Most Aaked Question in React Js?

How to Explain Life Cycle Method in React Hooks?

(*Functional component*)

usEffect()

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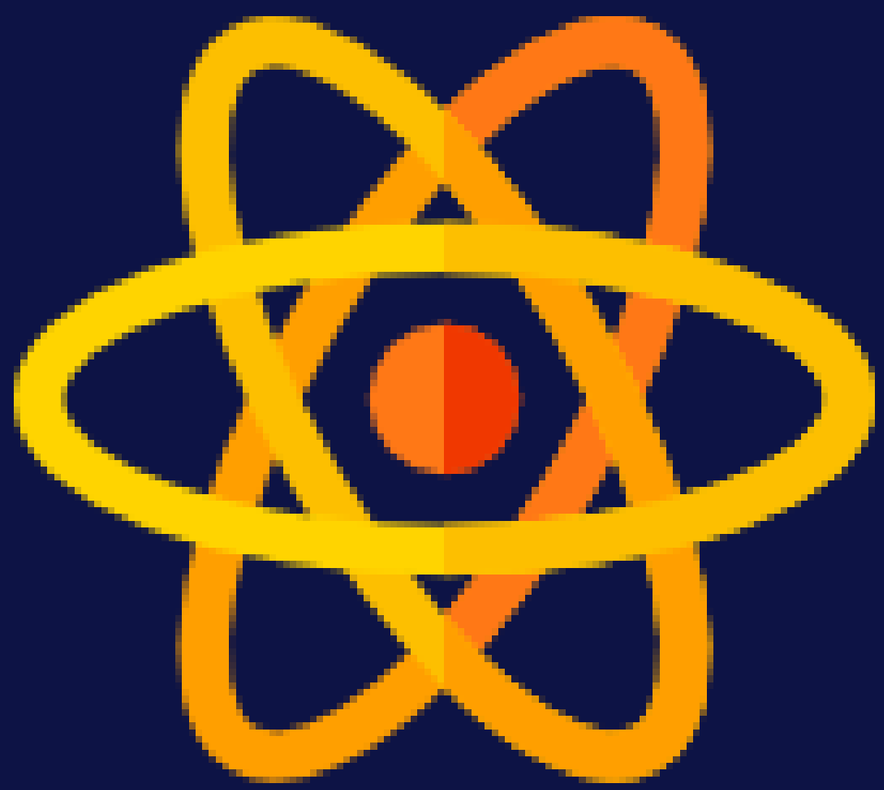
React has a life cycle

Mount

UnMount



Update

- Mounting, that is putting inserting elements into the DOM.
- Updating, which involves methods for updating components in the DOM.
- Unmounting, that is removing a component from the DOM.

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functional Component

- lifecycle methods is to use hooks. With the release of React 16.8 back in March 2019,
- it is now possible to create functional components that are not stateless and can use lifecycle methods.
- It’s all thanks to the useState and useEffect hooks – special functions that hook into React features that allow to set the initial state and use lifecycle events in functional components.
- it is possible to emulate the performance of almost any supported lifecycle method by skilfully applying these two hooks in your pure JavaScript functions.

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useEffect()

- The useEffect() in react is used to manage the side effects. It is one of the most commonly used react hooks.

- The useEffect() hook has two arguments - a callback function and a dependency array.

- The callback function is mandatory while the dependency array is optional.

Syntax:

```
useEffect( () => {

//code

}, [])
```

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componentDidMount

- The componentDidMount lifecycle method executes when the component is mounted. It means when the component is added to the DOM tree, this method should execute.

- The empty dependency array means that the hook will execute only once and it will be during the component mounting.

Example:

```
const Component = () => {
useEffect(() => {

console.log("Behavior before the component is added to the DOM");
}, []); // Mark [] here.
return <h1>Hello World</h1>;};
```

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componentDidUpdate

- The **componentDidUpdate** method executes only when the component updates
- Hook will execute only when the component **re-renders**. The only difference from the previous example is that **no dependency array** is provided.

Example:

```
const Component = () => {
useEffect(() => {

console.log("This code will execute when the component updates)

}); // Mark NO [] here.
return <h1>Hello World</h1>;};
```

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componentDidUpdate

- The componentDidUpdate method also works differently. We can provide an argument to it and it will execute only when the value of that argument is changed. We can do this in the functional component by adding a value(s) in the dependency array

- The useEffect() hook will execute only when the value of “count” is changed.

Example:

```
const Component = () => {
useEffect(() => {

console.log("Behavior  when  the  value  of  'Count'
changes.)

}[Count]); // Mark [Count] here.
return <h1>Hello World</h1>;};
```

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componentWillUnmount

- The componentWillUnmount() method executes when the component is unmounted, or removed from the DOM tree.

- This time, we have to return a function from the useEffect() hook. This function will execute only when the component is removed from the DOM tree, thus making it similar to the componentWillUnmount lifecycle method.

Example:

```
const Component = () => {
useEffect(() => {
return () => { // mark the return

console.log("Behavior right before the component is
removed from the DOM.)
}
}[]);
return <h1>Hello World</h1>;};
```

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Putting It All Together

Example:

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

const Component = () => {
 useEffect(() => {
 const intervalId = setInterval(() => {
 document.title = `Time is: ${new
Date()}`;
 }, 1000);

 return () => {
document.title = "Time stopped.";
clearInterval(intervalId);
}
}, []);

 return <h1>What time is it?</h1>;
};
```

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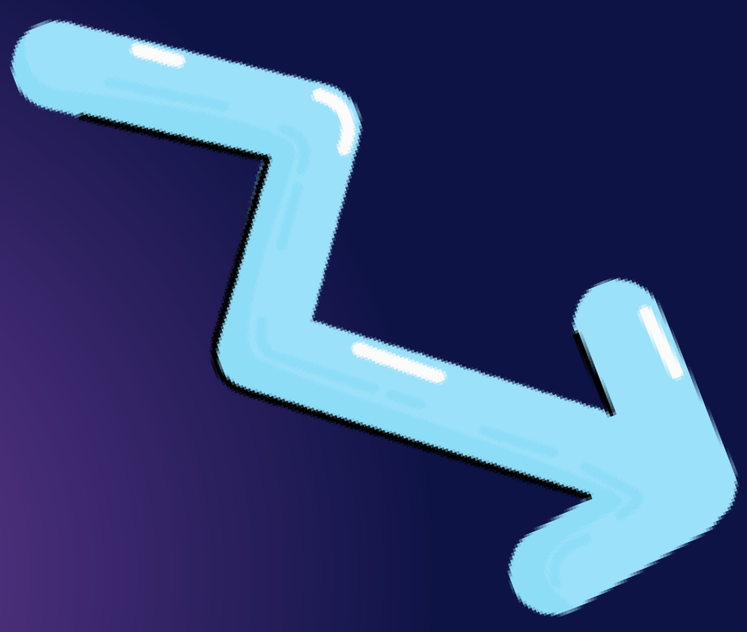

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