

hen, the script is ready! Here's the Python code for `weather_app.py`:

```
```python
API used: OpenWeatherMap (https://openweathermap.org/)
This script fetches current weather data for a specified location using the
OpenWeatherMap API.
Remember to replace 'YOUR_API_KEY' with your actual API key.

import requests
import json

def get_weather(api_key, city_name):
 """
 Fetches and displays current weather information for a given city.

 Args:
 api_key (str): Your OpenWeatherMap API key.
 city_name (str): The name of the city to get weather data for.

 Returns:
 None. Prints weather information to the console or error messages.
 """
 base_url = "http://api.openweathermap.org/data/2.5/weather"
 params = {
 "q": city_name,
 "appid": api_key,
 "units": "metric" # Use metric units for temperature (Celsius)
 }

 try:
 response = requests.get(base_url, params=params)
 response.raise_for_status() # Raise an exception for bad status codes
 (4xx or 5xx)
 data = response.json()

 # Extract relevant information
 city = data["name"]
 temperature = data["main"]["temp"]
 conditions = data["weather"][0]["description"]
 humidity = data["main"]["humidity"]
 wind_speed = data["wind"]["speed"]

 print(f"Weather in {city}:")
 print(f" Temperature: {temperature}°C")
 print(f" Conditions: {conditions}")
 print(f" Humidity: {humidity}%")
 print(f" Wind Speed: {wind_speed} m/s")

 except requests.exceptions.RequestException as e:
 print(f"Network error: {e}")
 except (KeyError, IndexError) as e:
 print(f"Error parsing weather data: {e}")
 except json.JSONDecodeError as e:
```