

# Exercise (Instructions): Introduction to Redux

## Objectives and Outcomes

In this exercise you will learn to use Redux. You will install and configure Redux and use it within your React application. At the end of this exercise you will be able to:

- Install and configure Redux within your application
- Configure your React application to make use of Redux

## Installing and Configuring Redux

- As a first step you will install Redux and React-Redux into your application as follows:

```
1 yarn add redux@3.7.2
2 yarn add react-redux@5.0.7
```

- Next, create a folder named *redux* in the *src* folder and then add a file named *reducer.js* with the code below:

```
1 import { DISHES } from '../shared/dishes';
2 import { COMMENTS } from '../shared/comments';
3 import { PROMOTIONS } from '../shared/promotions';
4 import { LEADERS } from '../shared/leaders';
5
6 export const ConfigureStore = () => {
7   const store = createStore(
8     Reducer, // reducer
9     initialState, // our initialState
10   );
11   return store;
12 }
```

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

```
1 . . .
2
3
4 import { Provider } from 'react-redux';
5 import { ConfigureStore } from './redux/configureStore';
6
7 const store = ConfigureStore();
8
9
10 . . .
11
12 <Provider store={store}>
13   <BrowserRouter>
14     <div className="App">
15       <Main />
16       dishes: state.dishes,
17       comments: state.comments,
18       promotions: state.promotions,
19       leaders: state.leaders
20     </div>
21   </BrowserRouter>
22 </Provider>
23
24 . . .
25
26 const HomePage = () => {
27   return(
28     <Home
29       dish={this.props.dishes.filter((dish) => dish.featured)[0]}
30       promotion={this.props.promotions.filter((promo) => promo.featured)[0]}
31       leader={this.props.leaders.filter((leader) => leader.featured)[0]}
32     />
33   );
34 }
35
36 const DishWithId = ({match}) => {
37   return(
38     <DishDetail dish={this.props.dishes.filter((dish) => dish.id ===
39       .props.dishes} /> />
40     <Route path="/menu/:dishId" component={DishWithId} />
41     <Route exact path="/contactus" component={Contact} /> />
42     <Redirect to="/home" />
43   </Switch>
44 </div>
45 <Footer />
46 . . .
```

```
49     </div>
50   );
51 }
52 }
53
54 export default withRouter(connect(mapStateToProps)(Main));
55
```

- Save all the changes and do a Git commit with the message "Intro. to Redux".

## Conclusions

In this exercise you learnt to install and configure Redux and use it in your React application.