**Requests Module**

Team Members:

Guffrana Anjum

Alluri Praveenya

Andugula Anusha

**Project Description:**

The Weather Information API is a RESTful web application developed in Python using Flask. This application allows users to retrieve current weather data for a list of cities by interacting with the OpenWeatherMap API. Users can manage their city list through HTTP methods, enabling functionalities such as adding, updating, and deleting cities.

**Operations:**

* \_init\_(self, api\_key): Initializes the WeatherManager with the provided API key and an empty list of cities.
* add\_city(self, city): Adds a city to the list if it is not already present.
* update\_city(self, old\_city, new\_city): Updates the name of an existing city in the list.
* delete\_city(self, city): Deletes a city from the list if it exists.
* get\_weather(self, city): Retrieves current weather data for a specified city using the OpenWeatherMap API. Returns weather information as a dictionary or None if the city is not found.
* display\_weather(self): Displays the current weather for all cities in the list.

**Sample Input and Output:**

**1.Add City:**

Input:

Output:



**2. Update City:**

Input:

Output:



**3. Delete City:**

Input:

Output:



**4. Display Weather:**

Input:

****

Output:

**A black background with white text

Description automatically generated**

**5. Exit:**

Input:



Output:

****

**Conclusion:**

These operations provide a clear and structured way for users to manage their city list and obtain current weather information through a simple and intuitive API. The implementation of these operations allows for seamless interaction and enhances user experience by providing meaningful feedback.