

Sprint – 4

Team ID: PNT2022TMID17812

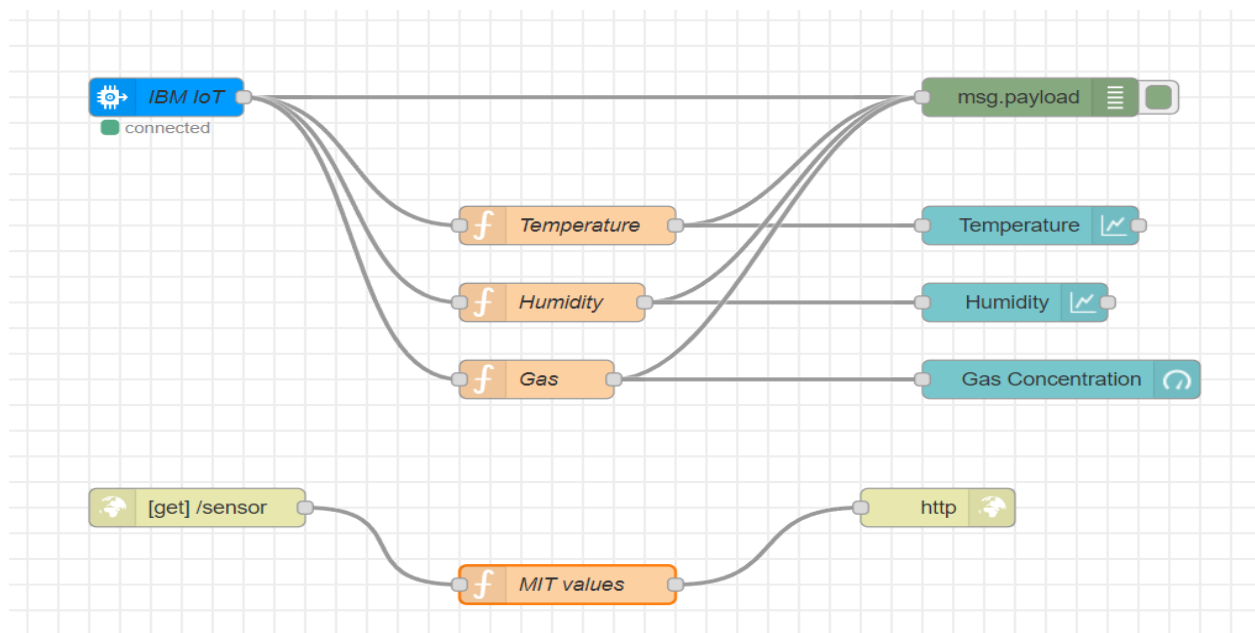
Task:

To receive the data from Node-RED to the Mobile App developed using MIT App Inventor.

Procedure:

1. In Node-RED **http** node is added to post the data gathered from IBM Watson IoT Platform to a webpage.
2. Screen – 3 is developed to gather data from the website where the data is published by Node-RED.
3. In case of abnormal environmental conditions. An alert message is generated by MIT App.

1. Node-RED:



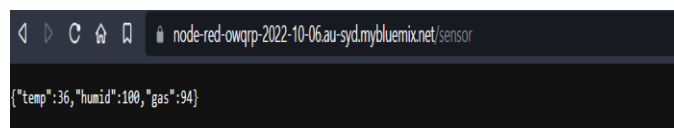
MIT values (Function):

This function is responsible to post the sensor data to the webpage from where the data is gathered by MIT App.

Source Code:

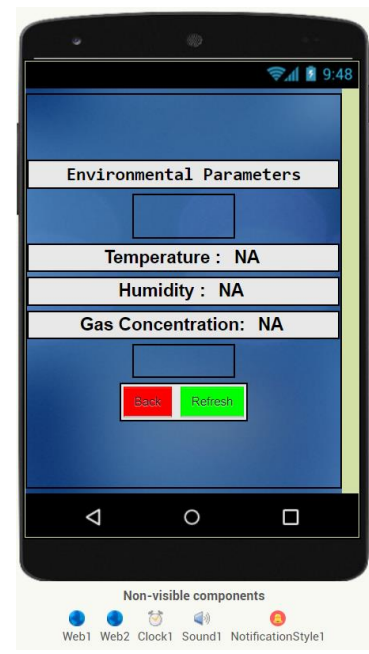
```
msg.payload = {"temp":global.get("t"), "humid":global.get("h"),  
"gas":global.get("g")};  
  
return msg;
```

