

Develop the Python Script

(Develop a Python script)

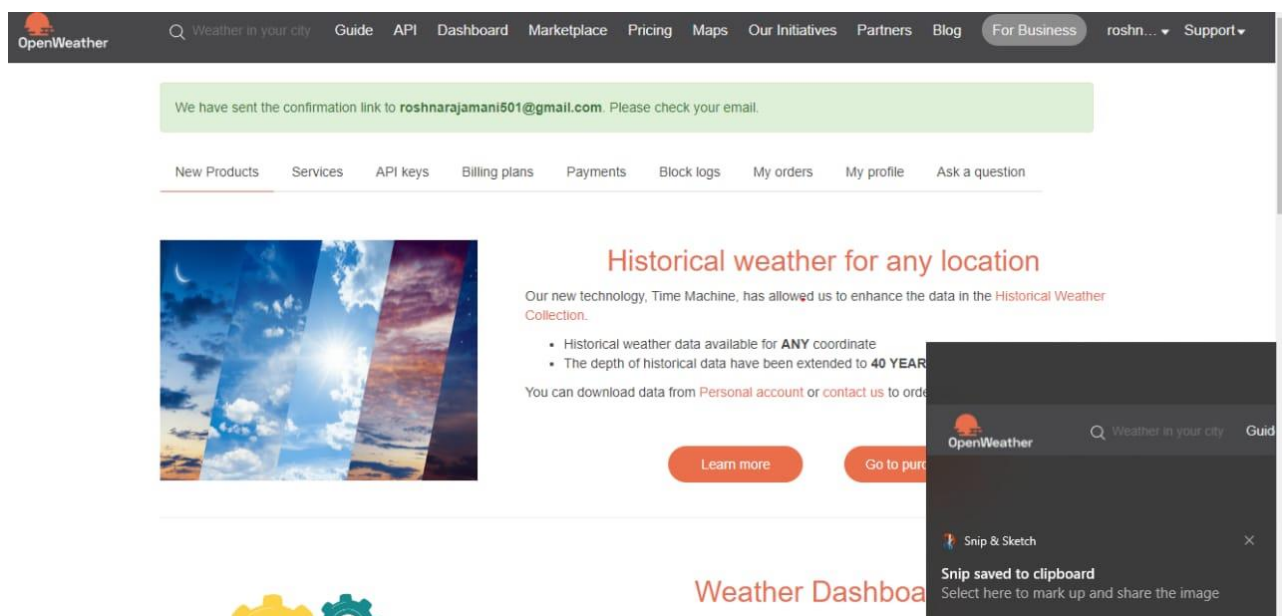
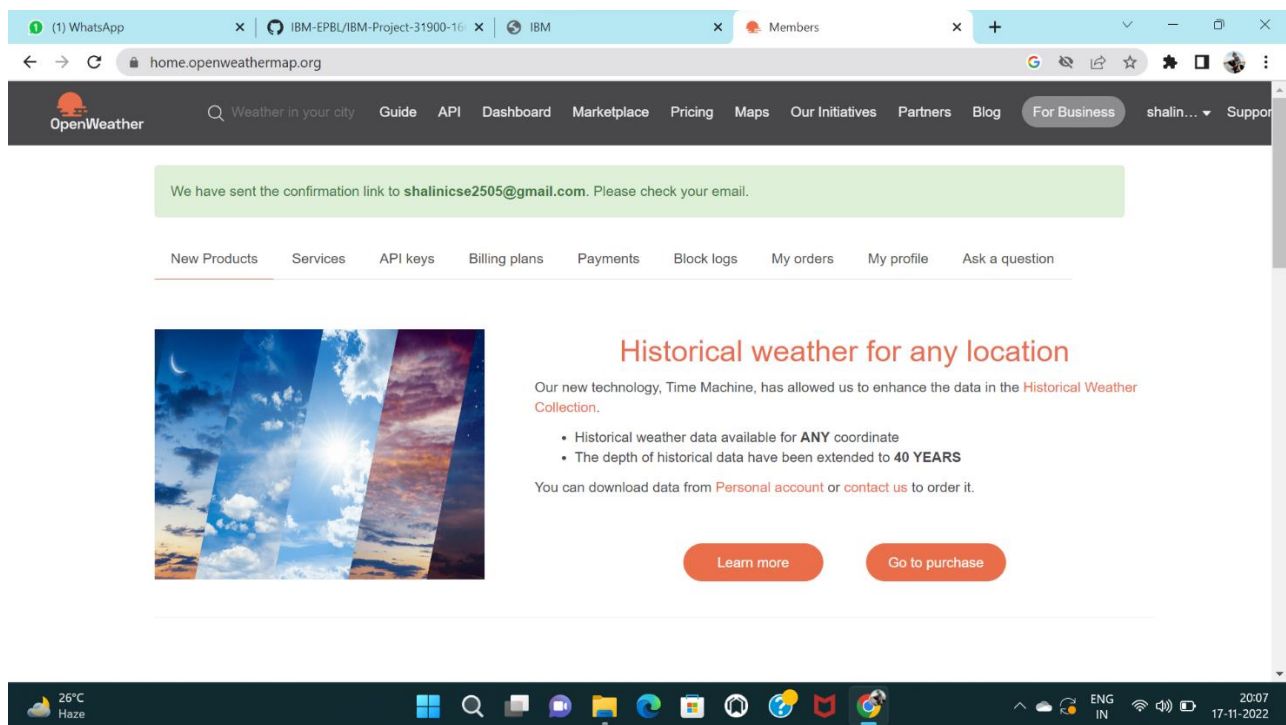
Team ID : PNT2022TMID13823

