# Weather Monster App

## **Project setup**

Use the following commands to setup, launch and run the test of application

Clone the public repo with HTTPS https://github.com/javadmalek/react-redux-hook.git

```
cd react-redux-hook
npm install
npm start
npm run cypress:open
```

open: http://localhost:3000

- Compiles and hot-reloads for development npm start
- Compiles and minifies for production npm run build
- Open Cypress to test the application npm run cypress:open. In case you want to run the application on a different port, please, update cypress.json
- Lints and fixes files npm run lint

#### File structure

```
— README.md
cypress
  — fixtures
  ─ integration
  — element_test.spec.js
     └─ functionalities.spec.js
  ├─ plugins
  └─ support
- cypress.json
package.json
public
 ├─ favicon.ico
 ─ manifest.json
- src
  ├─ app.jsx
  ├─ app.test.js

    ── components

     ├─ select_city.js.jsx
      ─ show_cities.js.jsx
      weather_container.js.jsx
   — error
     error_boundary.js.jsx
   — index.css
   — index.js
    serviceWorker.js
  └─ store
      └─ index.js.jsx
```

10 directories, 26 files

### Main Components

- App renders as root component and re-use ErrorBoundary, Store, WeatherContainer Also, it is a state-less component.
- ErrorBoundary catch JavaScript errors anywhere in their child component tree, log those errors, and display a fallback UI instead of the component tree that crashed.
- Store it is a store for redux which contains the list of cities and their actions are ADD\_CITY,
   REMOVE\_CITY.
- WeatherContainer is the main container which renders the SelectCity, ShowCities and managing a state for their comunications. besides, it take in charge of fetch action.
- SelectCity is a stateless component just render the list of cities and call the parent callback.
- ShowCities is stateless component that subscribed to Redux-store and receives the list of cities then display in screen and have an action to remove a city

### Cypress Test

There are 3 integration tests as following: - Page Element Test which contains - Cheking hompage is up? - Cheking the existance of city select box and its title(Weather Monster) - Select city Gorgan and London from the list - Functionality Test which contains - Available endpoint www.openweathermap.org API and fetching for London - Trying to add London again and checking that the alert message is open? - Trying to add London and Gorgan and then find&click on remove London?

#### **CSS**

- Breakpoint at 1000px, flexbox would renders over column direction
- BEM method used for name conventin
- some components are build styled component not all.
- since it is clearly was mentioned in the task description that CSS and UI would not take into account, I
  did spend much time for that and it is done as fast as possible.

### Other topics

- babel
- eslinte

#### **Notes**

- Why Redux is used? because it is clearly asked in the task description otherwise it could even more easier to use contextApi or just passing props.
- I had a plan to use the fetch hook for retriving the data, but I ran out of time.
- It is possible to write more test, I just wrote for main boundary cases.
- no internationalisation