

Develop a Python script

Date	12 November 2022
Team ID	PNT2022TMIDI3627
Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES
Maximum Marks	4 Marks

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITIAN CITIES

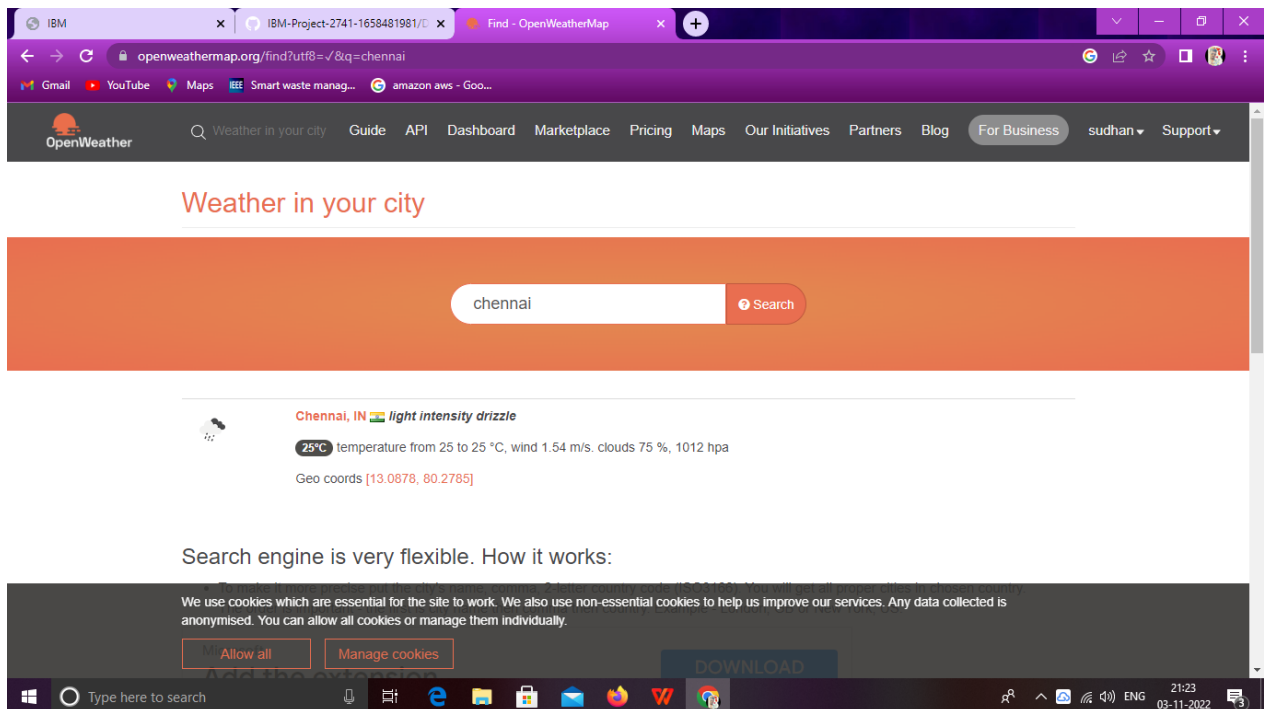
Create a code snippet using python to

1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler

SARAVANASUDHAN S:

The screenshot shows a web browser window with the OpenWeatherMap website. The address bar shows 'home.openweathermap.org'. A green confirmation message states: 'We have sent the confirmation link to saravanasudhansubramanian2002@gmail.com. Please check your email.' Below this, there is a navigation bar with links like 'New Products', 'Services', 'API keys', 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. A large banner for 'Historical weather for any location' is displayed, featuring a collage of sky images. The banner text includes: 'Our new technology, Time Machine, has allowed us to enhance the data in the Historical Weather Collection.' and a list of features: 'Historical weather data available for ANY coordinate' and 'The depth of historical data have been extended to 40 YEARS'. It also mentions 'You can download data from Personal account or contact us to order it.' and has two buttons: 'Learn more' and 'Go to purchase'. The Windows taskbar at the bottom shows the time as 21:23 on 03-11-2022.

