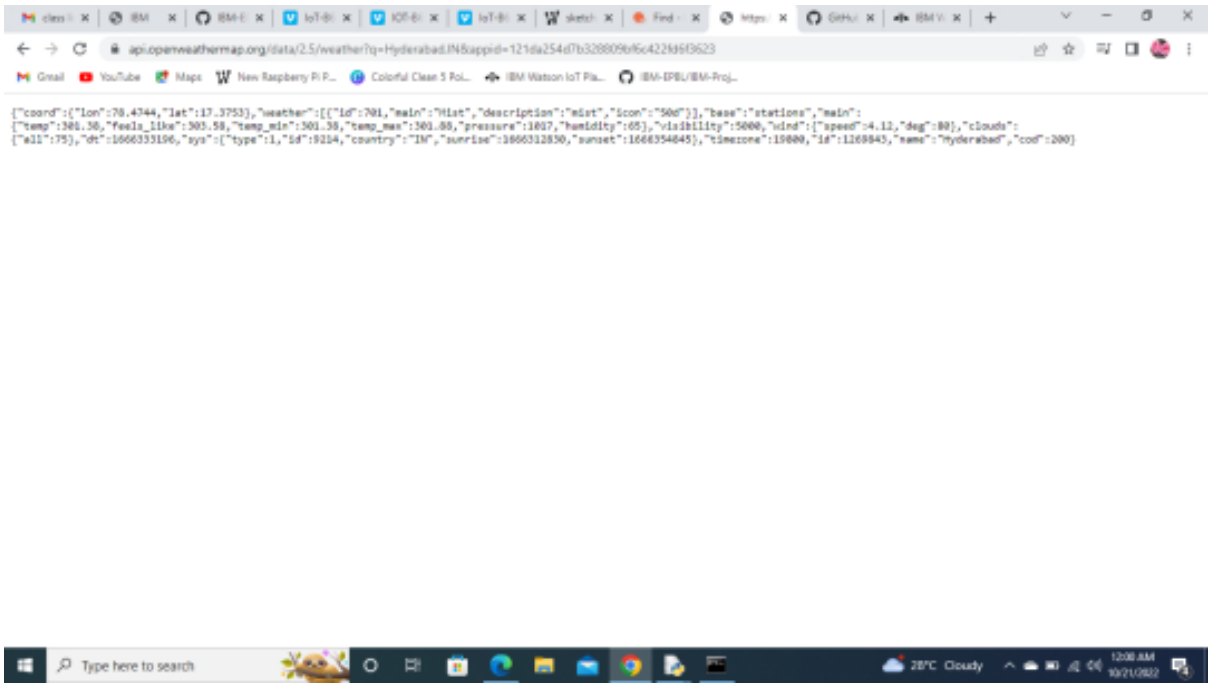
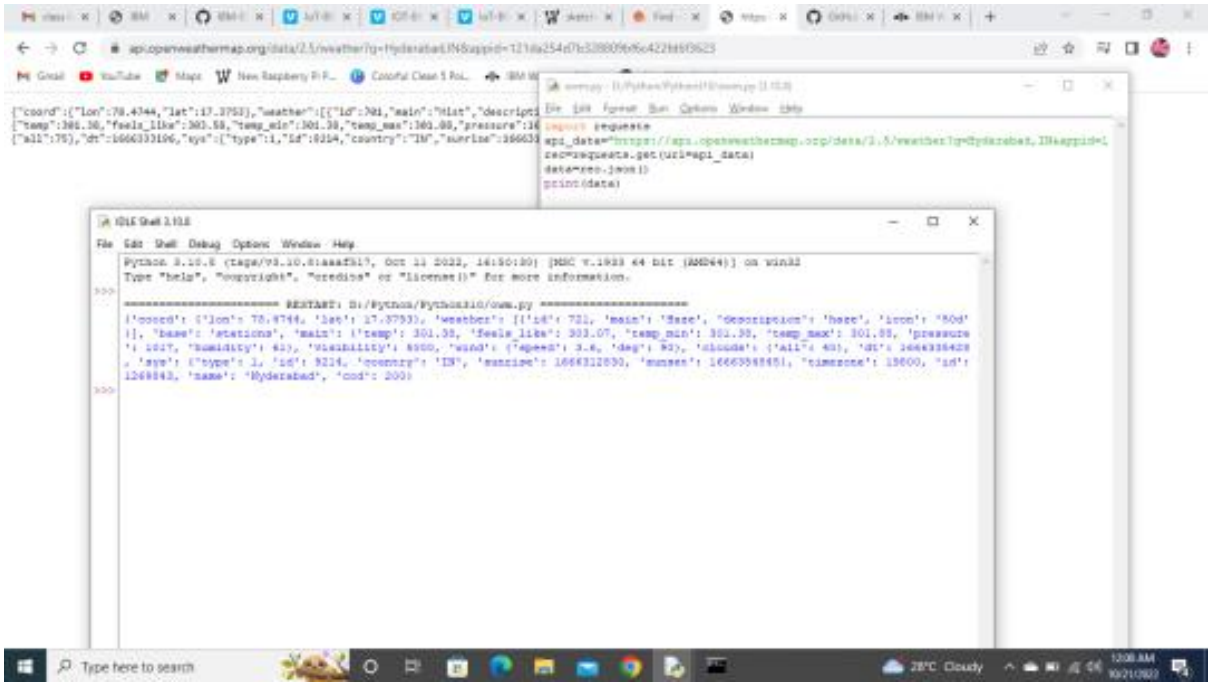
