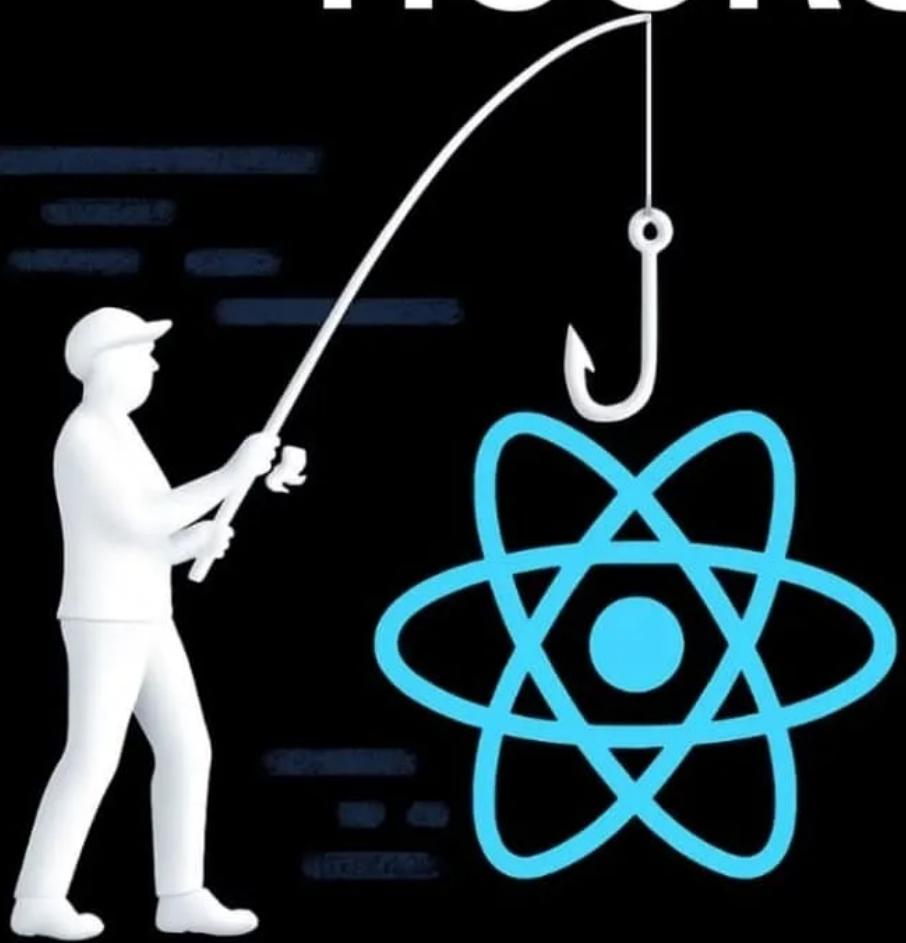


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REACT HOOKS



@codebyabi



1. useState

Creates an “**state variable**” which updates the component on change

useState is the most common hook in React. The hook needs 3 inputs to create a state.

- **Current state (count):** The name of the variable, which is equal to the current state.
- **Function (setCount):** A function which gets called to change the state.
- **Initial value (0):** The default value when page initialised

```
import { useState } from "react";

const App = () => {
  const [count, setCount] = useState(0);

  return (
    <div>
      <h1>{count}</h1>
      <button onClick={() => setCount(count + 1)}>
        Add 1 to count
      </button>
    </div>
  );
};
```

2. useEffect

A function which gets called every time the view gets mounted

useEffect is the most often used hook in React. The hook get 2 things

- **[]:** Runs only once on mount.
- **[count]:** Runs on mount and whenever count changes.

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

const App = () => {
  const [count, setCount] = useState(0);

  useEffect(() => {
    console.log("View Mounted");
  }, []);

  useEffect(() => {
    console.log("View Mounted or Count updated");
  }, [count]);

  // ...
};
```

3. useRef

It stores a value that can change without causing re-renders.

The most common use of useRef is to store a DOM element.

For example, in an input field, you can use it to access the current value directly.

```
import { useRef } from "react";

const App = () => {
  const inputRef = useRef();

  return (
    <input
      ref={inputRef}
      onChange={() => {
        console.log(inputRef.current.value);
      }}
    />
  );
};
```

4. useMemo

A function that runs only when a specific state or value changes

useMemo runs only when its dependencies change
useful to avoid re-running expensive code like API calls on every render.

```
import { useState, useMemo } from "react";

const App = () => {
  const [url, setUrl] = useState("https://api.com");

  const data = useMemo(() => {
    console.log("API called");
  }, [url]);

  return (
    <div>
      <button onClick={() => setUrl("https://newapi.com")}>
        Change URL
      </button>
    </div>
  );
};
```

5. useCallback

Works exactly like useMemo, but instead of returning a value, it returns a function.

useCallback is like useMemo, but it returns a function instead of a value.

It's useful when passing stable functions as props, so they only change when needed.

```
import { useState, useCallback } from "react";

const App = () => {
  const [count, setCount] = useState(0);

  const handleClick = useCallback(() => {
    console.log("Clicked! Count is:", count);
  }, [count]);

  return (
    <div>
      <button onClick={handleClick}>Click Me</button>
      <button onClick={() => setCount(count + 1)}>
        Add Count </button>
    </div>
  );
};
```

6. useCallback

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```
import { useState, useCallback } from "react";

const App = () => {
  const [count, setCount] = useState(0);

  const handleClick = useCallback(() => {
    console.log("Clicked! Count is:", count);
  }, [count]);

  return (
    <div>
      <button onClick={handleClick}>Click Me</button>
      <button onClick={() => setCount(count + 1)}>
        Add Count </button>
    </div>
  );
};
```

7. useLayoutEffect

useLayoutEffect works like **useEffect**, but it runs before the browser paints the screen.

Useful for measuring DOM size or making visual adjustments before render.

useEffect: Runs after the view is rendered (mounted).

useLayoutEffect: Runs before the view is rendered (mounted).

```
import { useLayoutEffect } from "react";

const App = () => {
  useLayoutEffect(() => {
    console.log("View has not mounted yet");
  }, []);
}

// ...

```