

# Training Day 15

**Day 15 - 9<sup>th</sup> July 2025**

## Topics Covered: React Routing with React Router DOM

Today, we learned and implemented **React Routing** using the react-router-dom package. Routing in React is used to create multi-page experiences within a single-page application.

### ◆ *Key Concepts Covered:*

- **BrowserRouter:** Acts as the wrapper that enables routing functionality.
- **Routes & Route:** Define the paths and the components to render.
- **Component-based Navigation:** Used components like HomePage, Mobile, Login, and Signup for different paths.
- **Persistent Navbar:** Placed `<Navbar />` outside `<Routes>` so it's always visible on every page.
- **JSX Fragment (`<>...</>`):** Used to return multiple elements without adding extra nodes.

### *Code Implemented:*

```
import { BrowserRouter, Route, Routes } from "react-router-dom";
import Mobile from "../components/Mobile";
import HomePage from "../components/HomePage";
import Login from "../components/Login";
import Signup from "../components/Signup";
import Navbar from "../components/Navbar";
```

```
const App = () => {
  return (
    <>
      <BrowserRouter>
        <Navbar />
        <Routes>
          <Route path="/mobile" element={<Mobile />} />
          <Route path="/" element={<HomePage />} />
          <Route path="/login" element={<Login />} />
        </Routes>
      </>
    </>
  );
};
```

```
        <Route path="/signup" element={<Signup />} />
      </Routes>
    </BrowserRouter>
  </>
);
};

export default App;
```

This demonstrates routing logic in React and how navigation is handled across different components.

### **Task for Tomorrow:**

- Learn how to create **dynamic routing** in React
- Practice conditional rendering based on route or login status