

Develop the Python Script

(Develop a Python script)

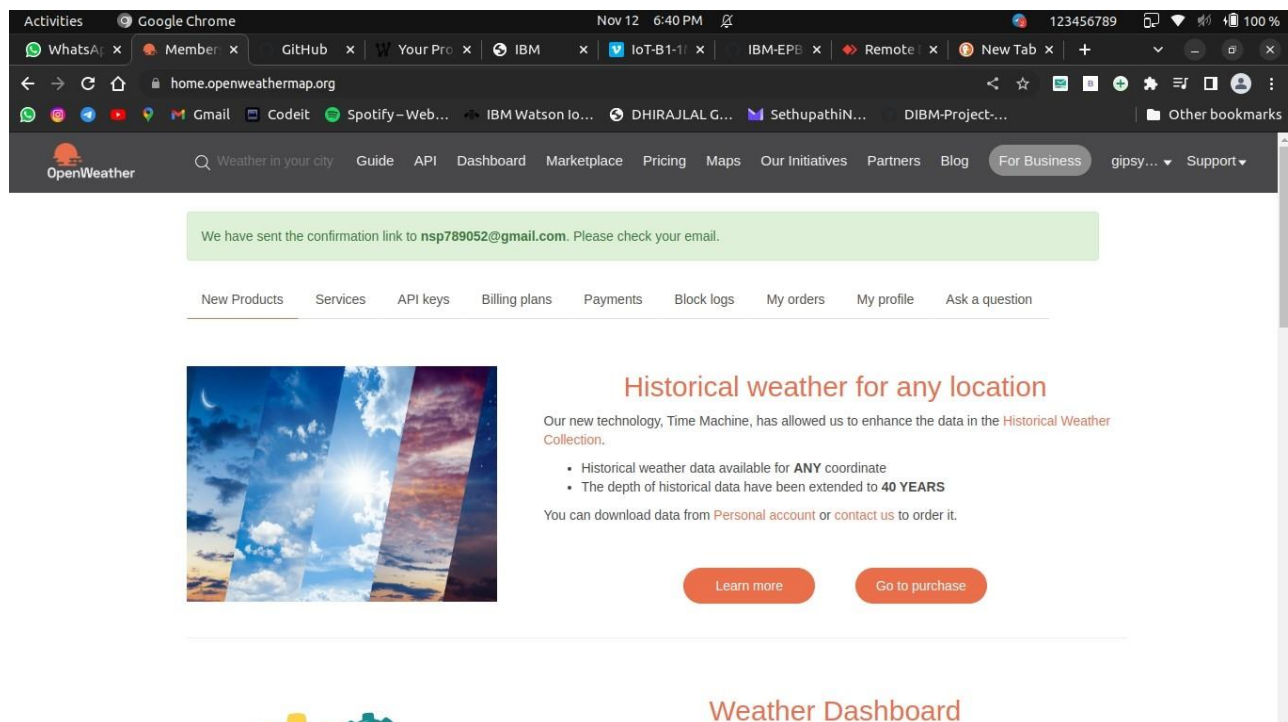
Team ID : PNT2022TMID20931

Industry-specific intelligent fire management system

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

1*Team Member Weather account ID



Activities Google Chrome Nov 12 6:40 PM 123456789 100 %


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home.openweathermap.org

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Historical weather for any location

