PROJECT DEVELOPMENT PHASE SPRINT-1

Date	12 November 2022	
Team ID	PNT2022TMID00923	
Project Name	Signs with Smart Connectivity for Better	
	Road Safety	

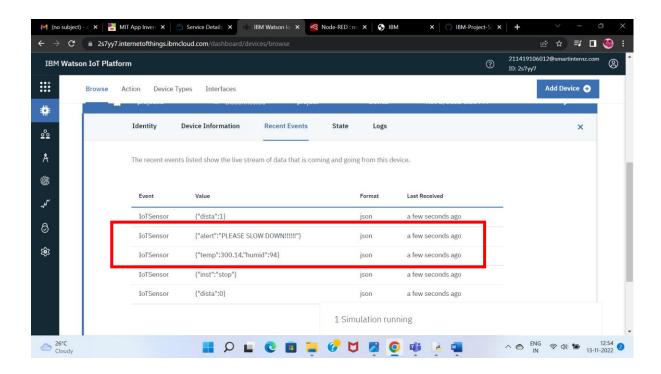
SPRINT-1:

- 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 IoT Watson, node-red and finally display them in MIT APP INVENTOR.
- We have also implemented a condition such that, if humidity is less than 100, then it displays a warning like "PLEASE SLOW DOWN".

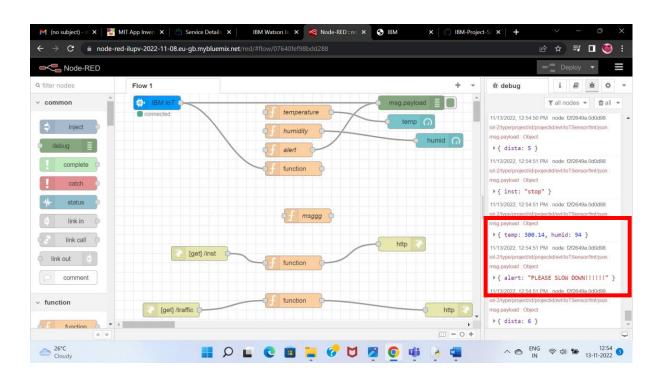
PYTHON CODE:

```
*PROJECTFINALDND.py - D:/1ibm/PROJECTFINALDND.py (3.7.0)*
File Edit Format Run Options Window Help
#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!!!!!!'}
```

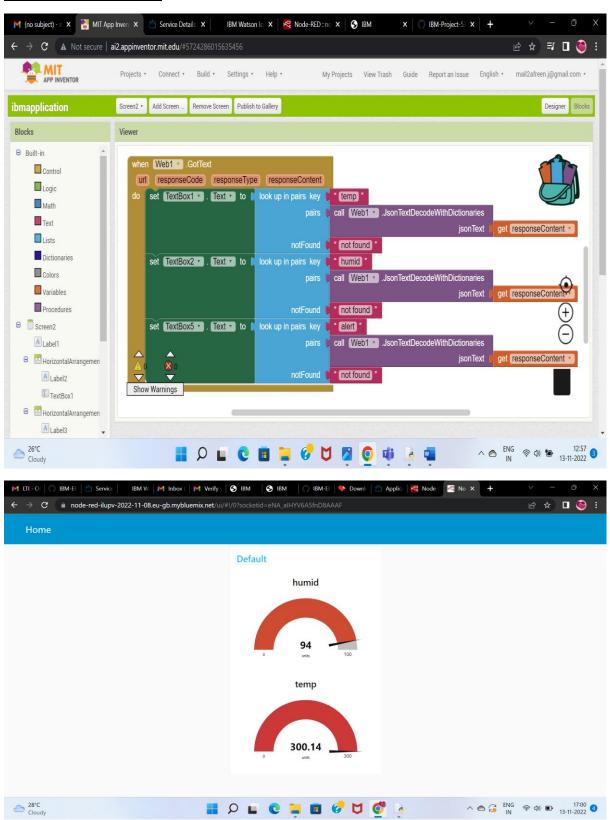
IBM IOT WATSON PLATFORM:



NODE-RED:



MIT APP INVENTOR:



USER APP SCREENSHOT:

11:59	& 0	💢 🛜 Voi)
Screen2		
WEATHER UPDATE		

TEMPERATURE:

300.14

HUMIDITY

94

BACK

PLEASE SLOW DOWN!!!!!