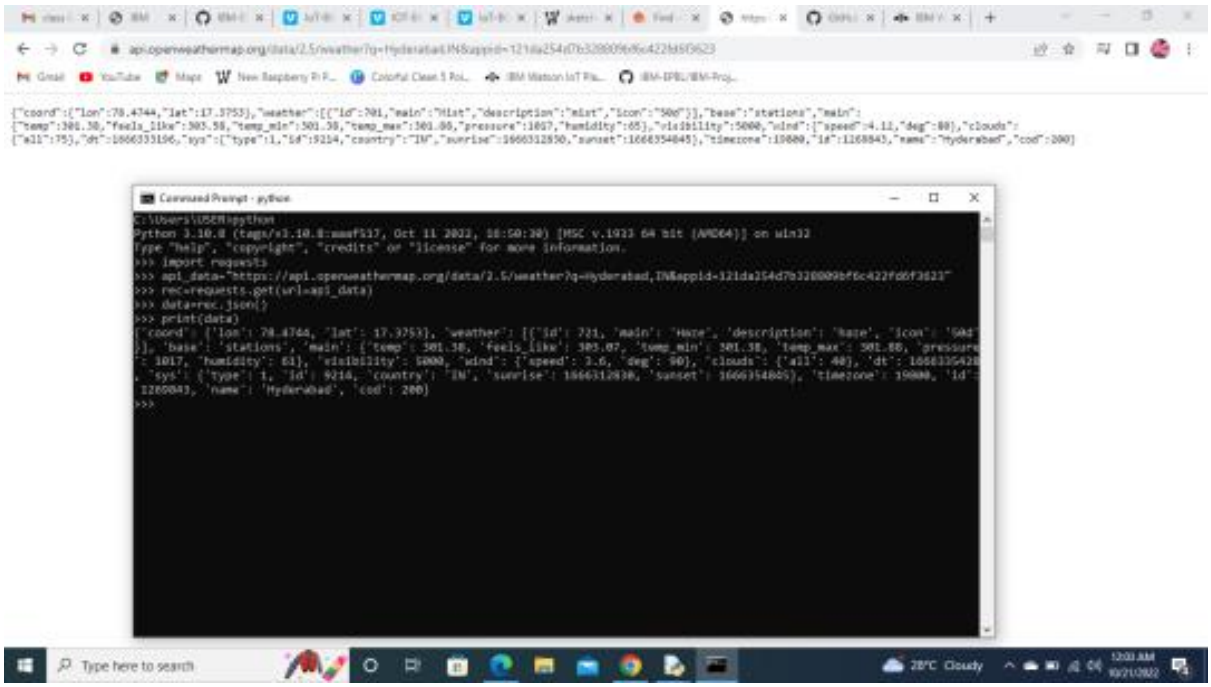
PROJECT PLANNING PHASE

DATE	**29 OCTOBER 2022**
TEAM ID	**PNT2022TMID46185**
PROJECT TITLE	**IoT Based on signs with smart connectivity for better road safety**

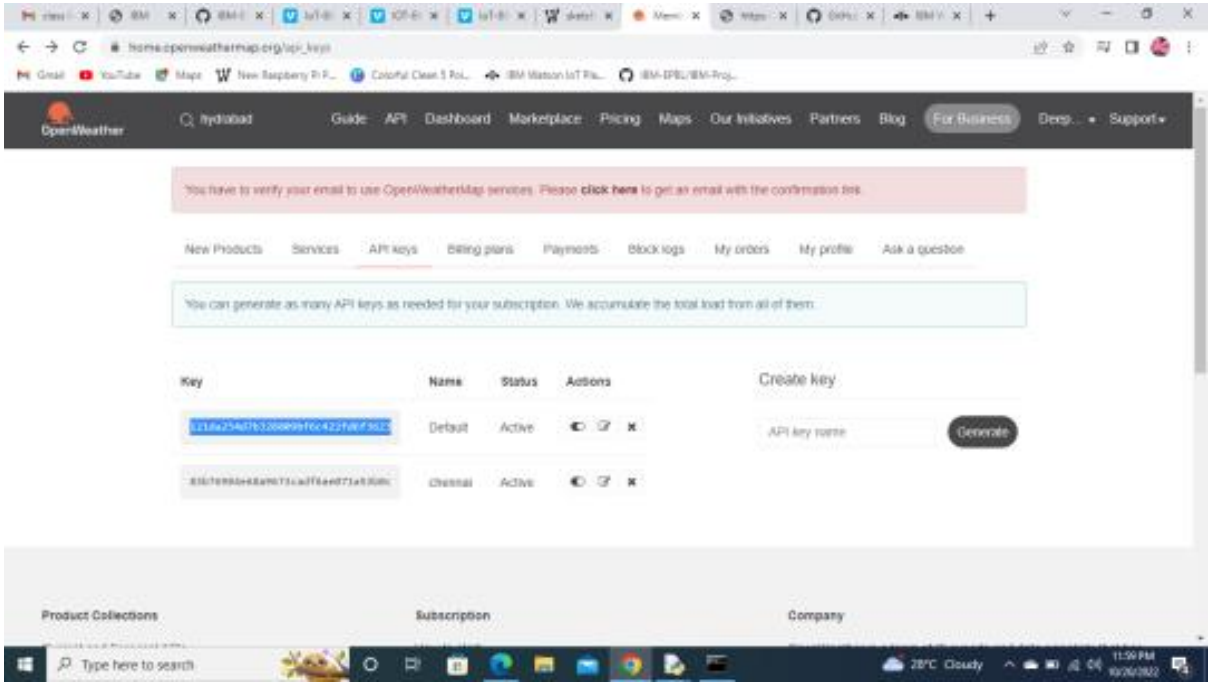
USN-1 Install Watson IoT Python SDK TO Connect to UBM Watson Platform using python:

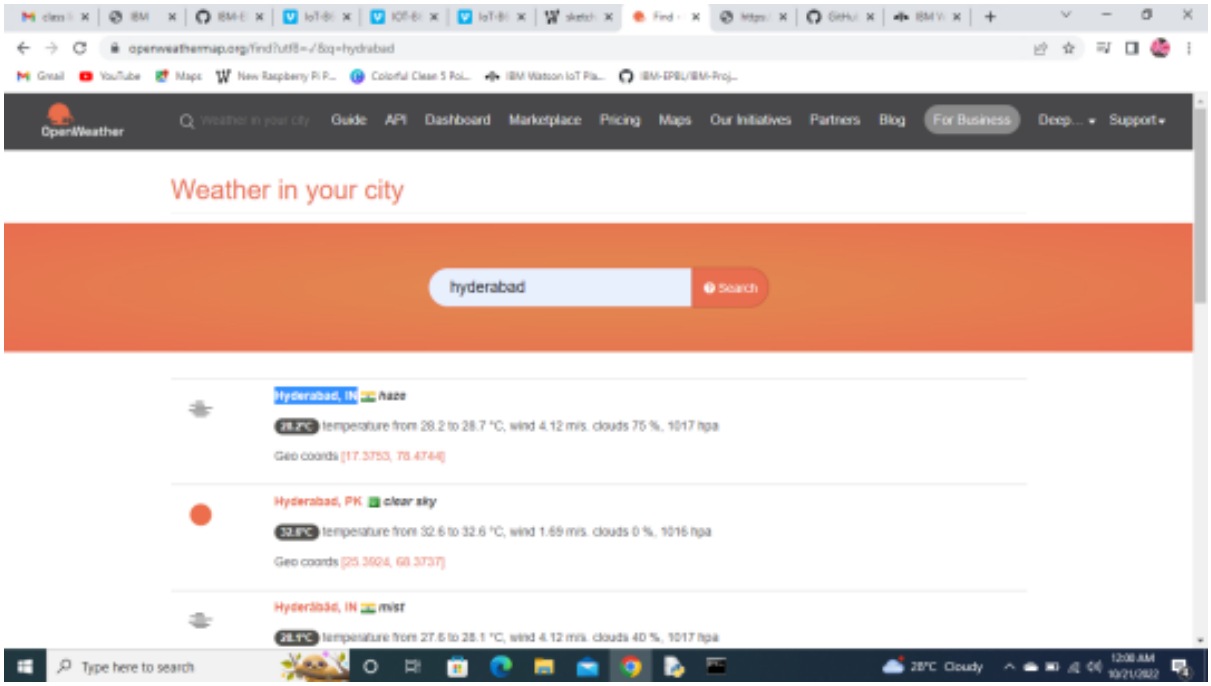



IDLE Shell 3.10.8
File Edit Shell Debug Options Window Help
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/Python/Pythonlic/owm.py ==========
{'coord': {'lon': 78.4744, 'lat': 17.3753}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50d'
}], 'base': 'stations', 'main': {'temp': 301.38, 'feels_like': 303.07, 'temp_min': 301.38, 'temp_max': 301.88, 'pressure
': 1017, 'humidity': 61}, 'visibility': 5000, 'wind': {'speed': 3.6, 'deg': 90}, 'clouds': {'all': 40}, 'dt': 1666336428
, 'sys': {'type': 1, 'id': 9214, 'country': 'IN', 'sunrise': 1666312830, 'sunset': 1666354845}, 'timezone': 19800, 'id':
1269843, 'name': 'Hyderabad', 'cod': 200}
>>>
Type here to search
28°C Cloudy


{"coord":{"lon":78.4744,"lat":17.3753},"weather":[{"id":721,"main":"Haze","description":"haze","icon":"50d"}],"base":"stations","main":
{"temp":301.38,"feels_like":303.58,"temp_min":301.38,"temp_max":301.88,"pressure":1017,"humidity":61},"visibility":5000,"wind":{"speed":4.12,"deg":80},"clouds":
{"all":75},"dt":1666333196,"sys":{"type":1,"id":9214,"country":"IN","sunrise":1666312830,"sunset":1666354845},"timezone":19800,"id":1269843,"name":"Hyderabad","cod":200}
Command Prompt - python
C:\Users\USER>python
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import requests
>>> api_data="https://api.openweathermap.org/data/2.5/weather?q=Hyderabad,IN&appid=121da254d7b328009bf6c422fd6f3821"
>>> rec=requests.get(url=api_data)
>>> data=rec.json()
>>> print(data)
{'coord': {'lon': 78.4744, 'lat': 17.3753}, 'weather': [{'id': 721, 'main': 'Haze', 'description': 'haze', 'icon': '50d'
}], 'base': 'stations', 'main': {'temp': 301.38, 'feels_like': 303.07, 'temp_min': 301.38, 'temp_max': 301.88, 'pressure
': 1017, 'humidity': 61}, 'visibility': 5000, 'wind': {'speed': 3.6, 'deg': 90}, 'clouds': {'all': 40}, 'dt': 1666336428
, 'sys': {'type': 1, 'id': 9214, 'country': 'IN', 'sunrise': 1666312830, 'sunset': 1666354845}, 'timezone': 19800, 'id':
1269843, 'name': 'Hyderabad', 'cod': 200}
>>>
Type here to search
28°C Cloudy

