

# Exercise (Instructions): React Router

## Objectives and Outcomes

In this exercise we learn to use the React Router to configure and set up navigation among various pages in a React application. At the end of this exercise you will be able to:

- Install and configure your application to use React Router
- Configure the routes for React router to enable you to navigate to various pages within your React application

## Installing and Configuring React Router

- First install React Router into your project by typing the following at the prompt:

```
1 yarn add react-router-dom@4.2.2
```

- Then, open *App.js* and update it as follows:

```
1 . . .
1 import React from 'react';
2
3 function Home(props) {
4   return(
5     <div className="container">
6       <h4>Home</h4>
7     </div>
8   );
9 }
10
11 export default Home;
```

## Configuring the Router

- Open *MainComponent.js* file and update it as follows:

```
1 . . .
2
3 import Home from './HomeComponent';
4
5 . . .
6
7 import { Switch, Route, Redirect } from 'react-router-dom';
8
9 . . .
10
11
```

- Open *HeaderComponent.js* and update its contents with the following:

```
1 import { Nav, Navbar, NavbarBrand, NavbarToggler, Collapse, NavItem, Jumbotron }
  from 'reactstrap';
2 import { NavLink } from 'react-router-dom';
3
4 class Header extends Component {
5   constructor(props) {
6     super(props);
7
8     this.toggleNav = this.toggleNav.bind(this);
9     this.state = {
10       isNavOpen: false
11     };
12   }
13
14   toggleNav() {
15     this.setState({
16       isNavOpen: !this.state.isNavOpen
17     });
18   }
19
20   render() {
21     return (
22       <div>
23         <Navbar>
24           <NavbarBrand>React Router</NavbarBrand>
25           <NavbarToggler onClick={this.toggleNav}></NavbarToggler>
26           <Collapse navbar={true} isOpen={this.state.isNavOpen}>
27             <Nav>
28               <NavItem>
29                 <NavLink to="/home">Home</NavLink>
30               </NavItem>
31               <NavItem>
32                 <NavLink to="/about">About</NavLink>
33               </NavItem>
34               <NavItem>
35                 <NavLink to="/info">Info</NavLink>
36               </NavItem>
37             </Nav>
38           </Collapse>
39         </Navbar>
40       </div>
41     );
42   }
43 }
```

```

34         <NavLink className="nav-link" to="/menu"><span
35         className="fa fa-list fa-lg"></span> Menu
36         </NavLink>
37     </NavItem>
38     <NavItem>
39         <NavLink className="nav-link" to="/contactus"
40         ><span className="fa fa-address-card fa-lg"
41         ></span> Contact Us</NavLink>
42     </NavItem>
43 </Nav>
44 </Collapse>
45 </div>
46 </Navbar>
47 <Jumbotron>
48 }
49 }

```

- Then, open FooterComponent.js and update it as follows:

```

1  . . .
2
3  import { Link } from 'react-router-dom';
4
5  . . .
6
7      <li><Link to="/home">Home</Link></li>
8      <li><Link to="/aboutus">About Us</Link></li>
9      <li><Link to="/menu">Menu</Link></li>
10     <li><Link to="/contactus">Contact Us</Link></li>
11
12  . . .

```

- Open MenuComponent.js and remove the onClick() from the Card in the RenderMenuItem() function.
- Save all the changes and do a Git commit with the message "React Router".