READYMADE BOILER PLATE WITH THE BASIC REACT APP with REDUX:

https://github.com/codewithbernard/react-redux-boilerplate

FOR THIS EXAMPLE - USE MY GIT:
YOUR FIRST REACT AND REDUX APP with API CALL: https://github.com/mz75/React_Redux_Axios_BoilerPlate

BASIC STEPS TO FOLLOW – TOTAL 8 STEPS:

INSTALL THE NORMAL REDUX PACKAGES + THUNK (THUNK IS THE DISPATCHER) & AXIOS AXIOSTHROUGH NPM

a. Install React App:

npx create-react-app my-app

// Reference: https://github.com/facebook/create-react-app#create-react-app-

b. Install Redux, Thung & axios:

npm install --save redux react-redux redux-thunk

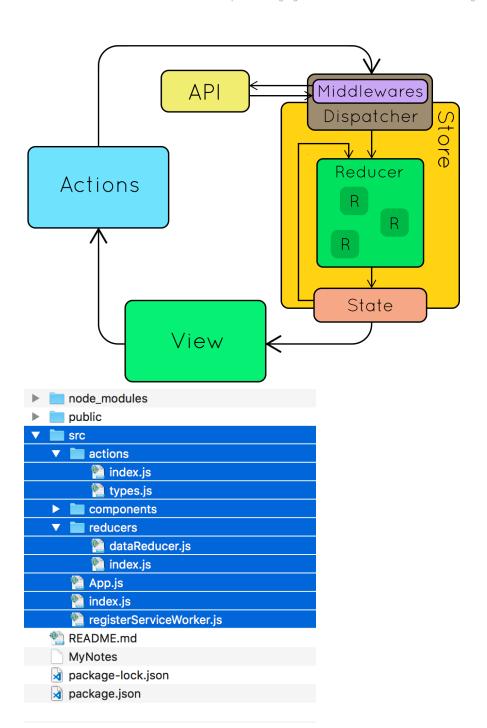
// Reference: https://github.com/gaearon/redux-thunk#redux-thunk

npm install --save axios

// Reference: https://www.npmjs.com/package/axios#installing

You need a chrome plugin called "ExtensionAllow-Control-Allow-Origin" for out of domain ajax calls.

// Reference: https://chrome.google.com/webstore/detail/allow-control-allow-origi/nlfbmbojpeacfghkpbjhddihlkkiljb



2. CREATE FOLDERS IN THE SRC FOLDER AKA ROOT FOLDER:

a. actions (The folder where you call the APIs – in our example)

DETAILS:

This folder must have a file called 'index.js',
This 'index.js' is the file where you will make the API calls and
check your self-defined data types by calling the 'types.js' file
(important: 'types.js' only returns a name against an alias – check file).

b. reducers (The folder where you perform actions on APIs – in our example)

DFTAILS

This folder must have a file called 'index.js' this is the record/collection of all reducers.

c. components (For normal react components – not used in our example)

DETAILS:

This folder has all your components you normally write in React

MAKE BASIC CHANGES INTO YOUR ROOT FOLDER'S INDEX.JS FILE (THE ROOT FOLDER VERSION)

```
// NPM TIP: To add npm package run npm install --save <package_name>
  // Default – No change
                        import React from "react";
 // Default – No change
                        import ReactDOM from "react-dom";
 // Default - No change
                        import App from "./App";
 // Default – No change
                        import registerServiceWorker from "./registerServiceWorker";
 // NEW: Call the Provider COMPONENT using 'react-redux' -
 // This component provides your app with 'store'
                        import { Provider } from "react-redux";
// NEW: Check the redux diagram-we need to create a store & apply middlewear
 // 'createStore'& 'applyMiddleware' are 'functions' that we are able to call once import them from redux.
// GENERALL RULE: If the first letter is capital than its likely to be a component and in other cases its likely to be a function or a variable.
                        import { createStore, applyMiddleware } from "redux";
// NEW: calling directory will automatically look for index.js & this is a file which imports other reducers and merge them. Mainly in our example it is "DataReducer.JS"
                        import reducers from "./reducers";
// NEW: Importing reduxThunk [which is the Dispatcher aka middlewear part]
                        import reduxThunk from "redux-thunk";
// NEW: Finally initiating the store and passing reducers plus middlewear as reduxThunk – because it's a dispatcher.
                        const store = createStore(reducers, applyMiddleware(reduxThunk));
// Default – No change
                        ReactDOM.render(
// NEW: Wrap the lone <App /> tag with <Provider store={store}> passing the store as attribute.
                       <Provider store={store}>
                       <App />
                       </Provider>, document.getElementById("root")
                       registerServiceWorker():
```

ACTIONS FOLDER CHANGES:

4. INDEX.JS IS TO BE CREATED INSIDE THE ACTIONS FOLDER.

DETAILS:

This is the file where you will call your main APIs using axios Here is a sample of the file code with details:

```
// Common import for both shortcut or longcut code.
                     import axios from "axios";
// Shortcut of the code
// NOTE- If you find this difficult to understand. I have a longcut version under this.
                    export const fetchData = () => async dispatch => {
                    const res = await axios.get("https://swapi.co/api/people");
                    dispatch({
                         type: FETCH_DATA,
                         payload: res.data.results
                    });
                     };
// Longcut of the code
// NOTE- If you find shortcut difficult to understand.
                    export const fetchData = () => {
                    return async dispatch => {
                         const res = await axios.get("https://swapi.co/api/people");
                         console.log(res);
                    };
                     };
```

5. TYPES.JS IS TO BE CREATED INSIDE THE ACTIONS FOLDER. DETAILS:

This is the file where for creating aliases for self-defined data types, returning a (const) variable only. Here is a sample of the file code with details:

```
// Plain strings for types
export const FETCH_DATA = "FETCH_DATA";
```

REDUCERS FOLDER CHANGES:

DATAREDUCER.JS IS TO BE CREATED INSIDE THE REDUCERS FOLDER. DETAILS:

Here is a sample of the file code with details:

7. INDEX.JS IS TO BE CREATED INSIDE THE REDUCERS FOLDER. DETAILS:

This is the file where you will combine all your reducers, but we have only one in our example "dataReducer.js" Here is a sample of the file code with details:

OTHERS:

8. RUN APPLICATION

DETAILS:

Write using terminal (inside the "react-redux-boilerplate" folder)