**Practical No.: 08**

**Aim:** **React Routing**

**Implement routing using React Router.**

a) Create three main pages: Home, About, and Contact. Each page should have a unique URL path. Implement navigation links to switch between the pages.

b) Implement nested routing. Let the contact component have two nested links Add and Display contact.

**React Router Installation :**

npm install react-router-dom@6

**Code:**

**index.js:**

import React from 'react';

import ReactDOM from 'react-dom';

import './index.css';

import App from './App';

import reportWebVitals from './reportWebVitals';

import { BrowserRouter } from "react-router-dom";

ReactDOM.render(

<BrowserRouter>

<App />

</BrowserRouter>,

document.getElementById("root")

);

reportWebVitals();

**Home.js:**

import React from 'react'

import { Link } from "react-router-dom";

function Home() {

return (

<div>

<h1>This is the home page</h1>

<Link to="about">Click to view our about page</Link>

<br/>

<Link to="contact">Click to view our contact page</Link>

</div>

);

}

export default Home

**About.js:**

import React from 'react'

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

function About() {

return (

<div>

<h1>This is the about page.</h1>

<Link to="/">Go back to home</Link>

</div>

)

}

export default About

**Contact.js:**

import React from 'react'

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

function Add() {

return (

<div>

<h2>Add Contact</h2>

</div>

);

}

function Contact() {

return (

<div>

<h1>This is the contact page</h1>

<Link to="/">Go back to home</Link>

<nav>

<ul>

<li>

<Link to="add">Add Contact</Link>

</li>

<li>

<Link to="/contact/display">Display Contacts</Link>

</li>

</ul>

</nav>

<Routes>

<Route path="add" element={<Add />} />

</Routes>

</div>

);

}

export default Contact

**App.js:**

import { Routes, Route } from "react-router-dom"

import Home from './myComp/Home';

import About from './myComp/About';

import Contact from './myComp/Contact';

function App() {

return (

<div className="App">

<Routes>

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

<Route path="about" element={ <About/> } />

<Route path="contact" element={ <Contact/> } />

</Routes>

</div>

);

}

export default App;

**Output:**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated