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Assignment 18

App.jsx

import React from 'react';

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

import Home from './Home';

import About from './About';

import Dashboard from './Dashboard';

import './index.css'; // Assuming you might have some basic global styles here

function App() {

  return (

    <div className="App bg-white min-h-screen">

      <Routes>

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

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

        <Route path="/dashboard/:id" element={<Dashboard />} /> {/\* Dynamic Route \*/}

        {/\* Optional: A route for when no other route matches \*/}

        <Route path="\*" element={<h1 className="text-center text-red-500 text-3xl p-8">404 - Page Not Found</h1>} />

      </Routes>

    </div>

  );

}

export default App;

Home.jsx

import React from 'react';

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

function Home() {

  return (

    <div className="p-8 text-center">

      <h1 className="text-3xl font-bold mb-6">Welcome to the Feature Management Dashboard</h1>

      <nav className="mb-8">

        <ul className="flex justify-center space-x-6">

          <li>

            <Link to="/" className="text-blue-600 hover:underline text-lg">Home</Link>

          </li>

          <li>

            <Link to="/about" className="text-blue-600 hover:underline text-lg">About</Link>

          </li>

        </ul>

      </nav>

      <h2 className="text-2xl font-semibold mb-4">Explore Dynamic Feature Data:</h2>

      <ul className="flex flex-col items-center space-y-3">

        <li>

          <Link to="/dashboard/feature-alpha" className="text-green-600 hover:underline text-lg">

            Go to Dashboard for Feature Alpha

          </Link>

        </li>

        <li>

          <Link to="/dashboard/user-segmentation" className="text-green-600 hover:underline text-lg">

            Go to Dashboard for User Segmentation

          </Link>

        </li>

        <li>

          <Link to="/dashboard/experiment-123" className="text-green-600 hover:underline text-lg">

            Go to Dashboard for Experiment 123

          </Link>

        </li>

      </ul>

    </div>

  );

}

export default Home;

About.jsx

import React from 'react';

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

function About() {

  return (

    <div className="p-8">

      <h1 className="text-3xl font-bold mb-4">About This Dashboard</h1>

      <p className="text-lg mb-6">

        This application demonstrates basic page navigation using React Router DOM.

        It's designed as a simplified feature management dashboard.

      </p>

      <p className="text-lg">

        You can navigate between the Home, About, and dynamic Dashboard pages.

      </p>

      <div className="mt-8">

        <Link to="/" className="text-blue-600 hover:underline text-lg">Back to Home</Link>

      </div>

    </div>

  );

}

export default About;

Dashboard.jsx

import React from 'react';

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

function Dashboard() {

  const { id } = useParams(); // Get the 'id' parameter from the URL

  return (

    <div className="p-8">

      <h1 className="text-3xl font-bold mb-4">Dashboard Page</h1>

      <p className="text-xl mb-6">

        Displaying feature data for: <span className="font-semibold text-purple-700">"{id || 'No ID provided'}"</span>

      </p>

      {id && (

        <div className="bg-gray-100 p-4 rounded-md shadow-sm">

          <h2 className="text-2xl font-semibold mb-2">Details for {id}:</h2>

          <p className="text-gray-700">

            Here you would fetch and display specific data related to the feature ID: {id}.

            This could include feature flags, user segments, experiment results, etc.

          </p>

          <ul className="list-disc list-inside mt-4 text-gray-600">

            <li>Status: Active</li>

            <li>Users impacted: 10,000</li>

            <li>Last updated: 2025-06-10</li>

          </ul>

        </div>

      )}

      {!id && (

        <p className="text-red-500">

          Please navigate here using a dynamic ID (e.g., `/dashboard/your-feature-name`).

        </p>

      )}

      <div className="mt-8">

        <Link to="/" className="text-blue-600 hover:underline text-lg">Back to Home</Link>

      </div>

    </div>

  );

}

export default Dashboard;

Index.css

@import "tailwindcss";

/\* You can add any global styles here if needed \*/

body {

  font-family: Arial, sans-serif;

  margin: 0;

  padding: 0;

  box-sizing: border-box;

}

.App {

  max-width: 1200px;

  margin: 0 auto;

  padding: 20px;

}

Readme.md

**# React Router DOM for Page Navigation**

This project demonstrates the implementation of client-side routing in a React application using `React Router DOM`. It showcases navigation between multiple pages and the ability to handle dynamic URL parameters.

**## Project Setup**

1.  **\*\*Create a new Vite React project:\*\***

    ```bash

    npm create vite@latest react-router-demo --template react

    cd react-router-demo

    ```

2.  **\*\*Install project dependencies:\*\***

    ```bash

    npm install

    ```

3.  **\*\*Install React Router DOM:\*\***

    ```bash

    npm install react-router-dom

    ```

**## How React Router DOM is Used**

**### 1. BrowserRouter Setup (`src/main.jsx`)**

The entire React application is wrapped within the `BrowserRouter` component in `src/main.jsx`. This enables the routing capabilities for all components within the application.

```jsx

// src/main.jsx

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

// ...

ReactDOM.createRoot(document.getElementById('root')).render(

  <React.StrictMode>

    <BrowserRouter>

      <App />

    </BrowserRouter>

  </React.StrictMode>,

);

Screenshot

