

## DICA | BCA

Academic Year 2024-25 | Semester-5

**Practical Solution** 

Faculty: Prof. Chirag K. Sakhrani

## Subject: 2104CS512 – JavaScript Framework

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Lab	Туре	Practical
III.	ReactJS	
LAB- 15	A A A B	<ol> <li>Implementing Routing in ReactJS.</li> <li>Develop basic website using 5 different component (pages) and implement Routing in it. (i.e. About, Contact etc).</li> <li>Demonstrate useState hook in ReactJS.</li> <li>Demonstrate useEffect hook in ReactJS.</li> <li>Print "Hello world" after every 5 seconds also have a state named count which updates when we click on the button.</li> </ol>





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```
Assignment 1: Implementing Routing in ReactJS.
Assignment 2: Develop basic website using 5 different component (pages) and implement Routing in it. (i.e. About, Contact etc...).
```

## File name: index.js

```
import React from "react";
import ReactDOM from "react-dom/client";
import "./index.css";
import App from "./App";
import { BrowserRouter, Routes, Route } from "react-router-dom";
import Layout from "./Layout";
import About from "./About";
import Contact from "./Contact";
import Help from "./Help";
import Shop from "./Shop";
import Home from "./Home";
import Counter from "./Counter";
import UseEffectDemo from "./useEffectDemo";
import UseStateDemo from "./useStateDemo";
import PintInFiveSecond from "./77B";
const root = ReactDOM.createRoot(document.getElementById("root"));
root.render(
    <BrowserRouter>
      <Routes>
        <Route element={<Layout />} >
          <Route path="/" element={<UseStateDemo/>}/>
          <Route path="/about" element={<About/>}/>
          <Route path="/shop" element={<Shop/>}/>
          <Route path="/app" element={<App/>}/>
          <Route path="/contect" element={<Contact/>}/>
          <Route path="/home" element={<Home/>}/>
          <Route path="/counter" element={<Counter/>}/>
          <Route path="/useEffect" element={<UseEffectDemo/>}/>
          <Route path="/77b" element={<PintInFiveSecond/>}/>
        </Route>
      </Routes>
    </BrowserRouter>
```

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# File name: Layout.js

```
//Layout.js
import React from 'react';
import { Outlet } from 'react-router-dom';
import { useNavigate } from 'react-router-dom';
function Layout() {
  const navigate = useNavigate()
 return (
   <div>
     <u1>
        <button onClick={()=>navigate('/shop')}>shop</button>
        <button onClick={()=>navigate('/about')}>about</button>
        <button onClick={()=>navigate('/app')}>app</button>
        <button onClick={()=>navigate('/home')}>home</button>
        <button onClick={()=>navigate('/contect')}>contact</button>
        <button onClick={()=>navigate('/counter')}>counter
        <button onClick={()=>navigate('/useEffect')}>useEffect</button>
        <button onClick={()=>navigate('/77b')}>Print in five seconds</button>
      <Outlet />
   </div>
  );
export default Layout;
```

```
//About.js
import React from 'react';

const About = () => {
    return(<h1>About</h1>)
};

export default About;
```

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```
//Counter.js
import React, { useState } from 'react';

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

   function increment() {
      setCount(prev => prev + 1);
   }
}
```





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Assignment 3: Demonstrate useState hook in ReactJS.

File name: useStateDemo.js



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Assignment 4: Demonstrate useEffect hook in ReactJS.

File name: useEffectDemo.js

```
//useEffectDemo.js
import React, { useEffect, useState } from 'react'

const UseEffectDemo = () => {
    const [data,setData]=useState(0)
    useEffect(()=>{
        console.log("use effect worked only first time load")
    },[])

    useEffect(()=>{
        console.log("use effect when state of data is changed")
    },[data])
    console.log("every time")
    return (
    <>
        <buttoon onClick={()=>setData(data+1)}>click</button>
        </>
    )
}

export default UseEffectDemo
```





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Assignment 5: Print "Hello world" after every 5 seconds also have a state named count which updates when we click on the button.

File name: 77B.js

```
import React, { useEffect, useState } from 'react'
function PintInFiveSecond() {
    const [count, setCount] = useState(0);
    useEffect(() => {
        const interval = setInterval(() => {
            console.log("Hello world");
       }, 5000);
        // Cleanup interval on component unmount
        return () => clearInterval(interval);
    }, []); // Empty dependency array to run only once after the initial render
    function increment() {
        setCount(prev => prev + 1);
            <h1>{count}</h1>
            <button onClick={increment}>Add</button>
   );
export default PintInFiveSecond
```