

UNDERSTANDING REACT ROUTER BASICS



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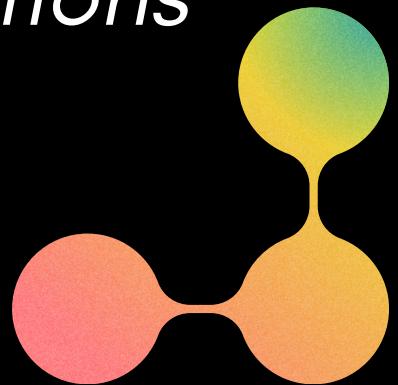


WHAT IS REACT ROUTER?

React Router is a powerful library for handling routing in React applications. It enables navigation between views or pages, making it easy to build single-page applications (SPAs) with dynamic, client-side routing.



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WHY USE REACT ROUTER?

- *Seamless Navigation:* Allows users to navigate without full-page reloads.
- *URL Management:* Keeps the UI in sync with the URL, enabling deep linking.
- *Modular Design:* Breaks the app into manageable, URL-based components.



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KEY COMPONENTS OF REACT ROUTER

- *BrowserRouter: Wraps the app and enables routing functionality.*
- *Routes: Defines the mapping of paths to components.*
- *Link: Provides navigation without full-page reloads.*



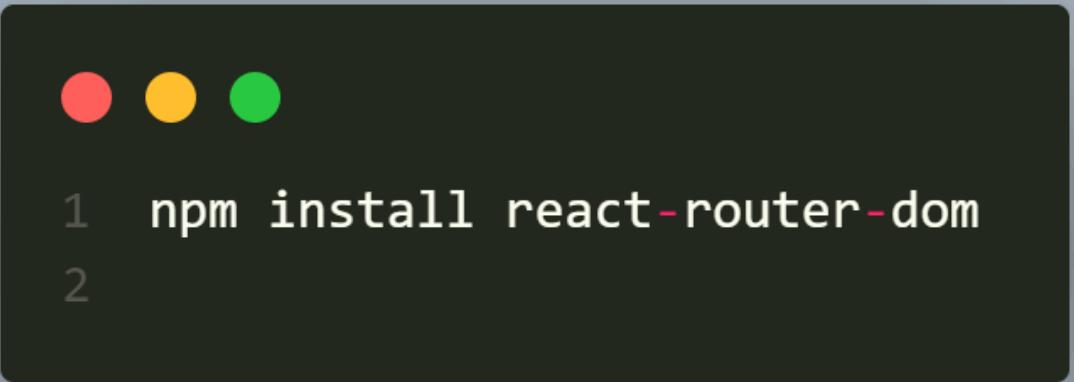
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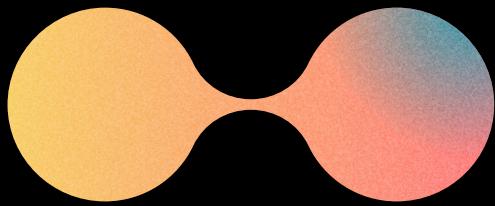
BASIC SETUP



To set up React Router, first install it using npm or yarn:



```
1 npm install react-router-dom  
2
```

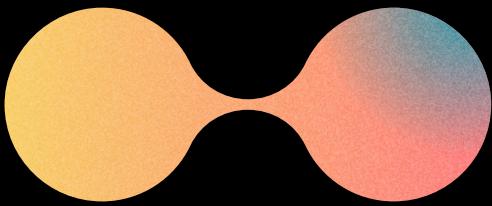


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Wrap your app with `BrowserRouter` and define routes:

5

```
● ● ●  
1 import { BrowserRouter, Routes, Route, Link } from 'react-router-dom';  
2  
3 function App() {  
4   return (  
5     <BrowserRouter>  
6       <nav>  
7         <Link to="/">Home</Link>  
8         <Link to="/about">About</Link>  
9       </nav>  
10      <Routes>  
11        <Route path="/" element={<Home />} />  
12        <Route path="/about" element={<About />} />  
13      </Routes>  
14    </BrowserRouter>  
15  );  
16}  
17
```



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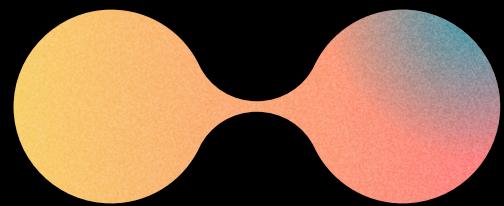


NAVIGATION & URL SYNC

- *Link Component:* Use `Link` to create navigation links without refreshing the page.
- *Routes & Route:* `Routes` acts as a container for `Route` elements, which define path-to-component mappings.



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THANK YOU

Master React Router to enhance your SPA's navigation and improve the overall user experience! 🌐✨



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