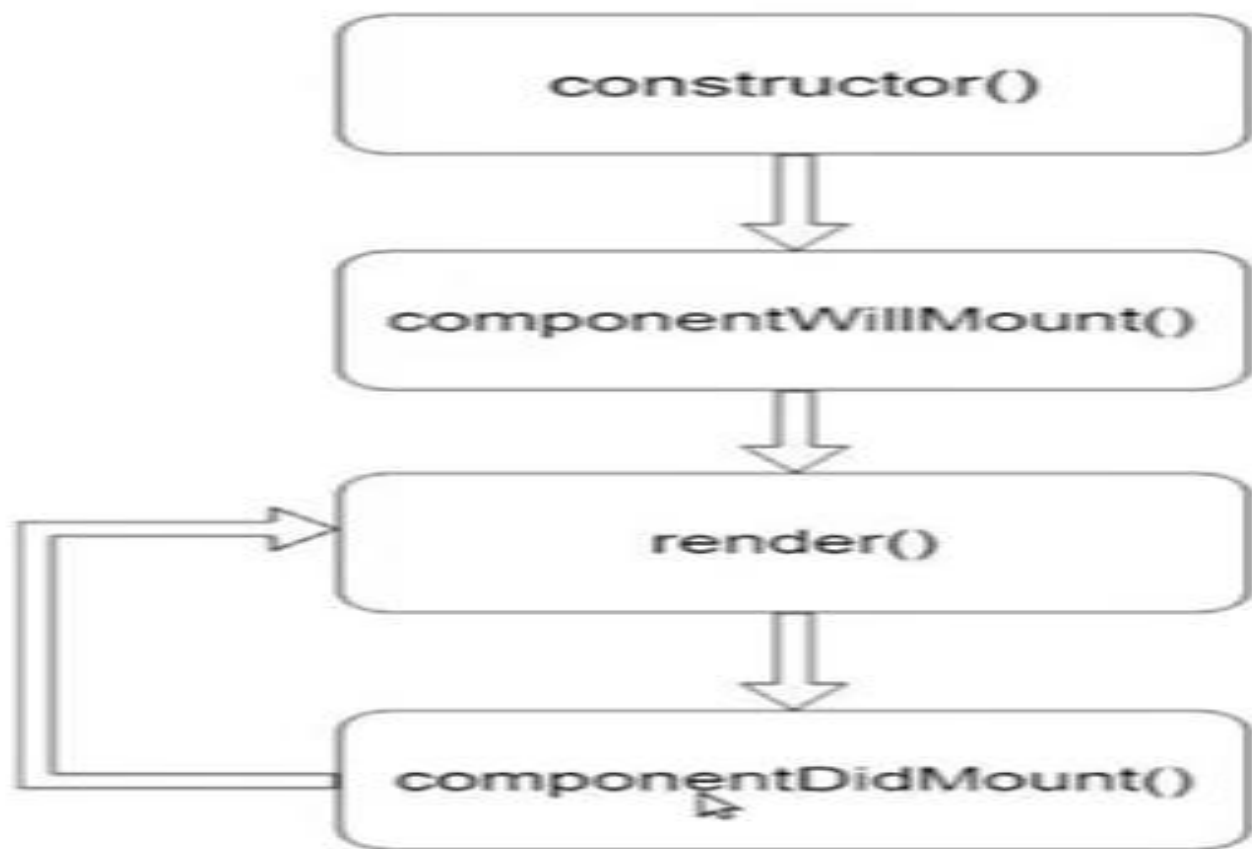


Why we use this life cycle:-

- Suppose we call the api if we call the api inside the constructor and if you attach in the html then it will generate the error.
 - Constructor is ready but render is not ready means html is not making
 - We can not put any logic inside the render
 - So we call the api inside componentDidMount()
 - Because all the html data ready then we call the api.
 - componentDidMount() is called only all the html data is ready.
-

ComponentWillUnmount()

- Api call when component is dead
- shouldComponentUpdate():-
- Its asking we have to update the component or not

