

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
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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.

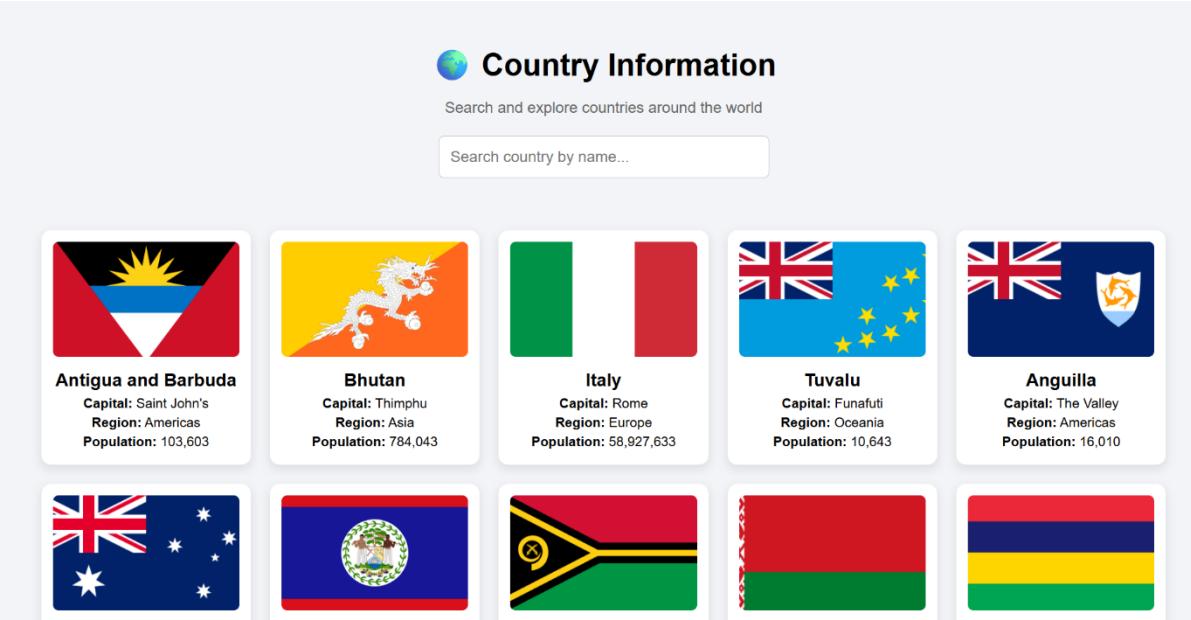
Working of the Application

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.
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Features Implemented

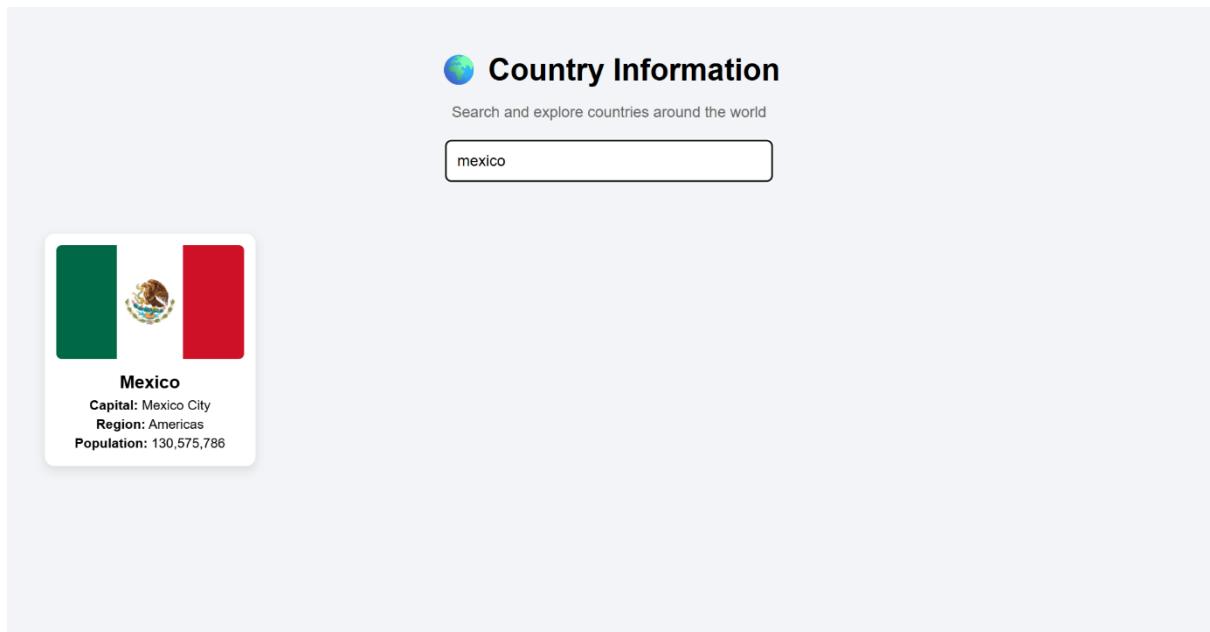
- Dynamic data fetching using Fetch API
 - Loading and error handling states
 - Search functionality
 - Responsive grid layout (5 countries per row on desktop)
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Screenshots



The screenshot displays a web application titled "Country Information". At the top center is a globe icon and the title "Country Information". Below the title is a subtitle "Search and explore countries around the world". A search bar with the placeholder "Search country by name..." is positioned below the subtitle. The main content area features a grid of 10 country cards, each consisting of a flag image and descriptive text. The cards are arranged in two rows of five. The first row includes Antigua and Barbuda, Bhutan, Italy, Tuvalu, and Anguilla. The second row includes Australia, Belize, Vanuatu, Belarus, and Mauritius. Each card provides basic information about the country, including its name, capital, region, and population.

Country	Capital	Region	Population
Antigua and Barbuda	Saint John's	Americas	103,603
Bhutan	Thimphu	Asia	784,043
Italy	Rome	Europe	58,927,633
Tuvalu	Funafuti	Oceania	10,643
Anguilla	The Valley	Americas	16,010
Australia	Melbourne	Oceania	25,369,543
Belize	Belmopan	Central America	390,770
Vanuatu	Port Vila	Oceania	300,000
Belarus	Minsk	Europe	9,540,000
Mauritius	Port Louis	Africa	1,260,000



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);
});
```