

# Internship Report

## Week 7 | Day 1

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**Topic:** React Router (Pages, Navigation)



## Mhat I Learned Today

Today, I learned about React Router, a powerful library used in React applications to manage client-side routing. It helps in building single-page applications (SPA) by allowing navigation between different views without full page reloads.

# **E** Key Concepts Covered

#### 1. React Router Setup

Installed using:

bash

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npm install react-router-dom

o Imported necessary components from react-router-dom.

## 2. Creating Pages

o Made separate files/components like Home.jsx, About.jsx, and Contact.jsx to represent different pages.

### 3. Routes Setup

- Used <BrowserRouter>, <Routes>, and <Route> to define routing logic.
- Example:

jsx

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<Routes>

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

```
<Route path="/about" element={<About />} />
<Route path="/contact" element={<Contact />} />
</Routes>
```

## 4. Navigation Between Pages

- o Used <Link> or <NavLink> for navigation without page reload.
- o Example:

jsx

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<NavLink to="/about">About</NavLink>

# 5. Active Class Styling with NavLink

Automatically applies a class when a link is active.

# **(2)** Key Takeaways

- React Router helps build dynamic, fast-loading SPAs.
- It improves user experience by preventing full-page refresh.
- Components like <Routes> and <NavLink> are essential for navigation.
- It's important to wrap the main component with <BrowserRouter> at the top level.