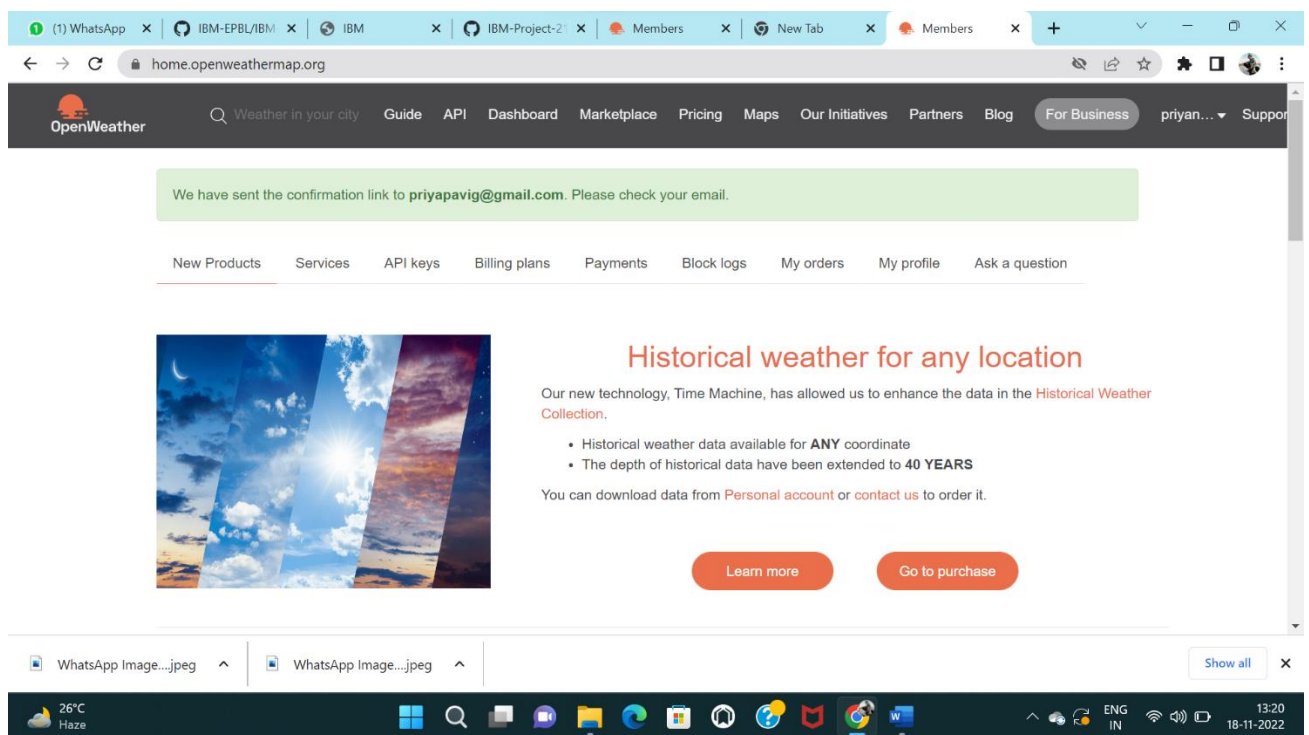
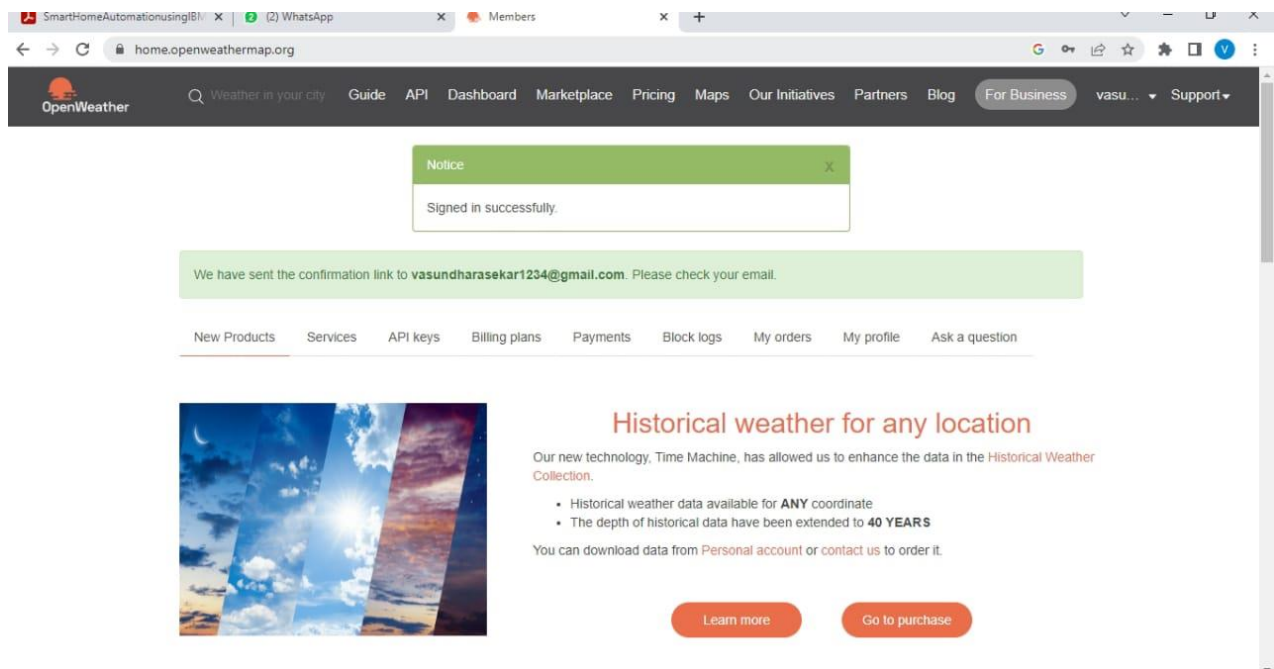
Industry-specific intelligent fire management system

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

Team Members Weather account ID





3* python compiler

```
{
  "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
    }
  }
}
```

```
Open  test.py
~/Documents

import requests
a="https://api.openweathermap.org/data/2.5/weather?q=Omalar,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
sp@GIPSY:~/Documents$ ls
bookmarks_11_11_2022.html  'Chrome Passwords.csv'  T8onb  test.py
sp@GIPSY:~/Documents$ python3 test.py
<Response [200]>
{'coord': {'lon': 78.0456, 'lat': 11.741}, 'weather': [{'id': 804, 'main': 'Clou
ds', 'description': 'overcast clouds', 'icon': '04n'}], 'base': 'stations', 'mai
n': {'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}, 'visibl
ility': 10000, 'wind': {'speed': 0.92, 'deg': 101, 'gust': 1.13}, 'clouds': {'all
': 100}, 'dt': 1668262548, 'sys': {'country': 'IN', 'sunrise': 1668213814, 'suns
et': 1668255625}, 'timezone': 19800, 'id': 1261049, 'name': 'Omalar', 'cod': 200
}
Temperature is: 295.9
Humidity is: 96
sp@GIPSY:~/Documents$
```