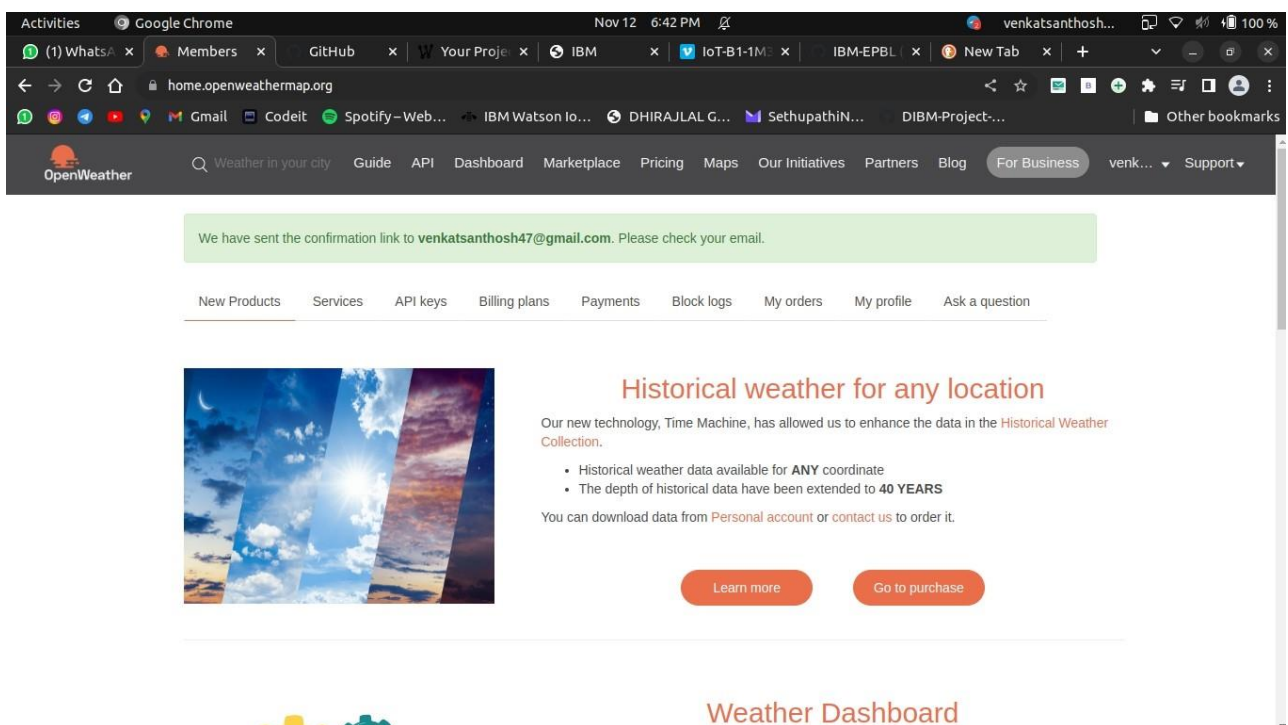
Our new technology, Time Machine, has allowed us to enhance the data in the **Historical Weather Collection**.

- Historical weather data available for **ANY** coordinate
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Weather Dashboard



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Weather Dashboard

3* python compiler

```
Activities Google Chrome Nov 12 7:28 PM https://api.op...
(1) x Me x Cur x IBN x IBN x IBN x IBN x IBN x IBN x IBN x
api.openweathermap.org/data/2.5/weather?q=Salem,%20IN&appid=a79601c0cdc478a74c835c8517859fbf
{"coord":{"lon":78.1667,"lat":11.65},"weather":[{"id":804,"main":"Clouds","description":"overcast clouds","icon":"04n"}],"base":"stations","main":{"temp":296.13,"feels_like":296.96,"temp_min":296.13,"temp_max":296.13,"pressure":1012,"humidity":95,"sea_level":1012,"grnd_level":979},"visibility":10000,"wind":{"speed":1.15,"deg":89,"gust":1.5},"clouds":{"all":100},"dt":1668261480,"sys":{"country":"IN","sunrise":1668213777,"sunset":1668255603},"timezone":19800,"id":1257629,"name":"Salem","cod":200}
```

```
Activities Terminal Nov 12 7:45 PM Omalur, IN
Open test.py ~/Documents

import requests
a="https://api.openweathermap.org/data/2.5/weather?q=Omalur,IN,IN&appid=8185f4665523467898915cea10b4c85f"
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)

sp@GIPSY: ~/Documents
ls
bookmarks_11_11_2022.html 'Chrome Passwords.csv' TBomb test.py
sp@GIPSY: ~/Documents$ python3 test.py
<Response [200]>
{'coord': {'lon': 78.0456, 'lat': 11.7411}, 'weather': [{'id': 804, 'main': 'Clouds', 'description': 'overcast clouds', 'icon': '04n'}], 'base': 'stations', 'main': {'temp': 295.9, 'feels_like': 296.74, 'temp_min': 295.9, 'temp_max': 295.9, 'pressure': 1012, 'humidity': 96, 'sea_level': 1012, 'grnd_level': 980}, 'visibility': 10000, 'wind': {'speed': 0.92, 'deg': 101, 'gust': 1.13}, 'clouds': {'all': 100}, 'dt': 1668262548, 'sys': {'country': 'IN', 'sunrise': 1668213814, 'sunset': 1668255625}, 'timezone': 19800, 'id': 1261049, 'name': 'Omalur', 'cod': 200}
Temperature is: 295.9
Humidity is: 96
sp@GIPSY: ~/Documents$
```