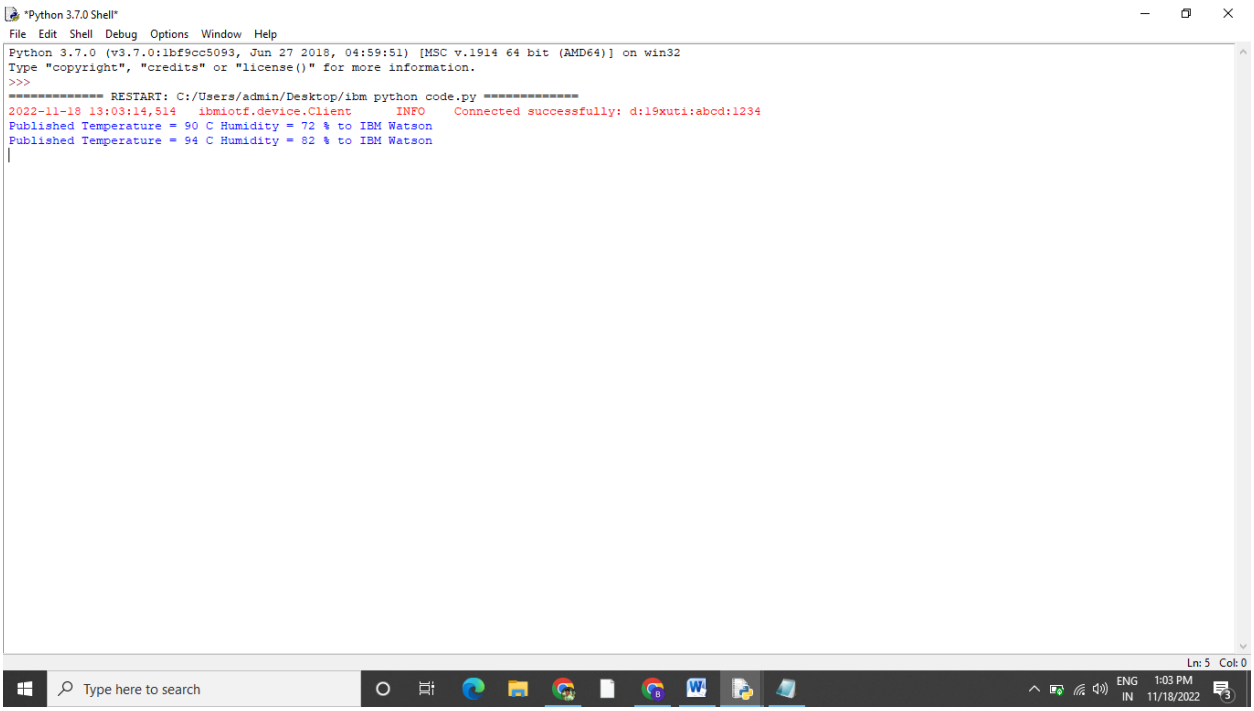
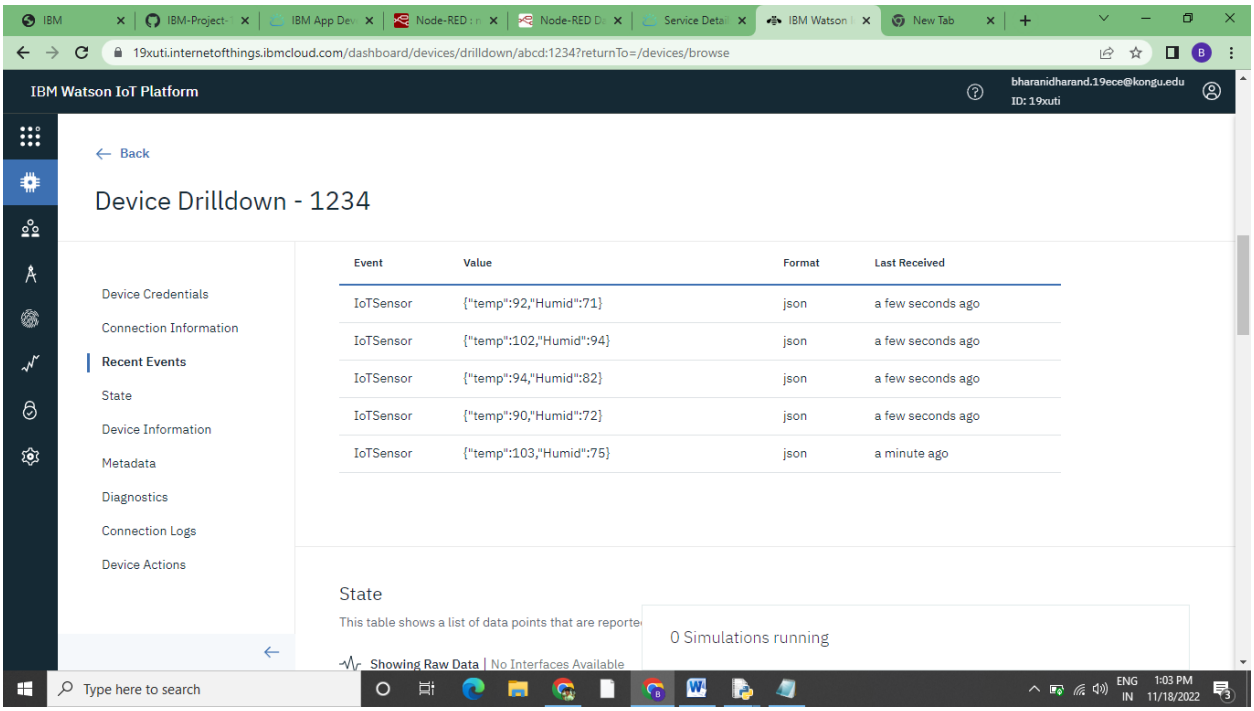
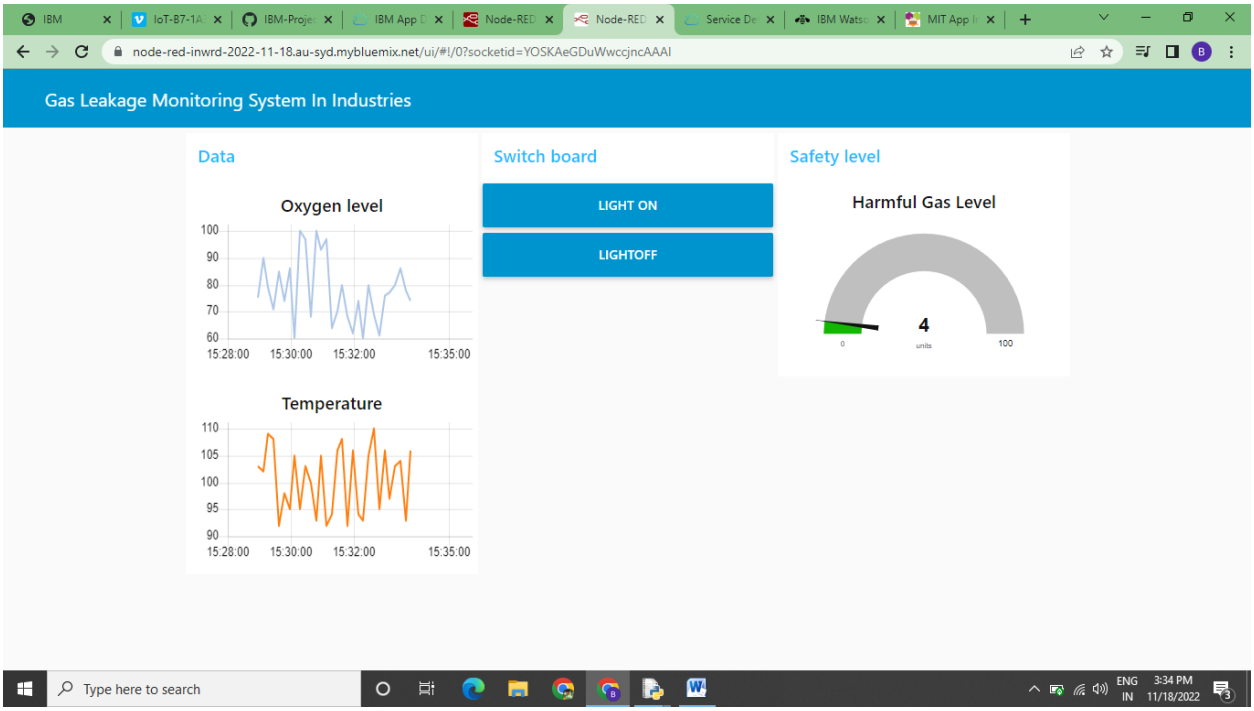
Team id: PNT2022TMID04560

Project name: Gas leakage monitoring and Alerting system for industries

Connect to IBM using python script and getting the information in the application developed using MIT app inventor:



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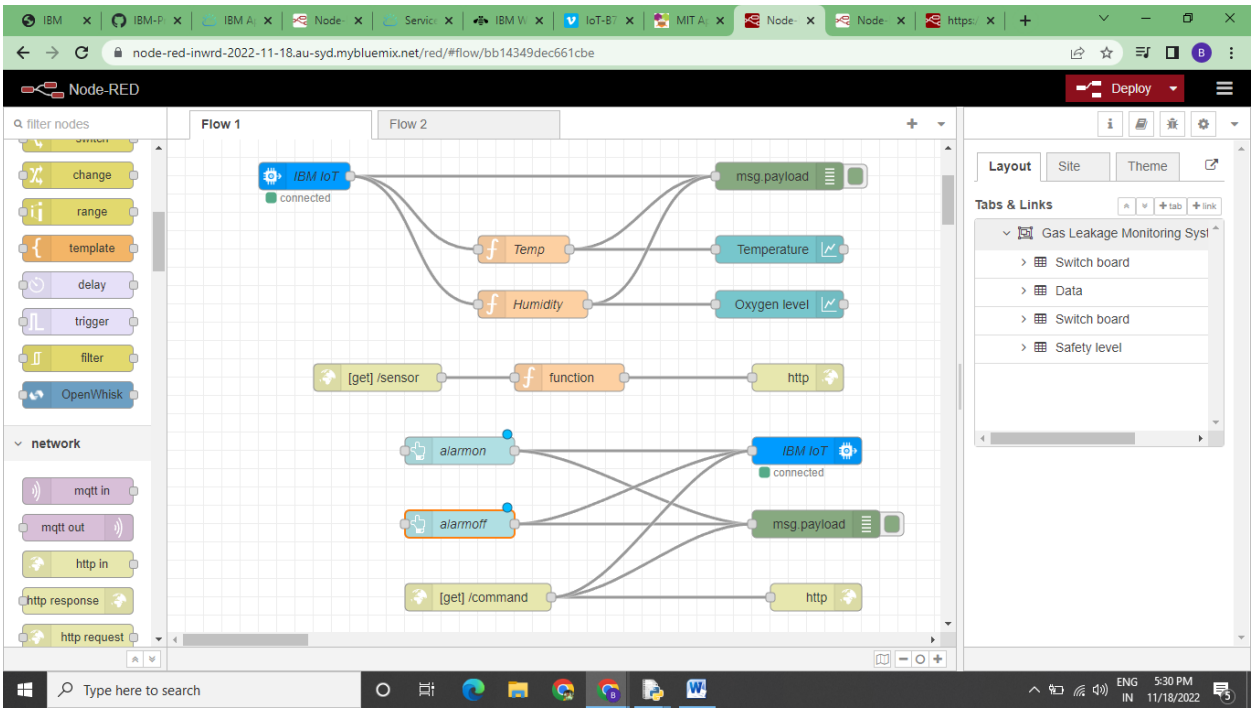
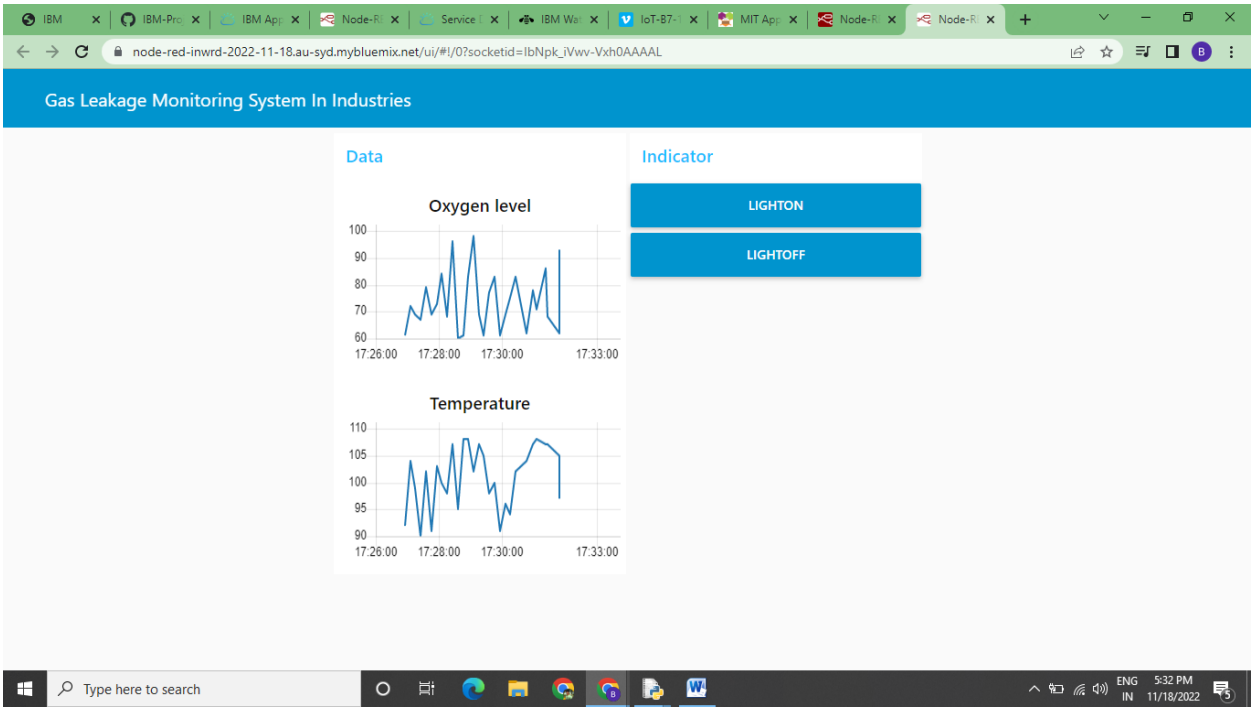
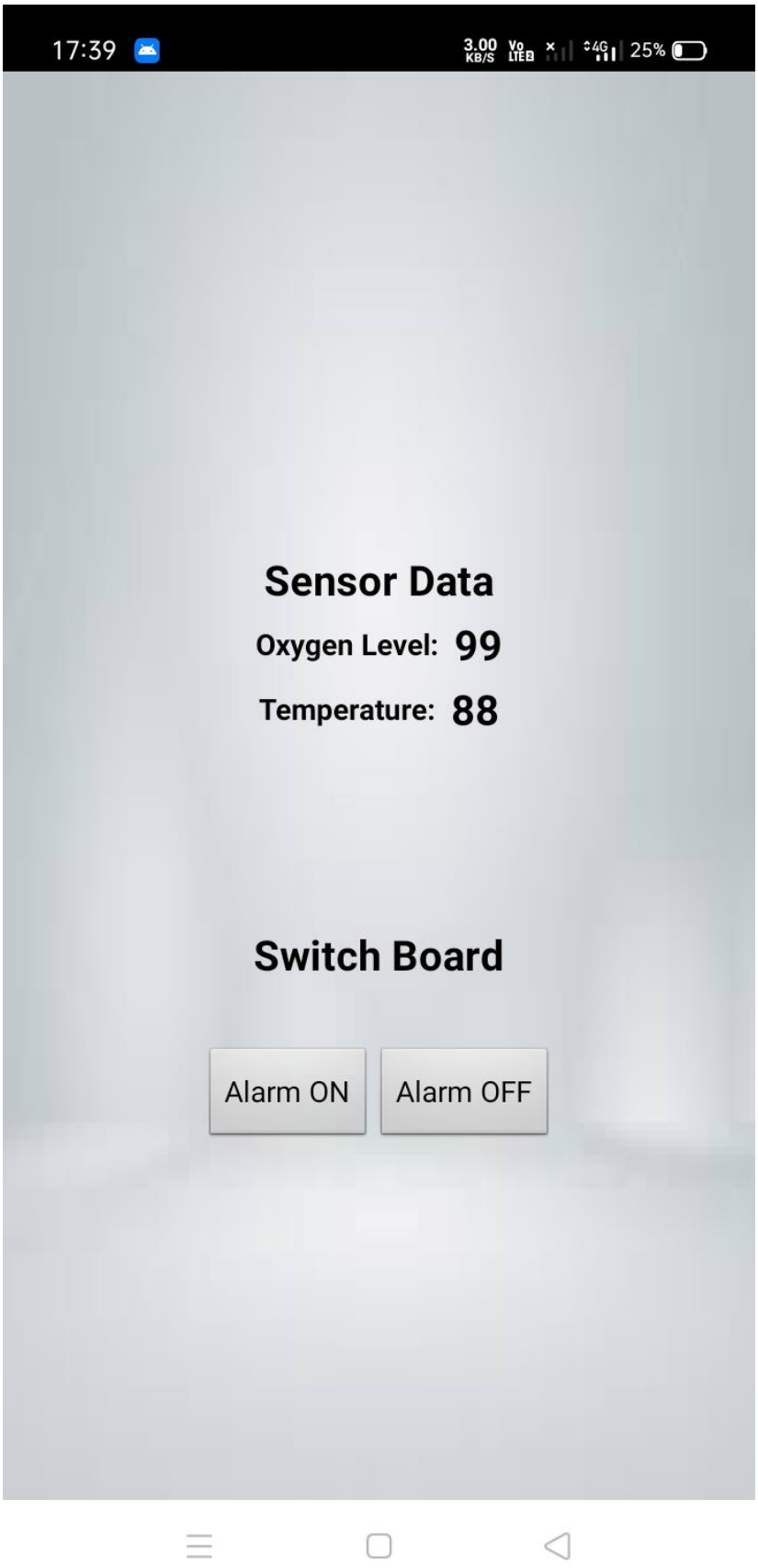
Gas Leakage Monitoring System In Industries
Data
Oxygen level
100
90
80
70
60
15:28:00
15:30:00
15:32:00
15:35:00
Temperature
110
105
100
95
90
15:28:00
15:30:00
15:32:00
15:35:00
Switch board
LIGHT ON
LIGHTOFF
Safety level
Harmful Gas Level
4
