

Untitled1

October 1, 2023

The Weather App!

The weather app in Python is a simple program that fetches weather data from an external API (in this case, the OpenWeatherMap API) based on the user's input (city name) and displays the weather information in a graphical user interface (GUI) created using the Tkinter library.

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In [4]: import requests
import tkinter as tk

def get_weather():
    api_key = "9d12bc28c801c02b06209340553c9576"
    city = entry.get()
    url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={api_key}&units=metric"

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

    try:
        weather_description = data['weather'][0]['description'].capitalize()
        temperature = data['main']['temp']
        humidity = data['main']['humidity']

        result_label.config(text=f"Weather: {weather_description}\nTemperature: {temperature}°C\nHumidity: {humidity}%")
    except KeyError:
        result_label.config(text="City not found")

# Create the main application window
app = tk.Tk()
app.title("Weather App")

# Create and pack GUI components
label = tk.Label(app, text="Enter City:")
label.pack(pady=10)

entry = tk.Entry(app)
entry.pack()

get_weather_button = tk.Button(app, text="Get Weather", command=get_weather)
get_weather_button.pack(pady=10)
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result_label = tk.Label(app, text="", font=("Helvetica", 14))
result_label.pack()
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# Start the GUI main loop
app.mainloop()
```