CMPS 350 Web
Lab 7 – Client-side JavaScript

Objective

The objective of this lab is to practice implementing Web UI and calling Web API using Client-side JavaScript. Particularly DOM manipulation, events handling and using Fetch API.

In this Lab you will implement a to-do web app. Then you will develop Countries Explorer web app to explore the world countries.

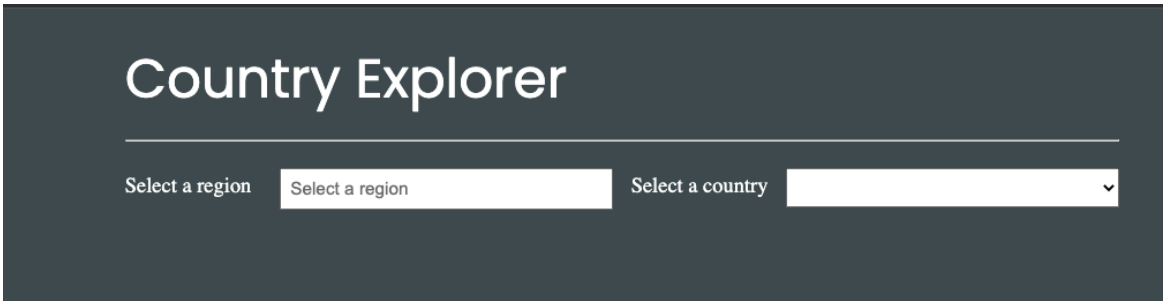
Preparation

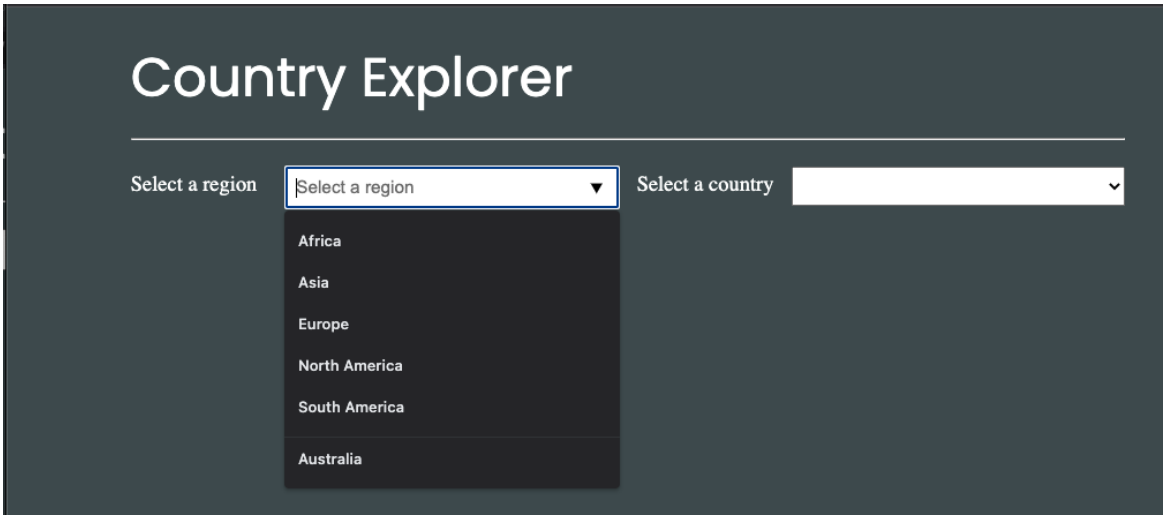
1. Sync cmps350-lab repo to get the Lab files.
2. Copy ***Lab7-ClientJS*** folder from cmps350-lab repo to your repository.
3. Implement the following two exercises

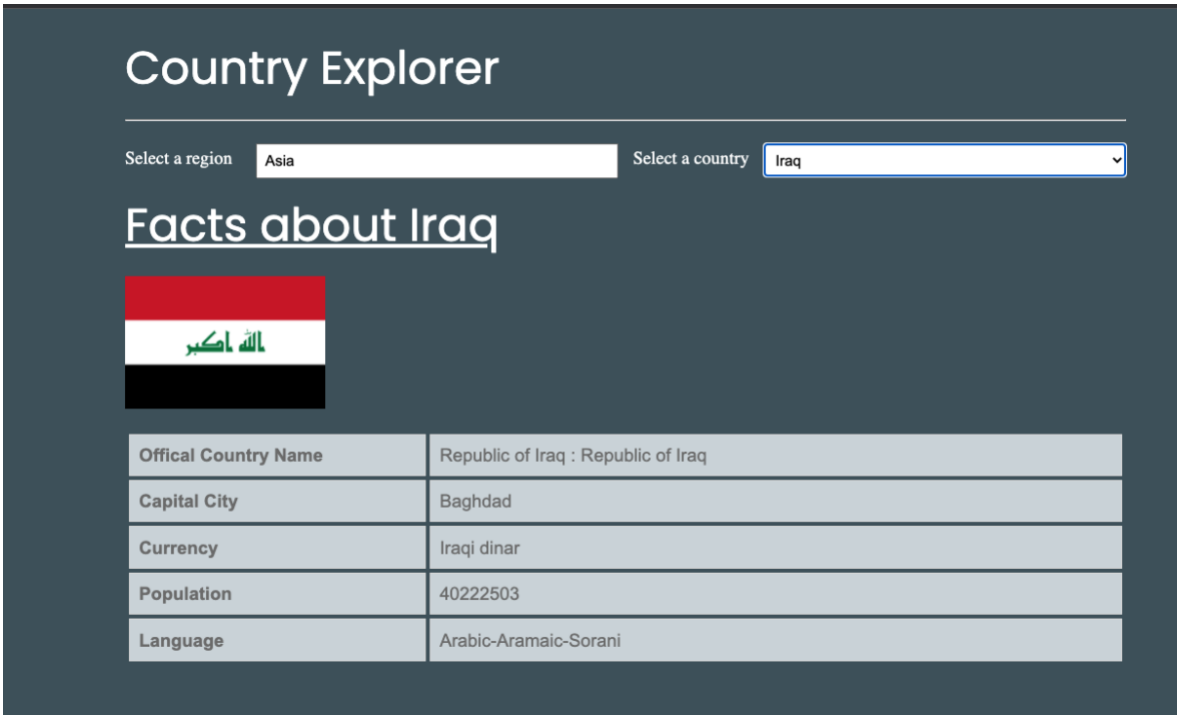
Exercise 1 - Countries Explorer

Develop a web app that allows users to search country information. The application should show the user , the searched countries, flag, location, currency , language, population etc... and display as shown in the below images.

Application Screens







1. Open the Country Explorer base project
2. You are given the HTML, and CSS files. Your task is to add the necessary code for the javascript file.
3. Create a JS file and name it index.js. You need to add this file at the end of your html body
4. Once the user selects a continent, call the following API to get all the countries under that continent.
   URL to get all the countries in a region : https://restcountries.com/v3.1/region/{region}
   URL to get all the countries in a region : https://restcountries.com/v3.1/name/{country}
5. Load the retrieved countries data into the countries dropdown. You should use the country name as the value to the dropdown option.
6. When a country is selected, load the information about the country in a table as show in the image below.

Exercise 2 - To Do App

Design and develop a To-do web app using HTML, CSS, and JavaScript.

The application should allow the user to

1. add a to-do
2. update a to-do status from pending to completed and vice versa,
3. delete a todo. **Optional** [make the delete Icon show only when the to-do status box is checked (completed)]