

# Endpoints

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## Base Url

<http://127.0.0.1:5000/>

### 1. Get List of All Countries

URL: /countries

Method: GET

Description: Retrieves a list of common names of all countries.

Response: A JSON array containing the common names of all countries.

### 2. Get List of Countries in a Specific Region

URL: /countries/<region>

Method: GET

Description: Retrieves a list of common names of countries in the specified region.

Parameters:

region (string)(required): The region for which to retrieve the list of countries.

Response: A JSON array containing the common names of countries in the specified region.

### 3. Get Details of a Country

URL: /country/<country>

Method: GET

Description: Retrieves details of a specific country including its capital, latitude, longitude, area, and population.

Parameters:

country (string)(required): The name of the country for which to retrieve details.

Response: A JSON object containing details of the specified country.

## 4. Get Current Weather Information of a Country

URL: /weather/current/<country>

Method: GET

Description: Retrieves the current weather information of a specific country.

Parameters:

country (string)(required): The name of the country for which to retrieve weather information.

Response: A JSON object containing the current temperature and weather conditions of the specified country.

## 5. Get Weather Forecast of a Country

URL: /weather/forecast/<country>

Method: GET

Description: Retrieves the weather forecast of a specific country for a specified number of days.

Parameters:

country (string)(required): The name of the country for which to retrieve the weather forecast.

days (integer)(required): Number of days for which to forecast the weather.

Response: A PNG image displaying the weather forecast graph for the specified country.

## 6. Get Hottest Country

URL: /weather/hottest

Method: GET

Description: Retrieves the hottest country in the specified region or in the world.

Parameters:

region (string)(required): The region for which to find the hottest country. Use 'all' for the whole world.

Response: A JSON object containing the name of the hottest country and its temperature.

## 7. Manage Favourite Countries

URL: /favourites

Method: GET, POST, DELETE

Description: Allows users to manage their list of favourite countries.

GET: Retrieves the list of currently favoured countries.

POST: Adds a country to the list of favourites.

Parameters: country (string)(required): The name of the country to favour.

DELETE: Removes a country from the list of favourites.

Parameters: country (string)(required): The name of the country to unfavourite.

## Additional Libraries and API's

pillow: To display the forecasting graphs

requests: to make api calls and work with the responses

MongoDB API: it was used to store and manipulate the favourite list. API-key is injected in the script file that runs the API.