

```
//useEffect

import { useEffect, useState } from "react";

const Deffect = () => {

  let [string, setString] = useState('String');

  let [value, setValue] = useState(0);


  let changeString = () => {

    if (string === 'String') {

      setString('Newstring')

    }

    else{

      setString('String')

    }

  }


  let changeValue = () => {

    setValue(value+1);

  }


  useEffect(() => {
```

```
console.log("Use effect worked");  
  
});
```

```
// useEffect(() => {  
  
// console.log("Use effect worked");  
  
// },[]);
```

```
// useEffect(() => {  
  
// console.log("Use effect worked");  
  
// },[value]);
```

```
// useEffect(() => {  
  
// console.log("Use effect worked");  
  
// },[string]);
```

```
// useEffect(() => {  
  
// console.log("Use effect worked");  
  
// },[value, string]);
```

```
// useEffect(() => {
```

```
// let fetchData = async () => {  
  
  // let response = await fetch('http://localhost:1000/users');  
  
  // let arrayofobject = await response.json();  
  
  // // console.log(data);  
  
  // setData(arrayofobject);  
  
  // }  
  
  // fetchData();  
  
  // }, []);  
  
return (  
  
  <div>  
  
    <div>  
  
      <h1>Update String</h1>  
  
      <h1>{string}</h1>  
  
      <button onClick={changeString}>Change String</button>  
  
    </div>  
  
    <div>  
  
      <h1>Update Value</h1>  
  
      <h1>{value}</h1>  
  
      <button onClick={changeValue}>Change Value</button>
```

```
</div>
```

```
</div>
```

```
);
```

```
}
```

```
export default Deffect;
```

```
.....
```

```
//useLocation
```

```
App.jsx
```

```
import './App.css';
```

```
import Useurl from './components/useurl';
```

```
import { BrowserRouter, Routes, Route } from 'react-router-dom';
```

```
function App() {
```

```
  return (
```

```
    <div className="App">
```

```
      <BrowserRouter>
```

```
        <Routes>
```

```
<Route path="/" element={<Useurl />}/>
```

```
</Routes>
```

```
</BrowserRouter>
```

```
</div>
```

```
);
```

```
}
```

```
export default App;
```

Useurl.jsx

```
import { useLocation } from "react-router-dom";
```

```
const Useurl = () => {
```

```
  let url=useLocation();
```

```
  return (
```

```
    <div>
```

```
      <h1>My URL is - {url.pathname}</h1>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default Useurl;
```

```
...
```

//Fetching data from the input tag using useState

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

```
const Forms = () => {
```

```
  let [email, setEmail] = useState("");
```

```
  let [password, setPassword] = useState("");
```

```
  let handleSubmit = (e) => {
```

```
    e.preventDefault() //to prevent reloading
```

```
    let data = { email, password }; 
```

```
    console.log(data);
```

```
  }
```

```
  return (
```

```
    <div className="forms" onSubmit={handleSubmit}>
```

```
      <form action="">
```

```
        <input type="email" value={email} placeholder="Enter your email id"
          onChange={(e) => setEmail(e.target.value)} /> <br />
```

```
        <input type="password" value={password} placeholder="Enter your
          password" onChange={(e) => setPassword(e.target.value)} />
```

```
        <button>Submit</button>
```

```
      </form>
```

```
</div>
```

```
);
```

```
}
```

```
export default Forms;
```

```
.....
```

```
//Fetching data from the input tag without re-render using UseReference
```

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

```
const UseReference = () => {
```

```
  let refvalue1 = useRef(null);
```

```
  let refvalue2 = useRef(null);
```

```
  let handleSubmit = (e) => {
```

```
    e.preventDefault();
```

```
    // console.log(refvalue1); // returns object
```

```
    // console.log(refvalue1.current); //returns entire input tag
```

```
    console.log(refvalue1.current.value); //actual value
```

```
    console.log(refvalue2.current.value); //actual value
```

```
  }
```

```
return (  
  <div>  
    <form action="" onSubmit={handleSubmit}>  
      <div>  
        <input type="text" ref={refvalue1} />  
      </div>  
      <div>  
        <input type="text" ref={refvalue2} />  
      </div>  
      <button>Submit</button>  
    </form>  
  </div>  
);  
}  
export default UseReference;  
....
```

```
useParams()
```

```
App.js
```



```
import { BrowserRouter, Routes, Route } from 'react-router-dom';

import Displayname from './components/displayname';

import Home from './components/home';

function App() {

  return (

    <div className="App">

      <BrowserRouter>

        <Routes>

          <Route path="/" element={<Home/>}/>

          <Route path="/displayname/:name" element={<Displayname/>}/>

        </Routes>

      </BrowserRouter>

    </div>

  );

}

export default App;
```

Home.js

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

import { Link } from 'react-router-dom';
```

```

const Home = () => {
  let [input, setInput] = useState("");
  return (
    <div className='Home'>
      <form action="">
        <input type="text" value={input} placeholder="Enter your name"
          onChange={(e) => setInput(e.target.value)} />
        <Link to={` /displayname/${input}`} >
          <button>Click me</button>
        </Link>
      </form>
      <h1>Your Name is - {input}</h1>
    </div>
  );
}

export default Home;

```

Displayname.js

```

import { useParams } from 'react-router-dom';

const Displayname = () => {
  let {name}=useParams();

```

```
return (  
  
<div>  
  
<h1>From the URL : Your Name is {name}</h1>  
  
</div>  
  
);  
  
}  
  
export default Displayname;
```

.....

```
useNavigate()
```

App.js

```
import { BrowserRouter, Routes, Route } from 'react-router-dom';  
  
import Displayname from './components/displayname';  
  
import Home from './components/home';  
  
function App() {  
  
  return (  
  
    <div className="App">  
  
      <BrowserRouter>
```

```
<Routes>

<Route path="/" element={<Home />} />

<Route path="/displayname" element={<Displayname />} />

</Routes>

</BrowserRouter>

</div>

);

}

export default App;
```

Home.js

```
import { useNavigate } from 'react-router-dom';

const Home = () => {

let navigate = useNavigate();

let handle = () => {

navigate('/displayname')

}

return (

<div className='Home'>

<h1>Home Page</h1>
```

```
<button onClick={handle}>Click Here to Navigate</button>
```

```
</div>
```

```
);
```

```
}
```

```
export default Home;
```

Displayname.js

```
import { useNavigate } from 'react-router-dom';
```

```
const Displayname = () => {
```

```
  let navigate = useNavigate();
```

```
  let handle = () => {
```

```
    navigate(-1)
```

```
  }
```

```
  return (
```

```
    <div>
```

```
      <h1>Welcome</h1>
```

```
      <button onClick={handle}>Go Back</button>
```

```
    </div>
```

```
  );
```

```
}
```

```
export default Displayname;
```