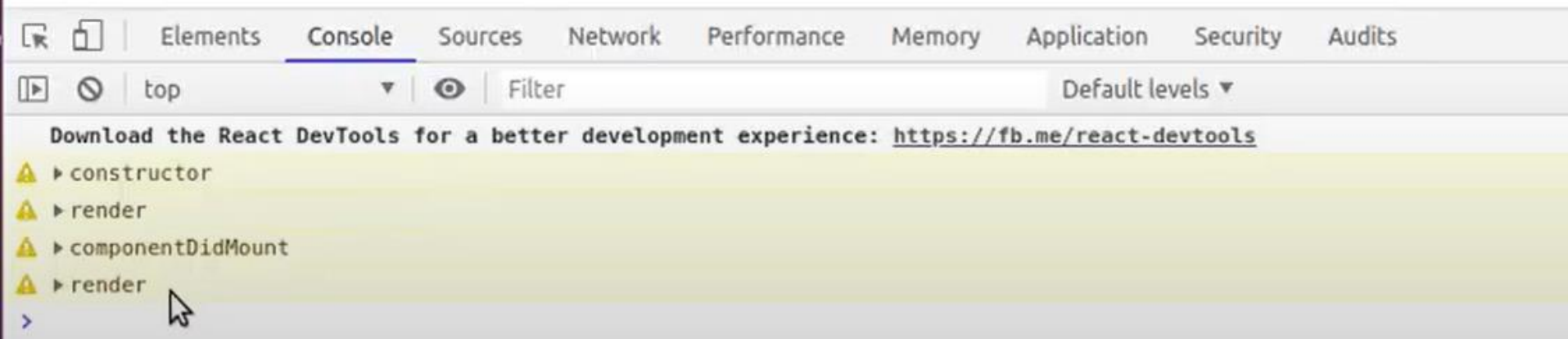


```
import React from 'react';
```

```
class App extends React.Component {  
  constructor()  
  {  
    super()  
    this.state={  
      data:null  
    }  
    console.warn("constructor")  
  }  
  componentDidMount()  
  {  
    this.setState({data: "component updated"});  
    console.warn("componentDidMount")  
  }  
  render() {  
    console.warn("render")  
    return (  
      <div>  
        <h1>Life Cycle Method : componentDidMount</h1>  
      </div>  
    );  
  }  
}  
export default App;
```

Render call two time

Life Cycle Method : componentDidMount



What is componentdidupdate

Understand somepoints from offical Wbsite

Make Example for it

Test it

I

```
constructor()  
{  
  super();  
  this.state={  
    active:null,  
    who:null  
  }  
}  
componentDidUpdate()  
{  
  console.warn("componentDidUpdate")  
  this.setState({who:"anil sidhu"})  
}  
render() {  
  return (  
    <div>  
      <h1>React componentDidUpdate {this.state.who}</h1>  
      <button onClick={()=>{this.setState({active:"yes"})}}>A  
    </div>  
  )  
}
```

Its goes to the infinite loop

Maximum update depth exceeded. This can happen when a component repeatedly calls setState inside componentWillUpdate or componentDidUpdate. React limits the number of nested updates to prevent infinite loops.

► 5 stack frames were collapsed.

App.componentDidUpdate
src/App.js:14

```
11 | componentDidUpdate()  
12 | {  
13 |   console.warn("componentDidUpdate")  
> 14 |   this.setState({who:"anil sidhu"})  
15 | }  
16 | render() {
```

at App.componentDidUpdate (http://localhost:3000/static/js/main.chunk.js:43:10)
at commitLifeCycles (http://localhost:3000/static/js/0.chunk.js:26201:26)
at commitLayoutEffects (http://localhost:3000/static/js/0.chunk.js:29182:11)
at HTMLUnknownElement.callCallback (http://localhost:3000/static/js/0.chunk.js:5407:18)
at Object.invokeGuardedCallbackDev (http://localhost:3000/static/js/0.chunk.js:5456:20)
at invokeGuardedCallback (http://localhost:3000/static/js/0.chunk.js:5510:35)

