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   . . .
2
3   import { BrowserRouter } from 'react-router-dom';
4
5   . . .
6
7       <BrowserRouter>
8         <div className="App">
9           <Main />
10        </div>
11      </BrowserRouter>
12
13  . . .
```

Add a Home Component

- Create a new file named HomeComponent.js in the components folder and add the following to it:

```
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  render() {
12
13
14      const HomePage = () => {
15          return(
16              <Home
17              />
18          );
19      }
20
21  . . .
22
23          <Switch>
24              <Route path='/home' component={HomePage} />
25              <Route exact path='/menu' component={() => <Menu dishes={this
                    .state.dishes} />} />
26              <Redirect to="/home" />
27          </Switch>
28
29  . . .
30
31
```

- 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 dark expand="md">
24                    <div className="container">
25                        <NavbarToggler onClick={this.toggleNav} />
26                        <NavbarBrand className="mr-auto" href="/"><img src
                             ='assets/images/logo.png' height="30" width="41" alt
                             ='Ristorante Con Fusion' /></NavbarBrand>
27                        <Collapse isOpen={this.state.isNavOpen} navbar>
28                            <Nav navbar>
29                                <NavItem>
30                                    <NavLink className="nav-link"  to='/home'><span
                                         className="fa fa-home fa-lg"></span> Home
                                         </NavLink>
31                                </NavItem>
32                                <NavItem>
33                                    <NavLink className="nav-link" to='/aboutus'
                                         ><span className="fa fa-info fa-lg"></span>
                                         About Us</NavLink>
34                                </NavItem>
35                                <NavItem>
36                                    <NavLink className="nav-link"  to='/menu'><span
                                         className="fa fa-list fa-lg"></span> Menu
                                         </NavLink>
37                                </NavItem>
38                                <NavItem>
39                                    <NavLink className="nav-link" to='/contactus'
                                         ><span className="fa fa-address-card fa-lg"
                                         ></span> Contact Us</NavLink>
40                                </NavItem>
41                            </Nav>
42                        </Collapse>
43                    </div>
44                </Navbar>
45                <Jumbotron>
46                    <div className="container">
47                        <div className="row row-header">
48                            <div className="col-12 col-sm-6">
49                                <h1>Ristorante con Fusion</h1>
50                                <p>We take inspiration from the World's best
                                     cuisines, and create a unique fusion
                                     experience. Our lipsmacking creations will
                                     tickle your culinary senses!</p>
51                            </div>
52                        </div>
53                    </div>
54                </Jumbotron>
55            </div>
56        );
57    }
58 }
59
```

- 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".

Conclusions

In this exercise you learn about installing, configuring and using the React Router for navigation within your React app.

Mark as completed