Weather Dashboard



IBM Project-2741-1658481981/C Find - OpenWeatherMap


openweathermap.org/find?utf8=✓&q=chennai

Gmail YouTube Maps Smart waste manag... amazon aws - Goo...

OpenWeather Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business sudhan Support

Weather in your city

chennai Search

Chennai, IN  **light intensity drizzle**

25°C temperature from 25 to 25 °C, wind 1.54 m/s, clouds 75 %, 1012 hpa

Geo coords [13.0878, 80.2785]

Search engine is very flexible. How it works:

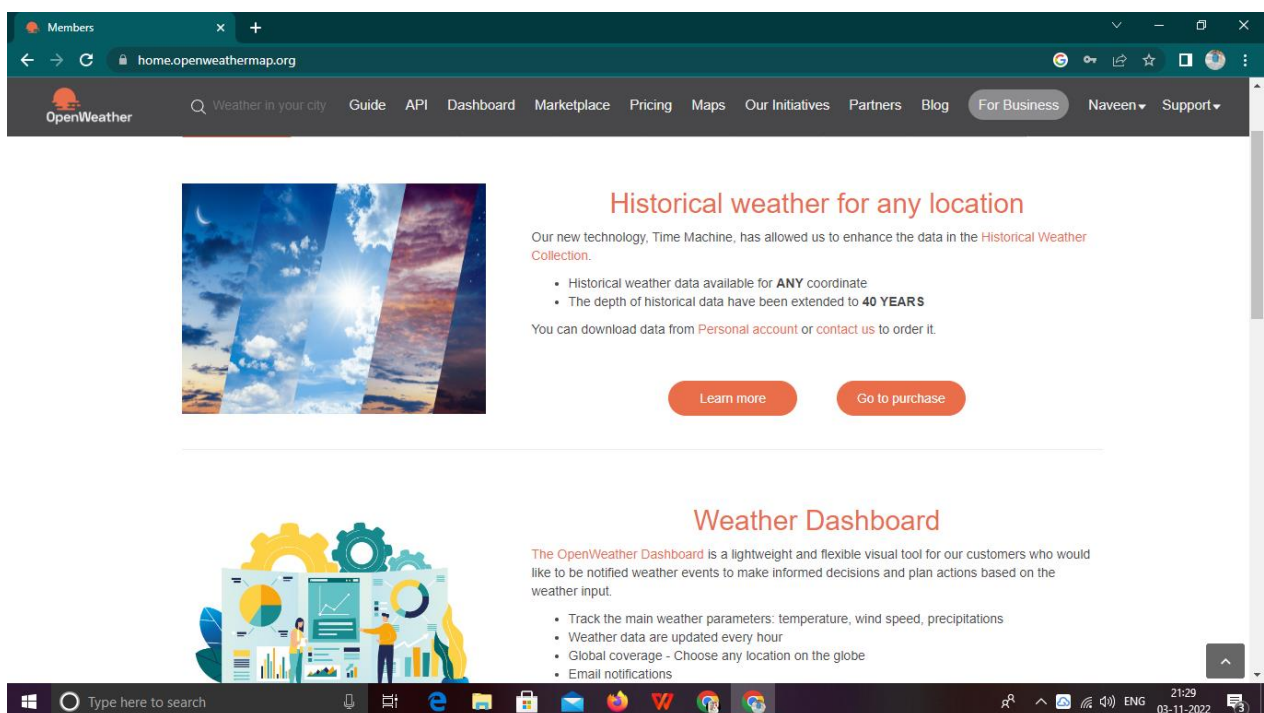
We use cookies which are essential for the site to work. We also use non-essential cookies to help us improve our services. Any data collected is anonymised. You can allow all cookies or manage them individually.

Allow all Manage cookies DOWNLOAD

Type here to search

21:23 03-11-2022

NAVEEN S:



Members home.openweathermap.org

OpenWeather Weather in your city Guide API Dashboard Marketplace Pricing Maps Our Initiatives Partners Blog For Business Naveen Support

Historical weather for any location

Our new technology, Time Machine, has allowed us to enhance the data in the [Historical Weather Collection](#).

