**Assignment 8: React Router**

**Set up React Router for navigation.**

**Create routes and navigation between different components.**

React Router is a powerful library for handling navigation in React applications. Here's a step-by-step guide on how to set up React Router, create routes, and enable navigation between different components.

Step 1: Install React Router

npm install react-router-dom

Step 2: Set up Routes

Create a new file, say AppRouter.js, to set up your routes:

| // AppRouter.js  import React from 'react';  import { BrowserRouter as Router, Route, Switch, Link } from 'react-router-dom';  import Home from './Home';  import About from './About';  import Contact from './Contact';  const AppRouter = () => {  return (  <Router>  <div>  <nav>  <ul>  <li>  <Link to="/">Home</Link>  </li>  <li>  <Link to="/about">About</Link>  </li>  <li>  <Link to="/contact">Contact</Link>  </li>  </ul>  </nav>  <Switch>  <Route path="/about">  <About />  </Route>  <Route path="/contact">  <Contact />  </Route>  <Route path="/">  <Home />  </Route>  </Switch>  </div>  </Router>  );  };  export default AppRouter; |
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Step 3: Create Components

Create the Home.js, About.js, and Contact.js components:

| // Home.js  import React from 'react';  const Home = () => {  return <div>Home Component</div>;  };  export default Home; |
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| // About.js  import React from 'react';  const About = () => {  return <div>About Component</div>;  };  export default About; |
| --- |

| // Contact.js  import React from 'react';  const Contact = () => {  return <div>Contact Component</div>;  };  export default Contact; |
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Step 4: Integrate Router in App

Now, integrate the router into your main App.js:

| // App.js  import React from 'react';  import AppRouter from './AppRouter';  const App = () => {  return (  <div>  <h1>React Router Example</h1>  <AppRouter />  </div>  );  };  export default App; |
| --- |

Step 5: Run the App

Start your development server:

npm start

Visit http://localhost:3000 in your browser, and you should see your React Router app with navigation between different components.

This is a basic setup, and you can customize it further based on your application needs. React Router provides more advanced features like nested routes, route parameters, and navigation guards, so feel free to explore the documentation for more options: React Router Documentation.