### 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:

yarn add react-router-dom@4.2.2

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

. . .

import { BrowserRouter } from 'react-router-dom';

. . .

<BrowserRouter>

<div className="App">

<Main />

</div>

</BrowserRouter>

. . .

#### Add a Home Component

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

import React from 'react';

function Home(props) {

return(

<div className="container">

<h4>Home</h4>

</div>

);

}

export default Home;

#### Configuring the Router

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

. . .

import Home from './HomeComponent';

. . .

import { Switch, Route, Redirect } from 'react-router-dom';

. . .

render() {

const HomePage = () => {

return(

<Home

/>

);

}

. . .

<Switch>

<Route path='/home' component={HomePage} />

<Route exact path='/menu' component={() => <Menu dishes={this.state.dishes} />} />

<Redirect to="/home" />

</Switch>

. . .

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

import { Nav, Navbar, NavbarBrand, NavbarToggler, Collapse, NavItem, Jumbotron } from 'reactstrap';

import { NavLink } from 'react-router-dom';

class Header extends Component {

constructor(props) {

super(props);

this.toggleNav = this.toggleNav.bind(this);

this.state = {

isNavOpen: false

};

}

toggleNav() {

this.setState({

isNavOpen: !this.state.isNavOpen

});

}

render() {

return(

<div>

<Navbar dark expand="md">

<div className="container">

<NavbarToggler onClick={this.toggleNav} />

<NavbarBrand className="mr-auto" href="/"><img src='assets/images/logo.png' height="30" width="41" alt='Ristorante Con Fusion' /></NavbarBrand>

<Collapse isOpen={this.state.isNavOpen} navbar>

<Nav navbar>

<NavItem>

<NavLink className="nav-link" to='/home'><span className="fa fa-home fa-lg"></span> Home</NavLink>

</NavItem>

<NavItem>

<NavLink className="nav-link" to='/aboutus'><span className="fa fa-info fa-lg"></span> About Us</NavLink>

</NavItem>

<NavItem>

<NavLink className="nav-link" to='/menu'><span className="fa fa-list fa-lg"></span> Menu</NavLink>

</NavItem>

<NavItem>

<NavLink className="nav-link" to='/contactus'><span className="fa fa-address-card fa-lg"></span> Contact Us</NavLink>

</NavItem>

</Nav>

</Collapse>

</div>

</Navbar>

<Jumbotron>

<div className="container">

<div className="row row-header">

<div className="col-12 col-sm-6">

<h1>Ristorante con Fusion</h1>

<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>

</div>

</div>

</div>

</Jumbotron>

</div>

);

}

}

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

. . .

import { Link } from 'react-router-dom';

. . .

<li><Link to='/home'>Home</Link></li>

<li><Link to='/aboutus'>About Us</Link></li>

<li><Link to='/menu'>Menu</Link></li>

<li><Link to='/contactus'>Contact Us</Link></li>

. . .

* 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.