2. Web page:

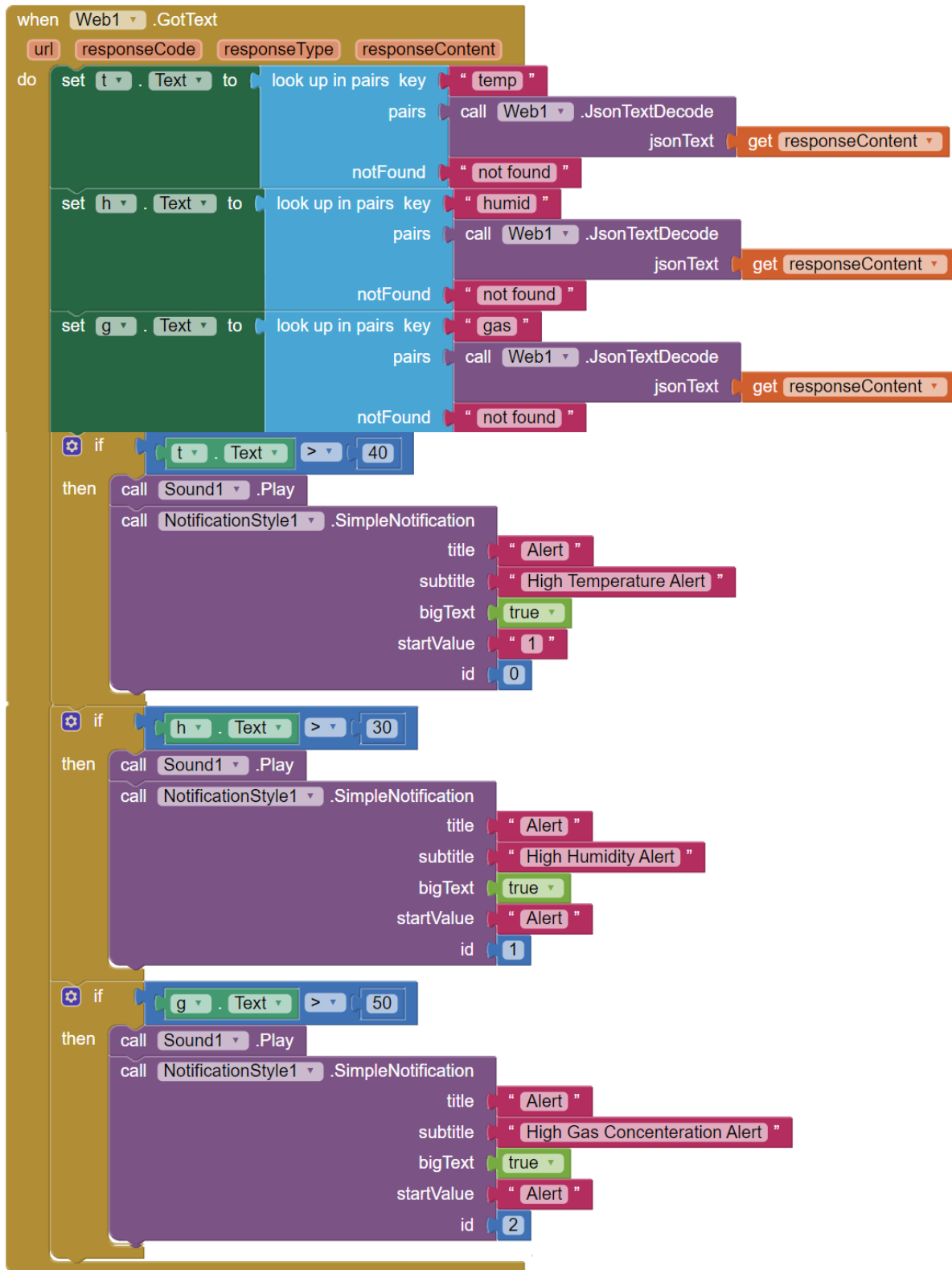


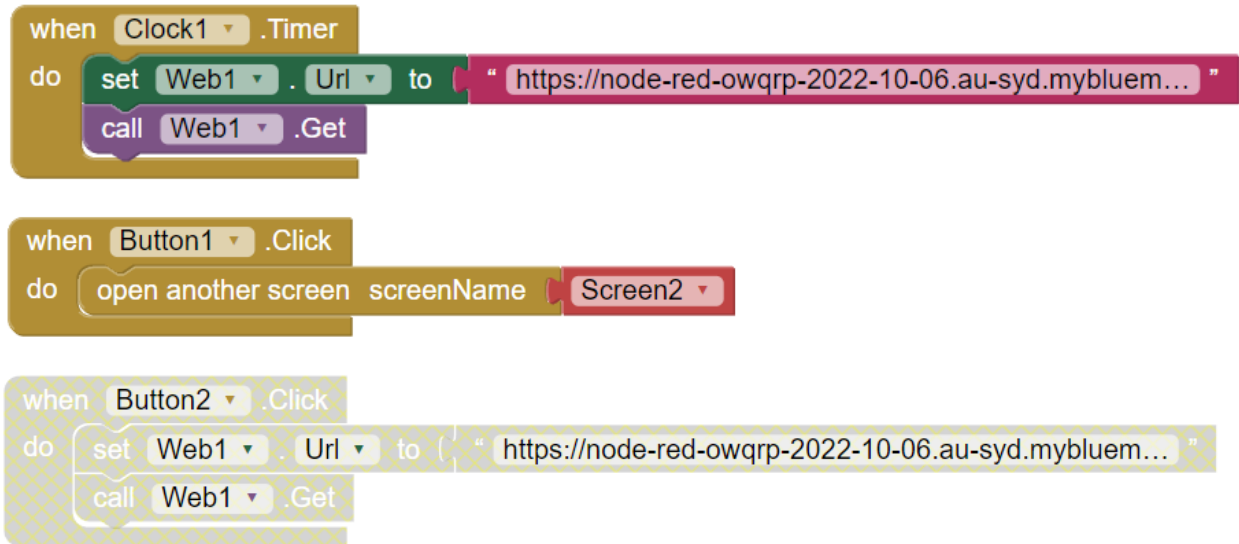
3. MIT App:

1. Blocks for screen 3 has been developed.
2. Blocks are capable of generating notification when,
 - a. Temperature is greater than 40°C
 - b. Humidity is greater than 30%
 - c. Concentration of gas is greater than 50%
3. Not only notification, this also rings an alarm whenever abnormal



Screen – 3 (Blocks):





These above written blocks are responsible for bringing the data to the mobile app and to generate alarms incase of emergency.