ComponentDidUpdate()

Use this as an opportunity to operate on the DOM when the component has been updated. This is also a good place to do network requests as long as you compare the current props to previous props (e.g. a network request may not be necessary if the props have not changed).

```
componentDidUpdate(prevProps) {  
  // Typical usage (don't forget to compare props):  
  if (this.props.userID !== prevProps.userID) {  
    this.fetchData(this.props.userID);  
  }  
}
```

You **may call `setState()` immediately** in `componentDidUpdate()` but note that **it must be wrapped in a condition** like in the example above, or you'll cause an **infinite loop**. It would also cause an extra re-rendering which, while not visible to the user, can affect the component performance. If you're trying to "mirror" some state to a prop coming from above, consider using the prop directly instead. Read more about [why copying props into state causes bugs](#).

```
componentDidUpdate()  
{  
  console.warn("componentDidUpdate")  
  if(this.state.who==null)  
  {  
    this.setState({who:"anil sidhu"})  
  }  
}
```

ComponentWillUnmount:-

- If we delete the user and show the message user has delete.then use it

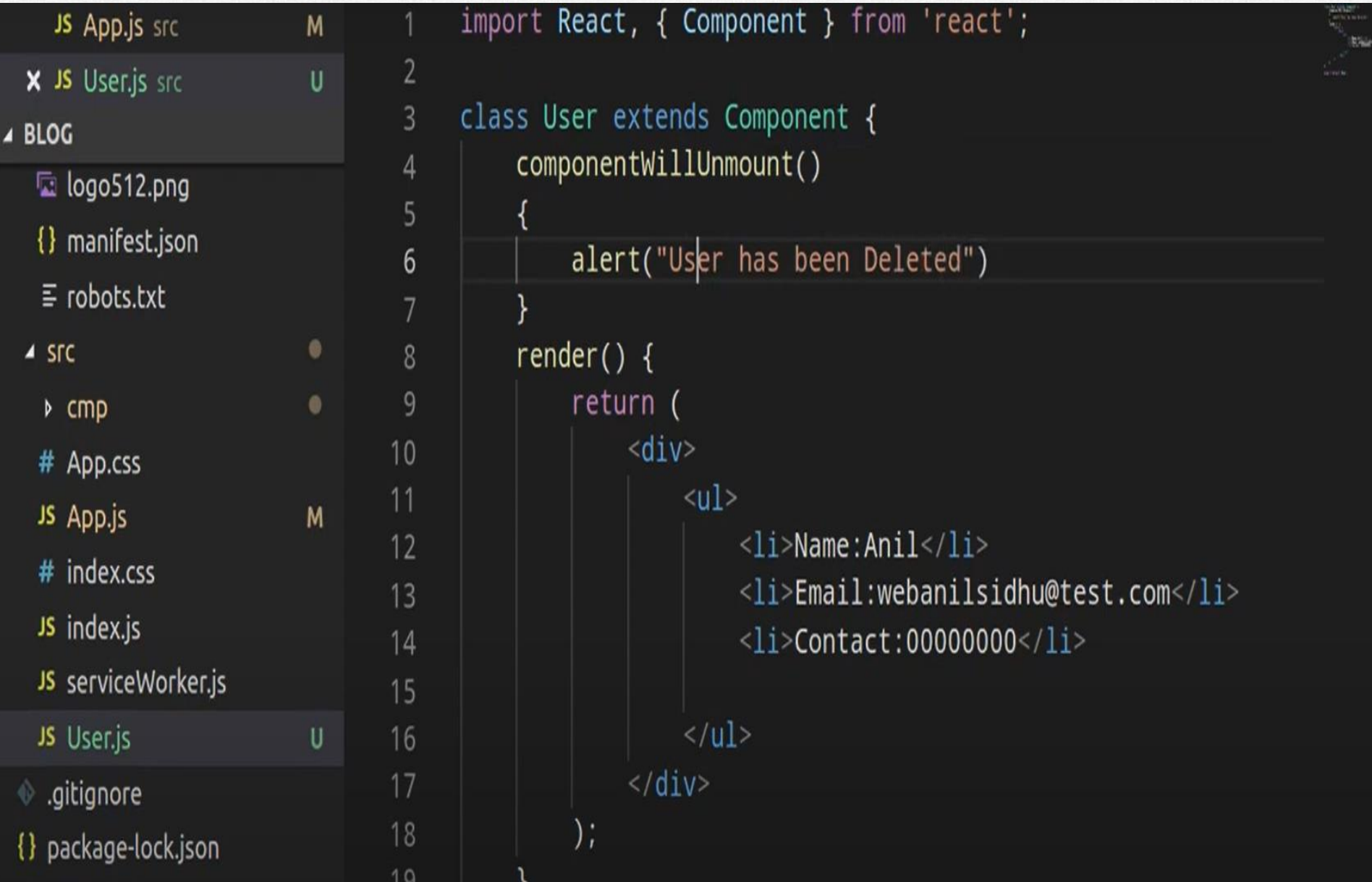
componentWillUnmount()

```
componentWillUnmount()
```

