

useEffect

React Hooks Number 02

## useEffect Hook

### useEffect

**UseEffect is used to perform side effects in our component.**

### What is side Effect?

**Side effects are actions which are performed with the "Outside world".**

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**Side effects are actions which are performed with the "Outside world".**

**We perform a side effect when we need to reach outside of our React components to do something.**

# Some Common Side Effects

Fetching data from API

updating the DOM document  
& window

Timer functions `setTimeout`  
& `setInterval`

Function - side Effect logic



`useEffect( callback, dependencies )`



Array of variables  
(Optional)

**WHAT to run**



**useEffect( callback, dependencies )**



**WHEN to run**

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## **VARIATION OF USEEFFECT**

- useEffect without dependencies
- useEffect with empty array
- useEffect with variables

## 1) useEffect without any dependencies

```
App.js > App
import './App.css';
import React, { useState, useEffect } from 'react';

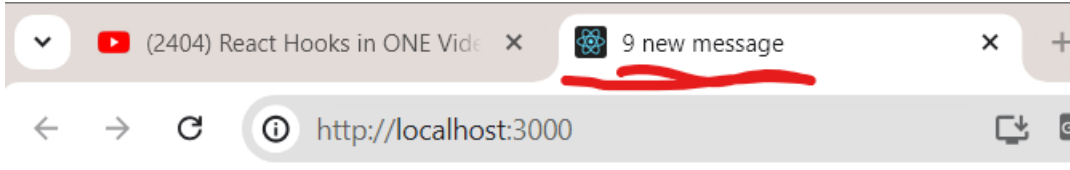
function App() {
  const [count, SetCount] = useState(0);

  useEffect(() => {
    document.title = `${count} new message`;
  });

  function increase() {
    SetCount(count + 1);
  }

  return (
    <div>
      <h1>Counter:{count}</h1>
      <button onClick={increase}>Increase</button>
    </div>
  );
}

export default App;
```



**Counter:9**

Increase

Here we are not using dependencies so useEffect will run for every change

## 2)useEffect with Empty array→

When we use Empty array as dependency it will render one time **that to** when it start

```
import './App.css';
import React, { useState, useEffect } from 'react';

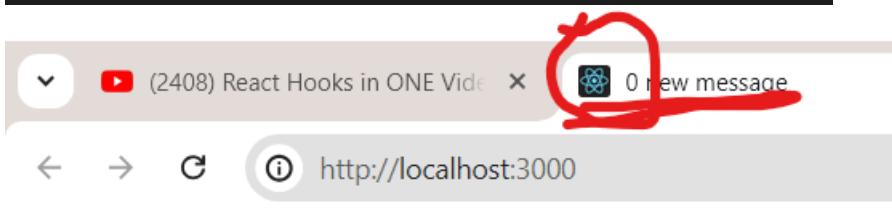
function App() {
  const [count, SetCount] = useState(0);

  useEffect(() => {
    document.title = `${count} new message`;
  }, []);

  function increase() {
    SetCount(count + 1);
  }

  return (
    <div>
      <h1>Counter:{count}</h1>
      <button onClick={increase}>Increase</button>
    </div>
  );
}

export default App;
```



# Counter **7**

Increase



### 3)useEffect with varbiles→

```
App.js > App
import './App.css';
import React, { useState, useEffect } from 'react';

function App() {
  const [count, SetCount] = useState(0);
  const [newCount, setNewCount] = useState(5);

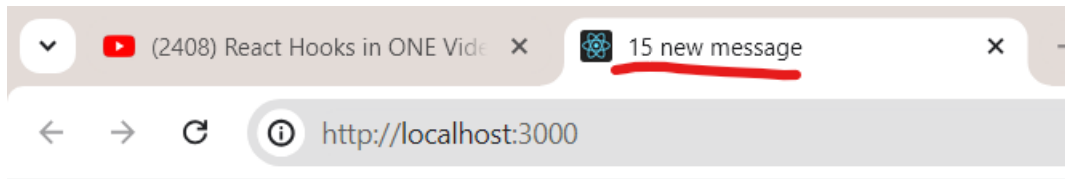
  useEffect(() => {
    document.title = `${newCount} new message`;
  }, [newCount]);

  function increase() {
    SetCount(count + 1);
  }

  function newIncrease() {
    setNewCount(newCount + 5);
  }

  return (
    <div>
      <h1>Counter:{count}</h1>
      <button onClick={increase}>Increase</button>
      <h1>New Counter:{newCount}</h1>
      <button onClick={newIncrease}>Increase by 5</button>
    </div>
  );
}

export default App;
```



**Counter:2**

Increase

**New Counter:15**

Increase by 5

### 3 VARIATION OF USEEFFECT

- useEffect without dependencies - it runs with first render and also run on any thing changes.
- useEffect with empty array - it runs only on first render.
- useEffect with variables - it runs on first render and runs with that variable

