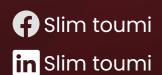




React Router DOM V6 Basics

Quick & Easy Guide for Beginners!









Why Use React Router?

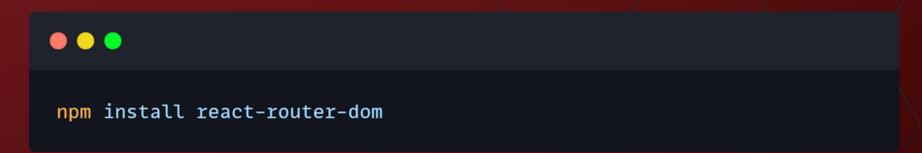
React Router DOM is a tool that helps you add multiple pages to your React app, so users can click around without reloading the page. It's perfect for creating a smooth, fast experience in a Single Page Application (SPA), where only parts of the page update as users navigate.

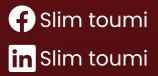
With React Router DOM, you can:

- **Set Up Different Pages:** Create routes so users can visit URLs like /home or /about to see specific content.
- Link Pages Together: Use links to let users navigate easily without reloading the page.
- Handle 404 Pages: Show a custom "Page Not Found" message if someone tries to visit a page that doesn't exist.

Install React Router DOM

In your project folder, open the terminal and install React Router with this command:







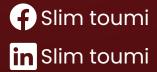


Basic Setup in App.js

In your main App.js file, you need to set up BrowserRouter, Routes, and Route to define each page (or route) in your app.

Explanation

- BrowserRouter: Wraps the entire app to enable routing.
- Routes: Holds all individual <Route> elements.
- Route: Defines a page. The path is the URL, and element is the component to display.







Creating Page Components

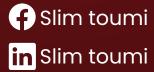
Let's create two simple pages: **Home** and **About**. In your src folder, make two new files: **Home.js** and **About.js**.

Home.js:

```
function Home() {
  return <h1>Welcome to the Home Page! </h1>;
}
export default Home;
```

About.js:

```
function About() {
  return <h1>This is the About Page! </h1>;
}
export default About;
```







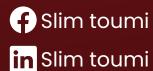
Adding Navigation Links

To move between pages without reloading, use **<Link>**. Add a simple navigation menu using **<Link>** in a new component called **Navbar.js**.

Navbar.js:

Explanation

- Link: Creates clickable navigation to different pages in the app.
- to: Specifies the URL path to navigate to when clicked.
- Difference from <a> Tag: Unlike <a>, which reloads the entire page, Link updates the URL and content without a full reload, ensuring a smoother user experience while preserving the application state.





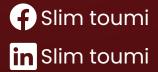


Now, add this **Navbar** /> component to App.js so it appears on every page:

Navbar.js:

Explanation

Navbar Outside of Routes: By placing <Navbar /> outside of <Routes>, the navigation bar is always displayed, no matter which page or route the user is on. This makes the navbar accessible on all pages.







Handling Unknown Routes (404 Page)

To handle routes that don't exist, you can display a message using a simple NotFound component.

NotFound.js:

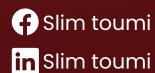
```
import React from 'react';

export default function NotFound() {
  return <h1>404 - Page Not Found</h1>;
}
```

Import the **NotFound** component in **App.js** and include it in the JSX. The * in the route path serves as a catch-all for undefined routes, directing users to the **NotFound** component.

App.js:

```
import NotFound.js from './NotFound'
.
.
// In Routes (in App.js)
<Route path="*" element={<NotFound >>} >
```







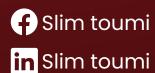
Navigating with a Button (Optional)

You can also navigate with a button click. Use the **useNavigate** hook to do this.

About.js:

Explanation

- The **useNavigate** hook from **react-router-dom** allows you to programmatically navigate between routes in your application.
- In this example, it creates a button that navigates the user back to the home page ('/') when clicked, allowing for smooth transitions without traditional link elements.







Your Final Project Structure

Your **src** folder should now look like this:

```
src

App.js // Main app with routing

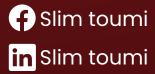
Navbar.js // Navigation links

Home.js // Home page component

About.js // About page component

NotFound.js // 404 Not Found page
```

This is a basic structure of your React application. You can further develop it by creating additional folders and components as needed to organize your code better.







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