`componentWillUnmount()` is invoked immediately before a component is unmounted and destroyed. Perform any necessary cleanup in this method, such as invalidating timers, canceling network requests, or cleaning up any subscriptions that were created in `componentDidMount()`.

You **should not** call `setState()` in `componentWillUnmount()` because the component will never be re-rendered. Once a component instance is unmounted, it will never be mounted again.

Create a component user.js



The image shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with files like App.js, User.js, manifest.json, robots.txt, and a src directory containing cmp, App.css, index.css, index.js, serviceWorker.js, User.js, .gitignore, and package-lock.json. The code editor shows the content of User.js, which is a React component class extending Component. It has a componentWillUnmount method that alerts 'User has been Deleted' and a render method that returns a JSX element with a list of user details.

```
1 import React, { Component } from 'react';
2
3 class User extends Component {
4   componentWillUnmount()
5   {
6     alert("User has been Deleted")
7   }
8   render() {
9     return (
10       <div>
11         <ul>
12           <li>Name:Anil</li>
13           <li>Email:webanilsidhu@test.com</li>
14           <li>Contact:00000000</li>
15         </ul>
16       </div>
17     );
18   }
19 }
```

Call user.js in App.js

```
import React from 'react';
import User from './User'

class App extends React.Component {
  constructor()
  {
    super()
    this.state={
      toggle:true
    }
  }
  render() {
    return (
      <div>
        <h1>React : component will unmount</h1>
        <button onClick={()=>{this.setState({toggle:!this.state.toggle})}} >Delete User
      </div>
    );
  }
}
```

```
2 import User from './User'
3 class App extends React.Component {
4   constructor()
5   {
6     super()
7     this.state={
8       toggle:true
9     }
10  }
11  render() {
12    return (
13      <div>
14        <h1>React : component will unmount</h1>
15        {
16          this.state.toggle?
17            <User />
18          }
19        <button onClick={()=>{this.setState({toggle:!this.state.toggle})}} >Delete User</button>
20      </div>
21    );
22  }
23 }
```



```

}
render() {
  return (
    <div>
      <h1>React : com
      {
        this.state.to
        <User />:null
      }
      <button onClick={()=>{this.setState({toggle:!this.state.toggle})}} >Delete User</button>
    </div>
  );
}
}

```

isNullableTypeAnnotation

isNullLiteral

isNullLiteralTypeAnnotation

isNullOrUndefined

tsNullKeyword

tsNonNullExpression

isTSNonNullExpression

React : component will unmount

- Name:Anil
- Email:webanilsidhu@test.com
- Contact:00000000

Delete User



React : component will unmount

- Name:Anil
- Email:webanilsidhu@test.com
- Contact:00000000

Delete User

localhost:3000 says

User has been Deleted

OK

Thanks