#### SPRINT-2

## **SOFTWARE**

Date	13 November 2022
Team ID	PNT2022TMID42278
Project Name	Hazardous Area Monitoring for Industrial Power Plant powered by IOT

## **PROCEDURE:**

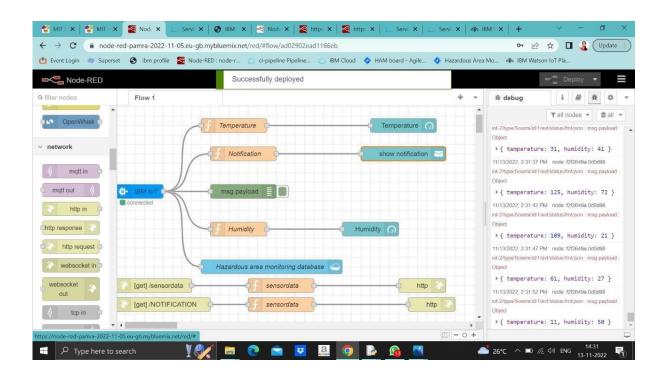
Step1: Develop node red application.

Step2: Install the required nodes from manage palette option.

Step3: Connect the node flow. Step4:

Deploy the flow.

## NODE RED:



## FUNCTION NODE COMMAND TO INDICATE THE TEMPERATURE:

msg.payload=msg.payload.temperature;

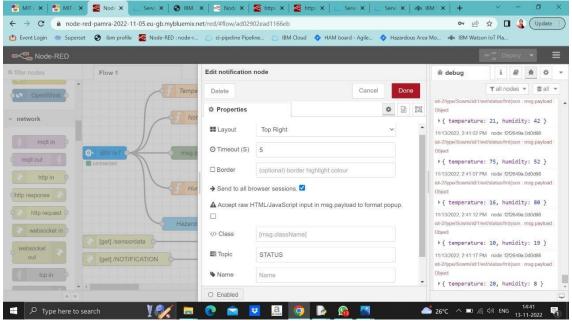
global.set('temperature',msg.payload); return

msg;

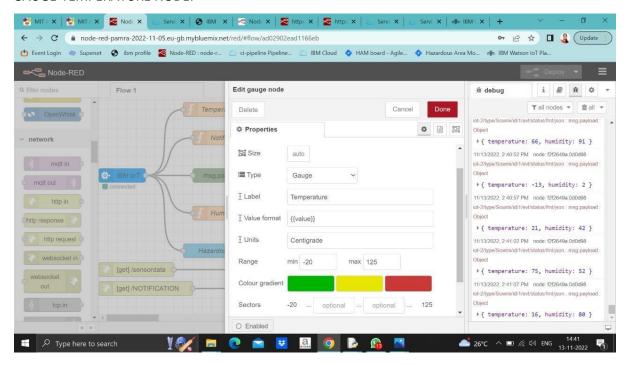
```
FUNCTION NODE COMMAND TO INDICATE THE HUMIDITY:
msg.payload=msg.payload.humidity;
global.set('humidity',msg.payload); return
msg;
FUNCTION NODE COMMAND TO SHOW THE STATUS:
temperature=msg.payload.temperature;
humidity=msg.payload.humidity; if(temperature>50
& humidity>50){ msg.payload="Temperature and
Humidity Alert!";
}
else if(temperature>50){ msg.payload="Temperature
Alert!";
}
else if(humidity>50){ msg.payload="Humidity
Alert!";
}
else {msg.payload="safe";} return
msg;
FUNCTION NODE COMMAND TO GET THE HTTP REQUEST FOR SENSOR DATA:
msg.payload={
  "temperature":global.get('temperature'),
  "humidity":global.get('humidity')
}
return msg;
```

# FUNCTION NODE COMMAND TO GET THE HTTP REQUEST FOR STATUS: msg.payload={ "temperature":global.get('temperature'), "humidity":global.get('humidity') } temperature=msg.payload.temperature; humidity=msg.payload.humidity; if(temperature>50 & humidity>50){ msg.payload="Temperature and Humidity Alert!"; } else if(temperature>50){ msg.payload="Temperature Alert!"; } else if(humidity>50){ msg.payload="Humidity Alert!"; } else {msg.payload="safe";} return msg;

**NOTIFICATION NODE:** 



#### **GAUGE-TEMPERATURE NODE:**



**GAUGE-HUMIDITY NODE:** 