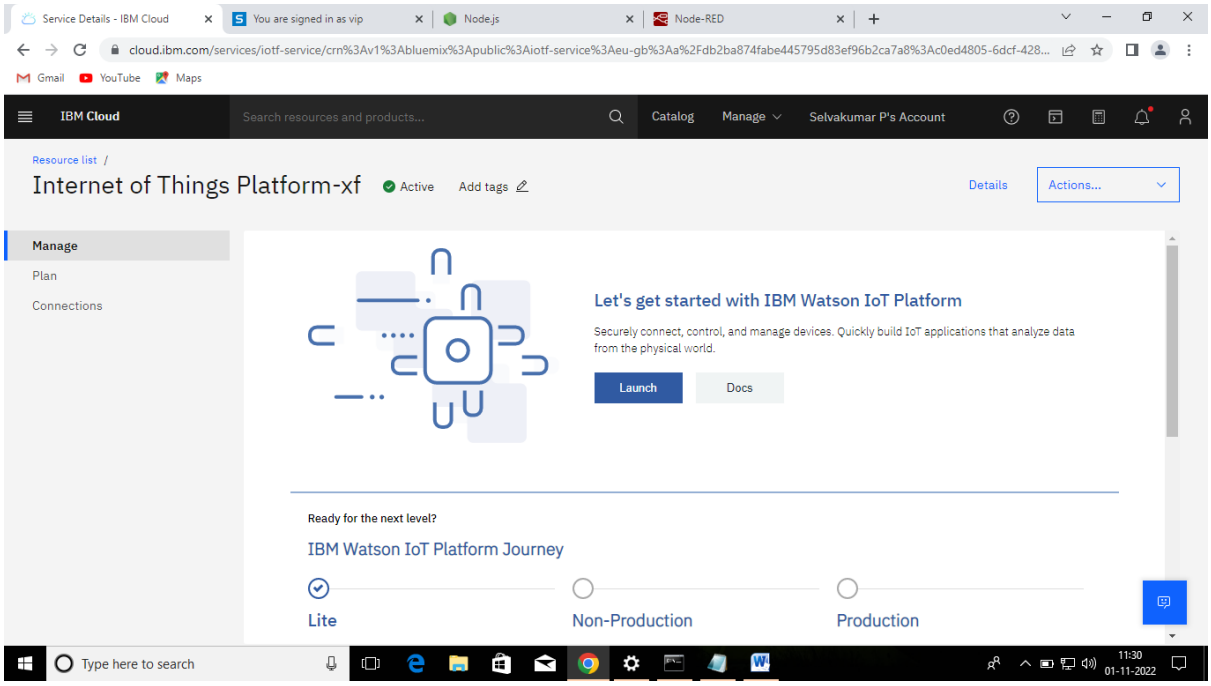
USN-2 Create An Account In Open weather Map Website:



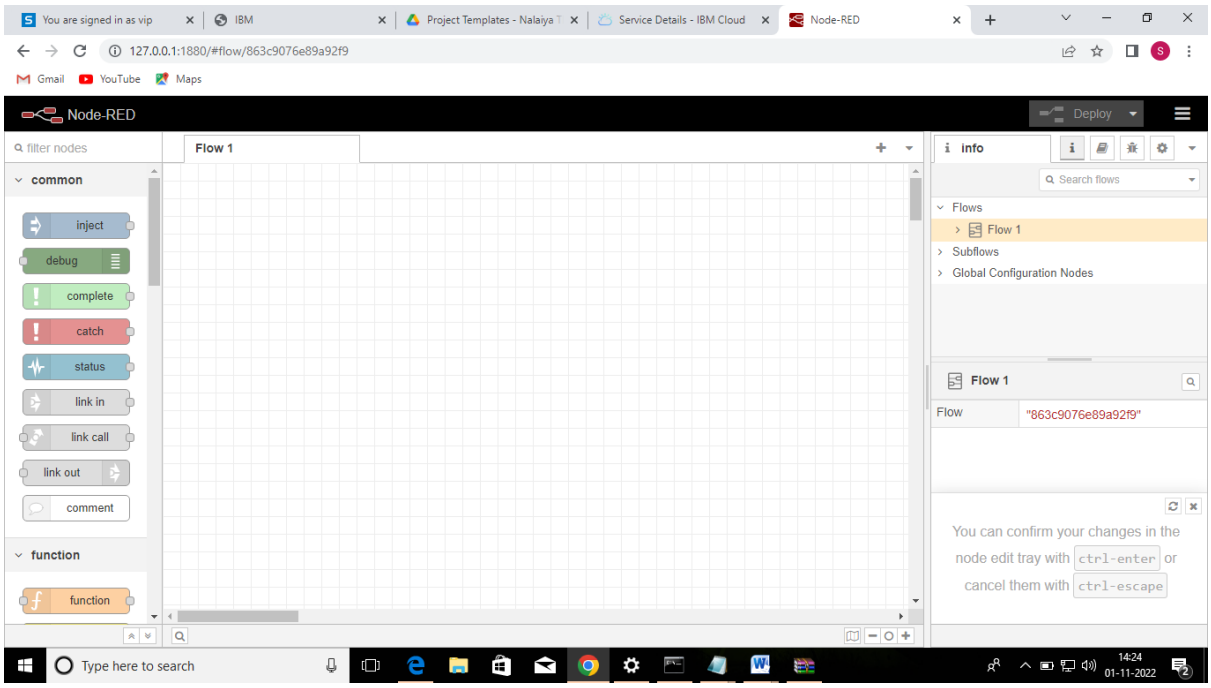


USN-3 IBM Cloud Services:

