

Mini Project: Weather App using Python

This is a simple Python project that fetches current weather information for a city using the OpenWeatherMap API. The user enters a city name and the program displays temperature, humidity, and weather condition.

Python Code:

```
import requests

def get_weather(city):
    API_KEY = "YOUR_API_KEY" # Replace with your OpenWeatherMap API key
    base_url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={API_KEY}&units=metric"

    response = requests.get(base_url)
    data = response.json()

    if data["cod"] != "404":
        main = data["main"]
        weather = data["weather"][0]
        print(f"City: {city}")
        print(f"Temperature: {main['temp']} degrees C")
        print(f"Humidity: {main['humidity']}%")
        print(f"Condition: {weather['description'].title()}")
    else:
        print("City not found.")

city = input("Enter city name: ")
get_weather(city)
```

How to Get an API Key:

1. Go to <https://openweathermap.org/>
2. Create a free account and log in.
3. Click on 'API Keys' from the dashboard.
4. Copy your default API key and paste it into the code.

How to Run the Project:

1. Save the code in a file named 'weather.py'.
2. Open terminal and navigate to the project folder.

3. Install 'requests' module using: `pip install requests`
4. Run the file using: `python weather.py`
5. Enter any city name when prompted.

How to Upload to GitHub:

1. Create a GitHub account (<https://github.com>) if you don't have one.
2. Click '+' -> New repository -> Name it (e.g., weather-app).
3. Click 'Create repository'.
4. Upload your file by clicking 'uploading an existing file' or drag-and-drop the 'weather.py' file.
5. Click 'Commit changes' to save.