units
0
100
Type here to search
ENG
IN
3:34 PM
11/18/2022


node-red-inwrd-2022-11-18.au-syd.mybluemix.net/red/#flow/bb14349dec661cbe
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
change
range
template
delay
trigger
filter
OpenWhisk
network
mqtt in
mqtt out
http in
http response
http request
IBM IoT
connected
msg.payload
Temp
Temperature
Humidity
Oxygen level
[get] /sensor
function
http
alarmon
alarmoff
[get] /command
Layout
Site
Theme
Tabs & Links
Gas Leakage Monitoring Syst
Switch board
Data
Switch board
Safety level
Type here to search
ENG
IN
5:30 PM
11/18/2022


node-red-inwrd-2022-11-18.au-syd.mybluemix.net/ui/#!/0?socketid=IbNpk_iVwv-Vxh0AAAAL
Gas Leakage Monitoring System In Industries
Data
Oxygen level
100
90
80
70
60
17:26:00
17:28:00
17:30:00
17:33:00
Temperature
110
105
100
95
90
17:26:00
17:28:00
17:30:00
17:33:00
Indicator
LIGHTON
LIGHTOFF
Type here to search
ENG
IN
5:32 PM
11/18/2022


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published Temperature = 100 C Humidity = 61 % to IBM Watson
Published Temperature = 90 C Humidity = 81 % to IBM Watson
Published Temperature = 102 C Humidity = 95 % to IBM Watson
Command received: lightoff
led is off
Published Temperature = 103 C Humidity = 60 % to IBM Watson
Published Temperature = 94 C Humidity = 90 % to IBM Watson
Published Temperature = 105 C Humidity = 71 % to IBM Watson
Published Temperature = 103 C Humidity = 98 % to IBM Watson
Published Temperature = 91 C Humidity = 64 % to IBM Watson
Published Temperature = 98 C Humidity = 66 % to IBM Watson