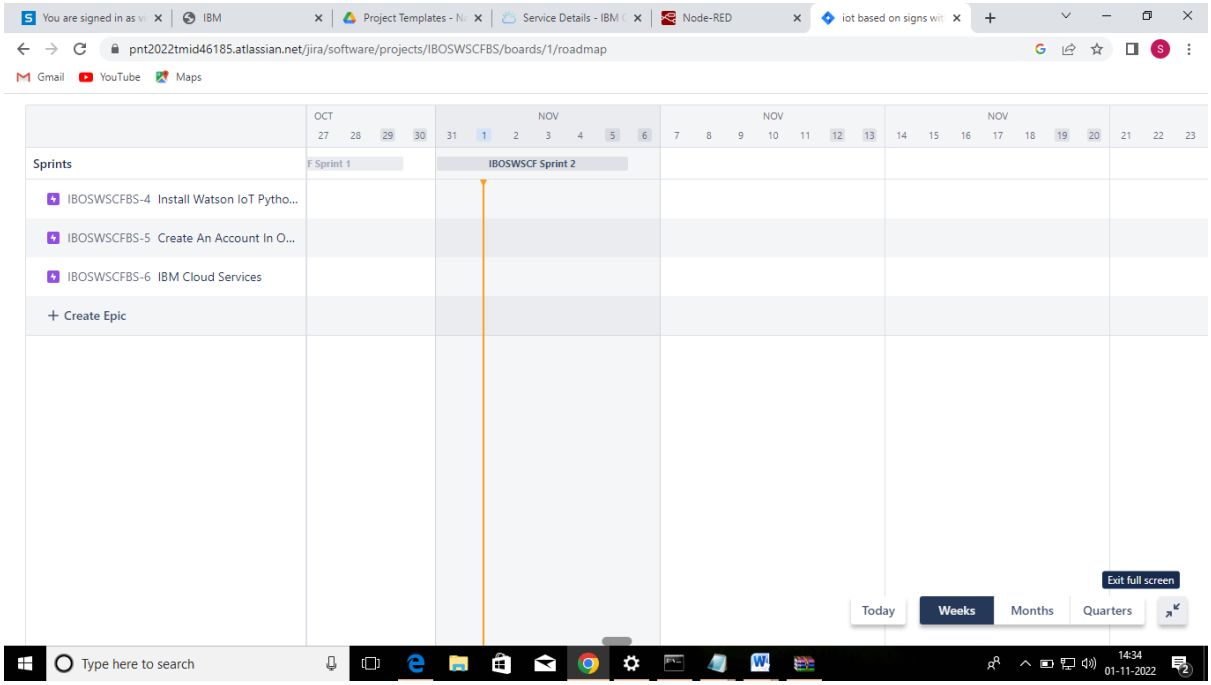
IBM Watson IoT platform



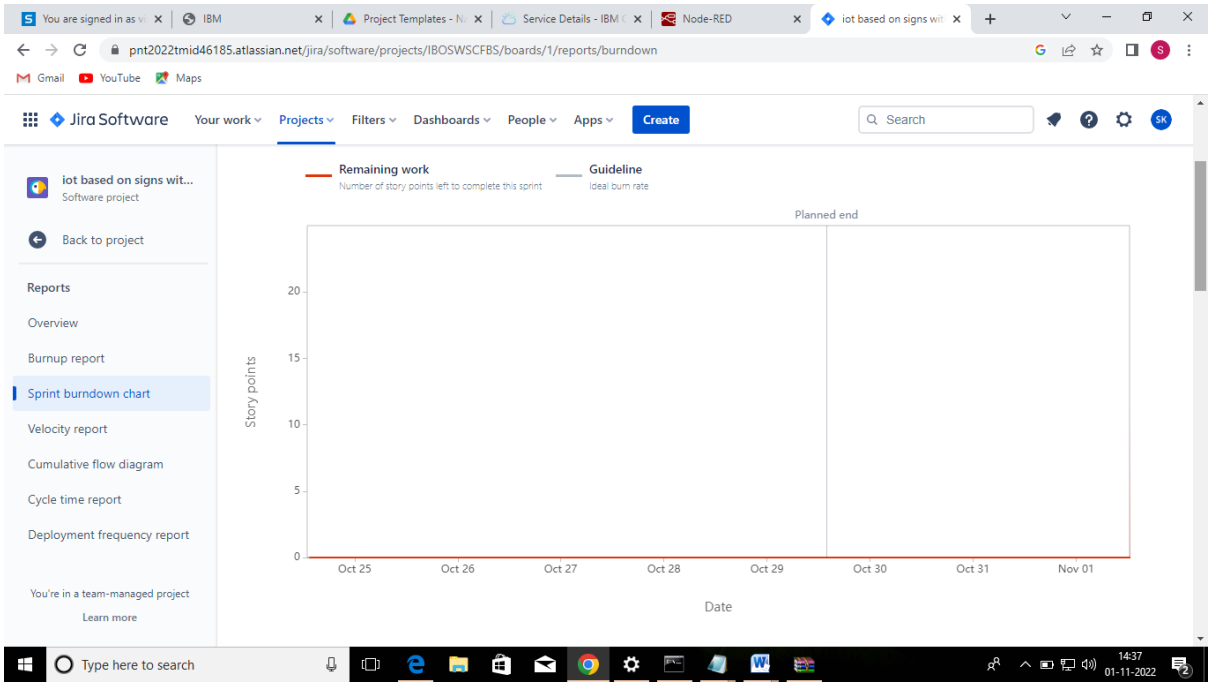
