## Exercise (Instructions): Setting up Redux

## **Objectives and Outcomes**

In this exercise you will set up Redux in your React Native application. At the end of this exercise you will be able to:

- Set up Redux for your app
- · Create reducers, actions and action creators

## Setting up Redux

• First, set up Redux and allied packages by typing the following at the prompt in your project folder:

```
1 yarn add redux#4.0.0
2 yarn add redux#5.0.7
3 yarn add redux-thunk#2.2.0
4 yarn add redux-logger#3.0.6
```

- Find out the IP address of your computer. On a Mac, go to System Preferences->Network to find the IP address of your network
  adapter. If you are using a Microsoft Windows based machine, you can use the instructions available at
  <a href="http://windows.microsoft.com/en-us/windows/find-computers-ip-address#1TC=windows-7">http://windows.microsoft.com/en-us/windows/find-computers-ip-address#1TC=windows-7</a> to find your machine's IP address.
- Next, create a file named baseUrl.js in the shared folder and add the following to it:

```
1 export const baseUrl = 'http://<Your Computer\'s IP address>:3001/'
```

• For example, if your IP address is 192.168.1.121, then the above line should be as follows:

```
1 export const DISHES_LOADING = 'DISHES_LOADING';
2 export const ADD_DISHES = 'ADD_DISHES';
3 export const DISHES_FAILED = 'DISHES_FAILED';
4 export const ADD_COMMENTS = 'LOCOMMENTS';
5 export const COMMENTS_FAILED = 'COMMENTS_FAILED';
6 export const PROMOS_LOADING = 'PROMOS_LOADING';
7 export const ADD_PROMOS = 'ADD_PROMOS';
8 export const ADD_PROMOS = 'ADD_PROMOS';
9 export const DISHES_FAILED = 'PROMOS_FAILED';
10 export const DISHES_LOADING = 'LEADERS_LOADING';
11 export const LEADERS_LOADING = 'LEADERS_S';
11 export const LEADERS_FAILED = 'LEADERS_FAILED';
```

• Then, add a file named configureStore.js in the redux folder and add the following to it:

```
import {createStore, combineReducers, applyMiddleware} from 'redux';
import thunk from 'redux-thunk';
import { dishes } from 'redux-logger';
import { dishes } from './dishes';
import { comments } from './comments';
import { promotions } from './promotions';
import { leaders } from './leaders';
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                             dishes.
                             leaders
                        applyMiddleware(thunk, logger)
   20 21 3
                return store:
                                                             dishes:[]}, action) => {
                switch (action.type) {
  case ActionTypes.ADD_DISHES:
    return {...state, isLoading: false, errMess: null, dishes: action
    .payload};
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                    case ActionTypes.DISHES_LOADING:
                             return {...state, isLoading: true, errMess: null, dishes: []}
                     case ActionTypes.DISHES_FAILED:
                             return {...state, isLoading: false, errMess: action.payload};
                       default:
                         return state;
19 };
```

Then, add a file named comments.js in the redux folder and update it as follows:

```
8 return {...state, isLoading: false, errMess: null, leaders: action
```

```
g
case ActionTypes.LEADERS_LOADING:
return {...state, isLoading: true, errMess: null, leaders: []}

case ActionTypes.LEADERS_FAILED:
return {...state, isLoading: false, errMess: action.payload};

default:
return state;
}

19
};
```

• Then, add a file named promotions.js in the redux folder and add the following to it:

```
1 import * as ActionTypes from './ActionTypes';
 3 → export const promotions = (state = { isLoading: true,
                                                                                                    promotions:[]}, action) => {
                  switch (action.type) {
  case ActionTypes.ADD_PROMOS:
                            return {
                                                  ..state, isLoading: false, errMess: null, promotions: action
                                .payload};
                         case ActionTypes.PROMOS_LOADING:
10
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                                    return {...state, isLoading: true, errMess: null, promotions: []}
                          case ActionTypes.PROMOS_FAILED:
                                    return {...state, isLoading: false, errMess: action.payload};
                           default:
    return state;
 4 * export const fetch(omments = () => (dispatch) => {
5     return fetch(baseUrl + 'comments')
6     .then(response => {
                             if (response.ok) {
                          10
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                         error => {
    var errmess = new Error(error.message);
    throw errmess;
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22 };
                     .then(response => response.json())
.then(comments => dispatch(addComments(comments)))
.catch(error => dispatch(commentsFailed(error.message)));
 29 * export const addComments = (comments) => ({
30     type: ActionTypes.ADD_COMMENTS,
 31
32 });
                     payload: comments
 33
34 • export const fetchDishes = () => (dispatch) => {
 35
                   dispatch(dishesLoading());
                    return fetch(baseUrl + 'dishes')
  39 -
                     .then(response => {
                           40 -
 50
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52
                     then(response => response.json())
.then(dishes => dispatch(addDishes(dishes)))
.catch(error => dispatch(dishesFailed(error.message)));
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th
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59 });
                     type: ActionTypes.DISHES_LOADING
 61 - export const dishesFailed = (errmess) => ({
62     type: ActionTypes.DISHES_FAILED,
63     payload: errmess
 66 - export const addDishes = (dishes) => ({
                   type: ActionTypes.ADD_DISHES, payload: dishes
 69 });
 81
82
                                       error.response = response;
                                       throw error;
 85 +
                              error => {
 86
96 });
                                       var errmess = new Error(error.message):
  98 * export const promosFailed = (errmess) => ({
99 type: ActionTypes.PROMOS_FAILED,
100
                     payload: errmess
101 });
103 - export const addPromos = (promos) => ({
104 type: ActionTypes.ADD_PROMOS,
105
                     payload: promos
106 });
107
108 - export const fetchLeaders = () => (dispatch) => {
                    dispatch(leadersLoadina()):
```

```
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```

Save all the changes and do a Git commit with the message "Setting up Redux".

## Conclusions

In this exercise you have set up Redux support within your React Native app.