Published Temperature = 90 C Humidity = 86 % to IBM Watson
Published Temperature = 95 C Humidity = 92 % to IBM Watson
Published Temperature = 102 C Humidity = 67 % to IBM Watson
Published Temperature = 92 C Humidity = 77 % to IBM Watson
Published Temperature = 105 C Humidity = 100 % to IBM Watson
Published Temperature = 109 C Humidity = 97 % to IBM Watson
Published Temperature = 102 C Humidity = 98 % to IBM Watson
Published Temperature = 102 C Humidity = 100 % to IBM Watson
Published Temperature = 94 C Humidity = 64 % to IBM Watson
Published Temperature = 94 C Humidity = 87 % to IBM Watson
Published Temperature = 110 C Humidity = 99 % to IBM Watson
Published Temperature = 95 C Humidity = 99 % to IBM Watson
Command received: lighton
led is on
Command received: lightoff
led is off
Command received: lighton
led is on
Published Temperature = 97 C Humidity = 96 % to IBM Watson
Command received: lightoff
led is off
Command received: lighton
led is on
Published Temperature = 102 C Humidity = 70 % to IBM Watson
Published Temperature = 90 C Humidity = 86 % to IBM Watson
Published Temperature = 90 C Humidity = 68 % to IBM Watson
Published Temperature = 97 C Humidity = 62 % to IBM Watson
Published Temperature = 108 C Humidity = 65 % to IBM Watson
Published Temperature = 93 C Humidity = 74 % to IBM Watson
Command received: lighton
Ln: 697 Col: 0
Type here to search
ENG
IN
5:34 PM
11/18/2022


17:39
3.00 KB/S
25%
Sensor Data
Oxygen Level: 99
Temperature: 88
Switch Board
Alarm ON
Alarm OFF