

# Lab Instruction - react-router-dom

## Objective:

- Be able to setup Router and Routes for your website.
- Be able to navigate through pages with react-router-dom components and hooks

## 1. Installation

```
sorra@oreo MINGW64 ~/codes/mentor105/React-lab-final (main)
$ npm i react-router-dom
```

## 2. Setup BrowserRouter in index.js

```
6  import { BrowserRouter } from "react-router-dom";
7
8  const root = ReactDOM.createRoot(document.getElementById("root"));
9  root.render(
10    <BrowserRouter>
11      <App />
12    </BrowserRouter>
13  );
14
```

### 3. Setup Routes in your App.js

```
App.js ×
src > App.js > ...
1  import { Route, Routes } from "react-router-dom";
2  import CalendarPage from "../pages/Calendar";
3  import HomePage from "../pages/Homepage";
4  import TodayPage from "../pages/Todaypage";
5  import TodoPage from "../pages/ToDoPage";
6
7  function App() {
8    return (
9      <Routes>
10        <Route exact path="/" element={<HomePage />} />
11        <Route path="/todo" element={<ToDoPage />} />
12        <Route path="/today" element={<TodayPage />} />
13        <Route path="/calendar" element={<CalendarPage />} />
14      </Routes>
15    );
16  }
17
18  export default App;
```

#### 4. In your BottomNav.jsx import “useNavigate” hook

```
1 import * as React from "react";
2 import BottomNavigation from "@mui/material/BottomNavigation";
3 import BottomNavigationAction from "@mui/material/BottomNavigationAction";
4 import RestoreIcon from "@mui/icons-material/Restore";
5 import { useNavigate } from "react-router-dom";
6 import { CalendarMonth, Today } from "@mui/icons-material";
7
8 export default function BottomNav() {
9   const [value, setValue] = React.useState("");
10  const navigate = useNavigate();
11  const handleChange = (event, newValue) => {
12    navigate(`/${newValue}`);
13  };
14
15  return (
16    <BottomNavigation
17      sx={{ width: "100%" }}
18      value={value}
19      onChange={handleChange}
20    >
```

and create handleChange() function to handle changing tab  
then pass it into onChange attribute in BottomNavigation

5. In Navbar.jsx component import NavLink component for navigating between each tab

```
1 import { NavLink } from "react-router-dom";
```

6. Wrap each <li> tag with the NavLink and set the “to” attribute to its path define in your App.js

```
8      <nav>
9        { /* Incoming */ }
10       <NavLink replace to="/todo" className="inactive-link">
11         { ({ isActive }) =>
12           isActive ? (
13             <li className="active-link">Incoming</li>
14           ) : (
15             <li>Incoming</li>
16           )
17         }
18       </NavLink>
19     </nav>
```

- Add className “inactive-link” in NavLink for styling the tab when it’s not clicked
- Add “replace” attribute so it replaces the navigate history with the current path
- Inside NavLink tag pass function that accept object “isActive”
- The function will return <li> tag with or without “active-link” based on the “isActive”

## 7. Do this with all the <li> tags

```
    { /* Incoming */ }
    <NavLink replace to="/todo" className="inactive-link">
      {({ isActive }) =>
        isActive ? (
          <li className="active-link">Incoming</li>
        ) : (
          <li>Incoming</li>
        )
      }
    </NavLink>

    { /* Today */ }
    <NavLink replace to="/today" className="inactive-link">
      {({ isActive }) =>
        isActive ? <li className="active-link">Today</li> : <li>Today</li>
      }
    </NavLink>

    { /* Calendar */ }
    <NavLink replace to="/calendar" className="inactive-link">
      {({ isActive }) =>
        isActive ? (
          <li className="active-link">Calendar</li>
        ) : (
          <li>Calendar</li>
        )
      }
    </NavLink>
```

8. Let's style the "inactive-link" and "active-link" in your Navbar.css

```
12 .inactive-link {  
13   color: black;  
14   text-decoration: none;  
15 }  
16  
17 .active-link {  
18   color: white;  
19   background-color: #a08bff;  
20   text-decoration: none;  
21 }
```

After applied active and inactive class to NavLink

## Tasks

Incoming

Today

Calendar