PROJECT DEVELOPMENT PHASE

SPRINT-1

Date	16 November 2022
Team ID	PNT2022TMID14030
Project Name	Signs with Smart Connectivity for BetterRoad Safety

SPRINT-1:

- In sprint-1, we collect temperature and humidity data from OpenWeatherMap website for a particular city as input.
- We have developed the code for the same and to publish it to IBM IoTWatson, node-red and finally display them in MIT APP INVENTOR.
- We have also implemented a condition such that, if humidity is less than100, then it displays a warning like “PLEASE SLOW DOWN”.

PYTHON CODE:

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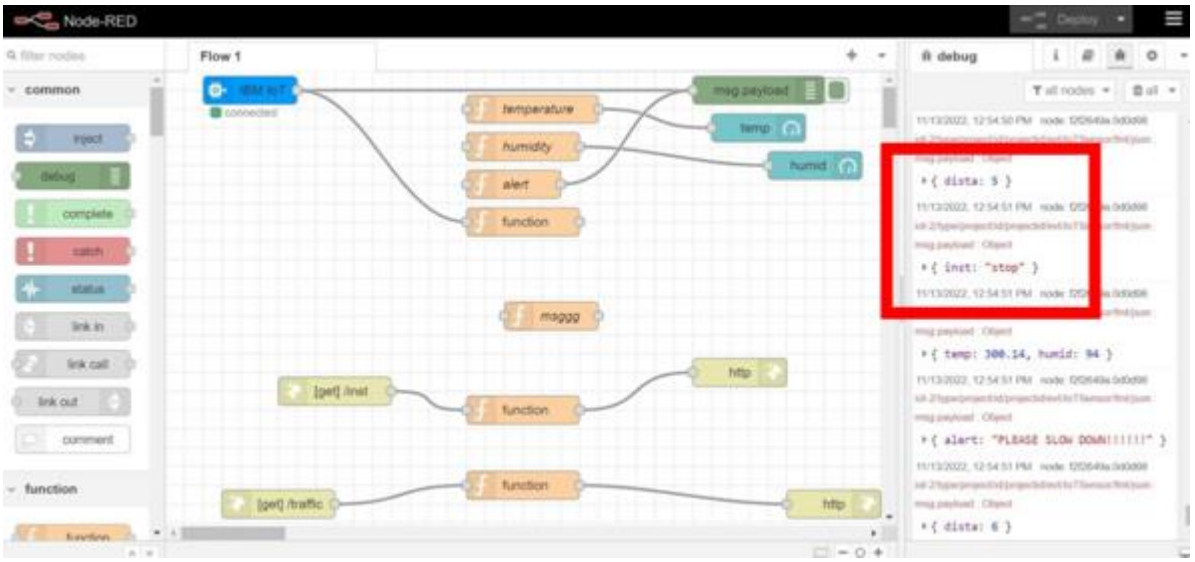
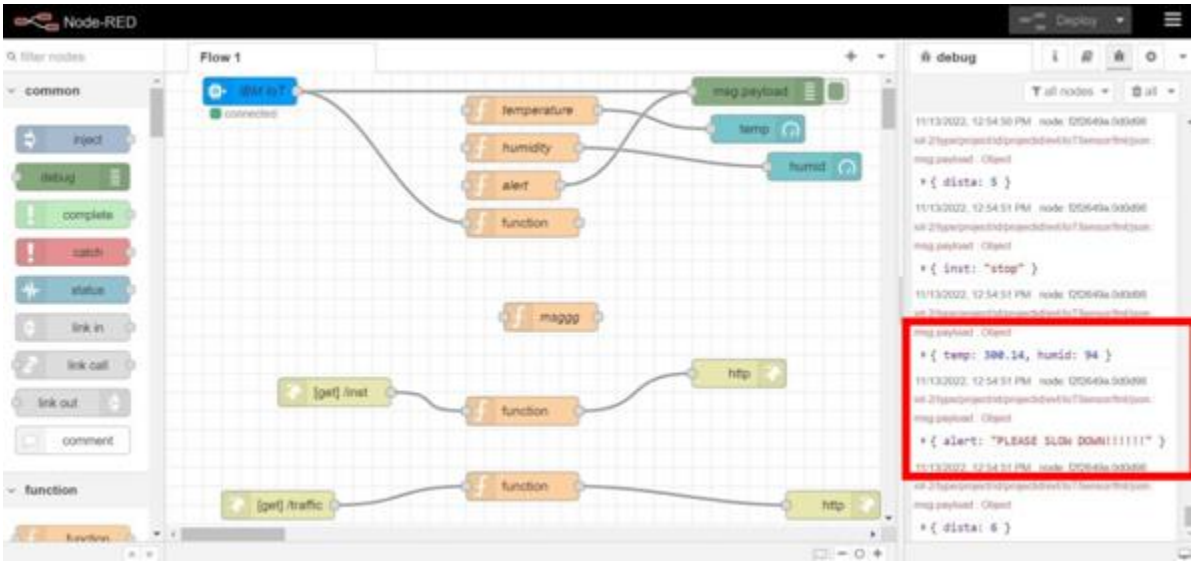
```
#connect and send a datapoint "temp" with value integer value into the cloud as a type of event for every 10 seconds
deviceCli.connect()

while True:

#get sensor data from DHT11



    a = "https://api.openweathermap.org/data/2.5/weather?q=Chennai,%20IN&appid=e2bea247ed9ad643a04d9a8e55499d5f"
    r=requests.get(url=a)
    data=r.json()

    Temp= data['main']['temp']
    Humd= data['main']['humidity']
    data= {'temp':Temp,'humid':Humd}
    dist=random.randint(0,50)
    dis={'dista':dist}

    if(Humd<100):
        warn={'alert':'PLEASE SLOW DOWN!!!!!!'}
```

IBM IoT WATSON PLATFORM:



NODE-RED:



MIT APP INVENTOR: