📌 Project Title

Country Information App

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

🛠 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.
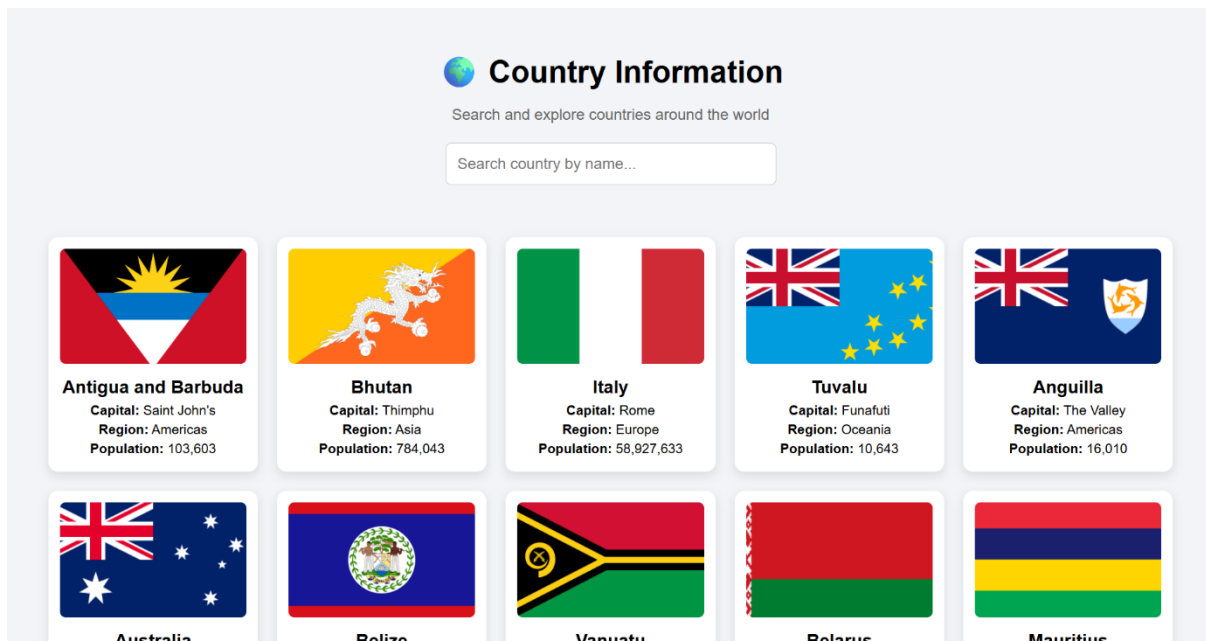

⚙️ Working of the Application

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

✅ Conclusion

This project demonstrates the use of REST APIs, JavaScript fetch operations, and responsive UI design. It helps in understanding how real-world frontend applications consume and display external data.