- Historical weather data available for **ANY** coordinate
- The depth of historical data have been extended to **40 YEARS**

You can download data from [Personal account](#) or [contact us](#) to order it.

Learn more Go to purchase

Weather Dashboard

The [OpenWeather Dashboard](#) is a lightweight and flexible visual tool for our customers who would like to be notified weather events to make informed decisions and plan actions based on the weather input.

- Track the main weather parameters: temperature, wind speed, precipitations
- Weather data are updated every hour
- Global coverage - Choose any location on the globe
- Email notifications

Type here to search

21:29 03-11-2022

TAMIL INAIN R:

The screenshot shows the OpenWeather website interface. At the top, there's a navigation bar with the OpenWeather logo and various links like 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', 'Tamil', and 'Support'. Below the navigation bar, a green confirmation message states: 'We have sent the confirmation link to **tamilinian07@gmail.com**. Please check your email.' Underneath this message is a horizontal menu with links: 'New Products', 'Services', 'API keys', 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. The main content area features a large image of a sunset over a body of water. To the right of the image, the heading 'Historical weather for any location' is displayed in orange. Below the heading, a paragraph explains that their new technology, 'Time Machine', has enhanced the data in the 'Historical Weather Collection'. Two bullet points follow: 'Historical weather data available for **ANY** coordinate' and 'The depth of historical data have been extended to **40 YEARS**'. A line of text says 'You can download data from **Personal account** or **contact us** to order it.' At the bottom of this section are two orange buttons: 'Learn more' and 'Go to purchase'. The Windows taskbar at the bottom shows the search bar and several application icons, with the system clock indicating 21:33 on 03-11-2022.

MOHAMED UMAR N:

This screenshot shows the OpenWeather website interface for user MOHAMED UMAR N. The layout is identical to the previous one, with the same navigation bar and confirmation message: 'We have sent the confirmation link to **mohamedumar00786@gmail.com**. Please check your email.' The main content area also features the same sunset image and 'Historical weather for any location' section, including the 'Time Machine' technology description, bullet points about data availability for any coordinate and 40 years of history, and the 'Learn more' and 'Go to purchase' buttons. At the bottom of the page, there's a section titled 'Weather Dashboard' with a sub-header 'The OpenWeather Dashboard is a lightweight and flexible visual tool for our customers who would'. The Windows taskbar at the bottom shows the search bar and application icons, with the system clock indicating 21:39 on 03-11-2022.

OUTPUT:

```
weatherMap.py - E:/IBM/pre/weatherMap.py (3.6.5)
File Edit Format Run Options Window Help

import requests
a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=6d13d12f9cd34a07871a5795d01e2c47"
r = requests.get(url = a)
data = r.json()
print(r)
print(data)
temp = data["main"]["temp"]
hum = data["main"]["humidity"]
print("Temperature is :",temp)
print("Humidity is :",hum)
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help

<Response [200]>
Temperature is : 298.14
>>>
===== RESTART: E:/IBM/pre/weatherMap.py =====
=====
<Response [200]>
{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 701, 'main': 'Mist', 'description': 'mist', 'icon': '50n'}, {'id': 500, 'main': 'Rain', 'description': 'light rain', 'icon': '10n'}], 'base': 'stations', 'main': {'temp': 298.14, 'feels_like': 299.15, 'temp_min': 298.14, 'temp_max': 298.14, 'pressure': 1012, 'humidity': 94}, 'visibility': 2500, 'wind': {'speed': 1.54, 'deg': 350}, 'rain': {'1h': 0.12}, 'clouds': {'all': 75}, 'dt': 1667317416, 'sys': {'type': 1, 'id': 9218, 'country': 'IN', 'sunrise': 1667262751, 'sunset': 1667304738, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', 'cod': 200}
Temperature is : 298.14
Humidity is : 94
>>>
```

Ln: 10 Col: 26

Ln: 17 Col: 4

Windows taskbar: Rain to stop, 9:17 PM, 11/1/2022