

Project Title

Country Information App

API INTEGRATION PROJECT

Hosted website:

https://itz-swetha.github.io/API_INTEGRATION_PROJECT/

Introduction

The Country Information App is a frontend web project that uses a public REST API to fetch real-time data about countries. The application dynamically displays the data on a webpage and allows users to search for countries by name.

Objective

- To understand and implement REST API integration
 - To fetch data dynamically using JavaScript
 - To display API data in a user-friendly format
 - To include loading and error handling mechanisms
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Technologies Used

- **HTML** – To structure the webpage
 - **CSS** – To style the application and create a responsive layout
 - **JavaScript (Fetch API)** – To fetch and handle API data
-

API Details

API Name: REST Countries API

Endpoint Used:

<https://restcountries.com/v3.1/all?fields=name,capital,region,population,flags>

This API provides country-related information such as name, capital city, region, population, and national flag.

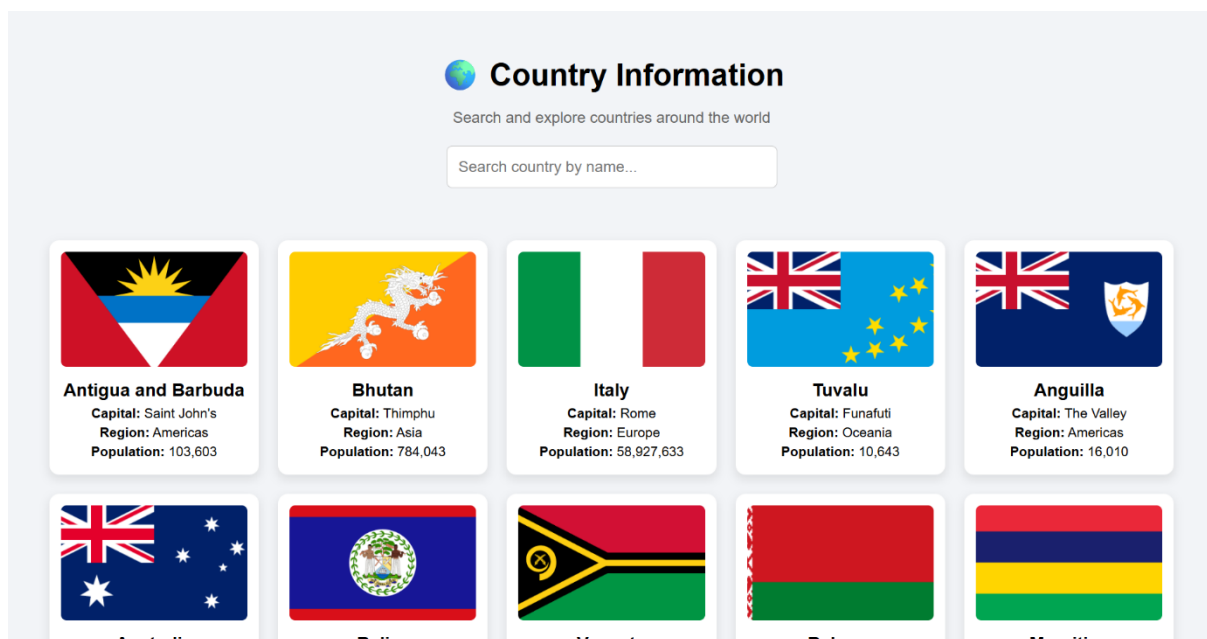
⚙️ Working of the Application

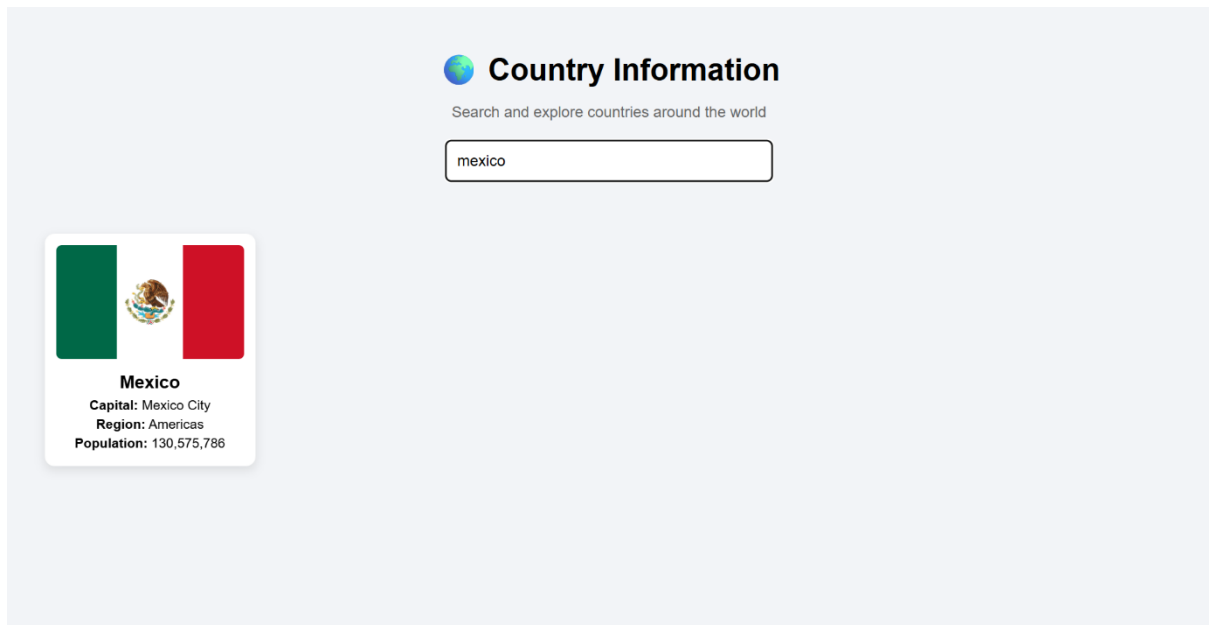
1. When the webpage loads, a request is sent to the REST Countries API.
2. While data is loading, a loading message is shown.
3. After receiving data, country details are displayed as cards.
4. If the API fails, an error message is shown.
5. Users can search for countries using the search input box.

💡 Features Implemented

- Dynamic data fetching using Fetch API
- Loading and error handling states
- Search functionality
- Responsive grid layout (5 countries per row on desktop)

Screenshots





Code Snippets:

```
statusText.textContent = "";
```

```
countries.forEach(country => {  
  const card = document.createElement("div");  
  card.className = "country-card";
```

```
  card.innerHTML = `  
      
    <h3>${country.name.common}</h3>  
    <p><b>Capital:</b> ${country.capital ? country.capital[0] : "N/A"}</p>  
    <p><b>Region:</b> ${country.region}</p>  
    <p><b>Population:</b> ${country.population.toLocaleString()}</p>  
  `;  
  ;
```

```
  countriesContainer.appendChild(card);
```

```
});  
}
```

```
// Search feature
```

```
searchInput.addEventListener("input", () => {  
  const value = searchInput.value.toLowerCase();  
  
  const filtered = allCountries.filter(country =>  
    country.name.common.toLowerCase().includes(value)  
  );  
  
  displayCountries(filtered);  
});
```