**9.**Design a React application that demonstrates the implementation of routing using the react-router-dom library. The application should include the Navigation Menu: Create a navigation bar with links to three distinct pages, Home, About, Contact. Develop separate components for each page (Home, About, and Contact) with appropriate content to differentiate them. Configure routes using react-router-dom to render the corresponding page component based on the selected link. Use BrowserRouter and Route components for routing. Highlight the active link in the navigation [menu](https://vtucircle.com/BCSL657B-Program-9/) to indicate the current page.

**Home.js**

import React from 'react';

const Home = () => {

return (

<div>

<h2>Home Page</h2>

<p>Welcome to the Home Page!</p>

</div>

);

};

export default Home;

**About.js**

import React from 'react';

const About = () => {

return (

<div>

<h2>About Page</h2>

<p>Learn more about us on the About Page!</p>

</div>

);

};

export default About;

**Contact.js**

import React from 'react';

const Contact = () => {

return (

<div>

<h2>Contact Page</h2>

<p>Get in touch with us through the Contact Page!</p>

</div>

);

};

export default Contact;

**Navbar.js**

import React from 'react';

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

const Navbar = () => {

return (

<nav>

<ul>

<li>

<NavLink

to="/"

className={({ isActive }) => (isActive ? 'active' : '')}

>

Home

</NavLink>

</li>

<li>

<NavLink

to="/about"

className={({ isActive }) => (isActive ? 'active' : '')}

>

About

</NavLink>

</li>

<li>

<NavLink

to="/contact"

className={({ isActive }) => (isActive ? 'active' : '')}

>

Contact

</NavLink>

</li>

</ul>

</nav>

);

};

export default Navbar;

**App.js**

import React from 'react';

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

import Navbar from './components/Navbar';

import Home from './components/Home';

import About from './components/About';

import Contact from './components/Contact';

import './App.css'

const App = () => {

return (

<Router>

<div>

<Navbar />

<div style={{ padding: '20px' }}>

<Routes>

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

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

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

</Routes>

</div>

</div>

</Router>

);

};

export default App;

**Index.js**

import React from 'react';

import ReactDOM from 'react-dom/client';

import App from './App';

const rootElement = document.getElementById('root');

const root = ReactDOM.createRoot(rootElement);

root.render(<App />);