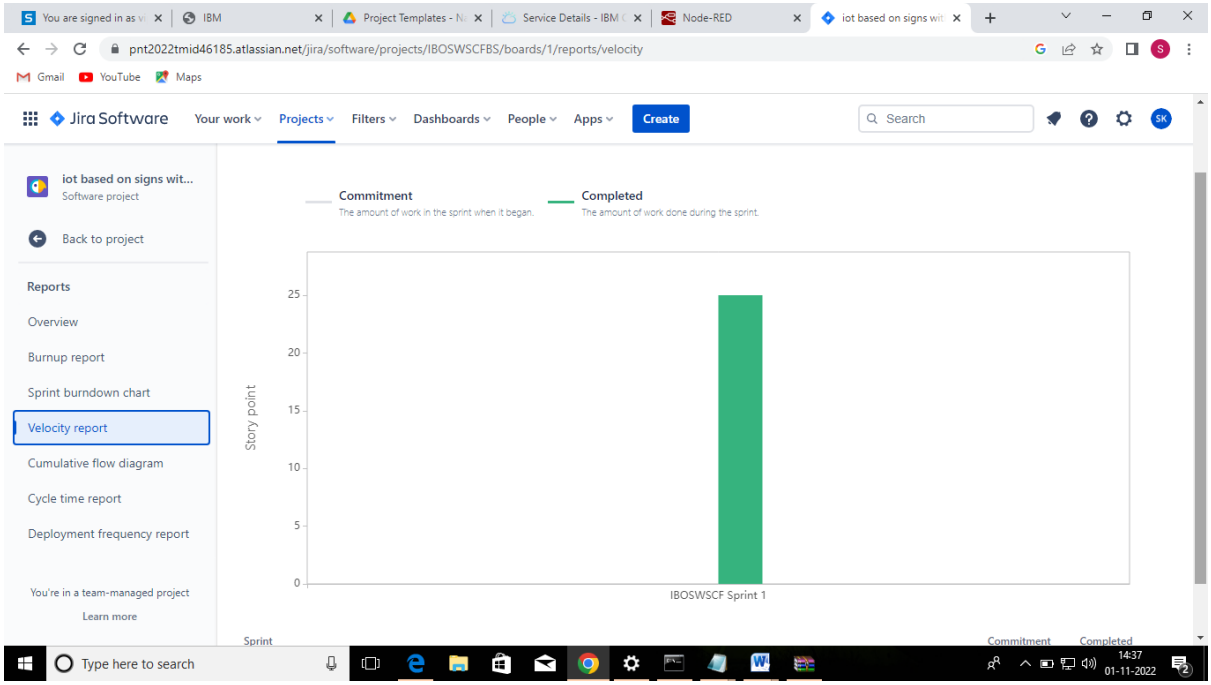
Node-Red Service



ROADMAP:



BURNDOWN CHART:



VELOCITY REPORT: