

Sprint - 2

Dashboard and Control Tab

Date	08 November 2022
Team ID	PNT2022TMID23394
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application

As a user I want to access My dashboard tab.

As a user I want to access my control tab.

```
main.py X
C: > Users > SangeethaVP > Desktop > IBM > main.py > ...
1  #import sys
2  #sys.path.append('C:/Users/SangeethaVP/AppData/Local/Programs/Python/Python37/Lib/site-packages')
3  import time
4  import os
5  import datetime
6  import random
7  import wiotp.sdk.application
8  #CallBack function to receive the commands from cloud
9  def myCommandCallback(cmd):
10     print ("Message received from IBM IoT Platform: %s" )
11     cmd.data(['command'])
12     m = cmd.data['command']
13     if(m=="motoron"):
14         print("Motor is switched on")
15     elif(m=="motoroff"):
16         print("Motor is switched OFF")
17     print(" ")
18     #Device credentials
19     myConfig = {
20         "identity": {
21             "orgId": "1v150i",
22             "typeId": "weather_device",
23             "deviceId": "weather_today"
24         },
25         "auth": {
26             "token": "J2qEAJhe2nph-Nj1D"
27         }
28     }
29     #Making Connection to cloud
30     client = wiotp.sdk.device.DeviceClient(config=myConfig,
31     logHandlers=None)
32     client.connect()
33     #Sending data for every 2 seconds to cloud
34     while True:
35         soil=random.randint(0, 100)
36         temp=random.randint(-20,125)
37         hum=random.randint(0, 100)
38         myData={'soil_moisture': soil, 'temperature': temp, 'humidity':hum}
39         client.publishEvent(eventId="status", msgFormat="json",
40         data=myData, qos=0, onPublish = None)
41         print("Published data Successfully: %s", myData)
42         time.sleep(2)
43         client.commandCallback = myCommandCallback
44     #Disconnected from cloud
45     client.disconnect()
```

```

C:\Windows\System32\cmd.exe - python main.py
Microsoft Windows [Version 10.0.19045.2311]
(c) Microsoft Corporation. All rights reserved.

C:\Users\SangeethaVP\Desktop\IBM>python main.py

2022-11-21 22:46:01,864  wiotp.sdk.device.client.DeviceClient INFO    Connected successfully: d:1v150i:weather_device:weather_today
Published data Successfully: %s {'soil_moisture': 67, 'temperature': 82, 'humidity': 7}
Published data Successfully: %s {'soil_moisture': 12, 'temperature': 31, 'humidity': 65}

```

1v150i.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform 113219031143@smartinternz.com ID: 1v150i

Browse Action Device Types Interfaces Add Device +

Search by Device ID Device Simulator ☒ ☐ ☐

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID
> <input type="checkbox"/>	12345	Disconnected	NodeMCU	Device
> <input type="checkbox"/>	weather_today	Connected	weather_device	Device

Items per page 50 | 1-2 of 2 items 1 of 1 page < 1 >

1 Simulation running

IBM Watson IoT Platform

Browse Action Device Types Interfaces

Search by Device ID

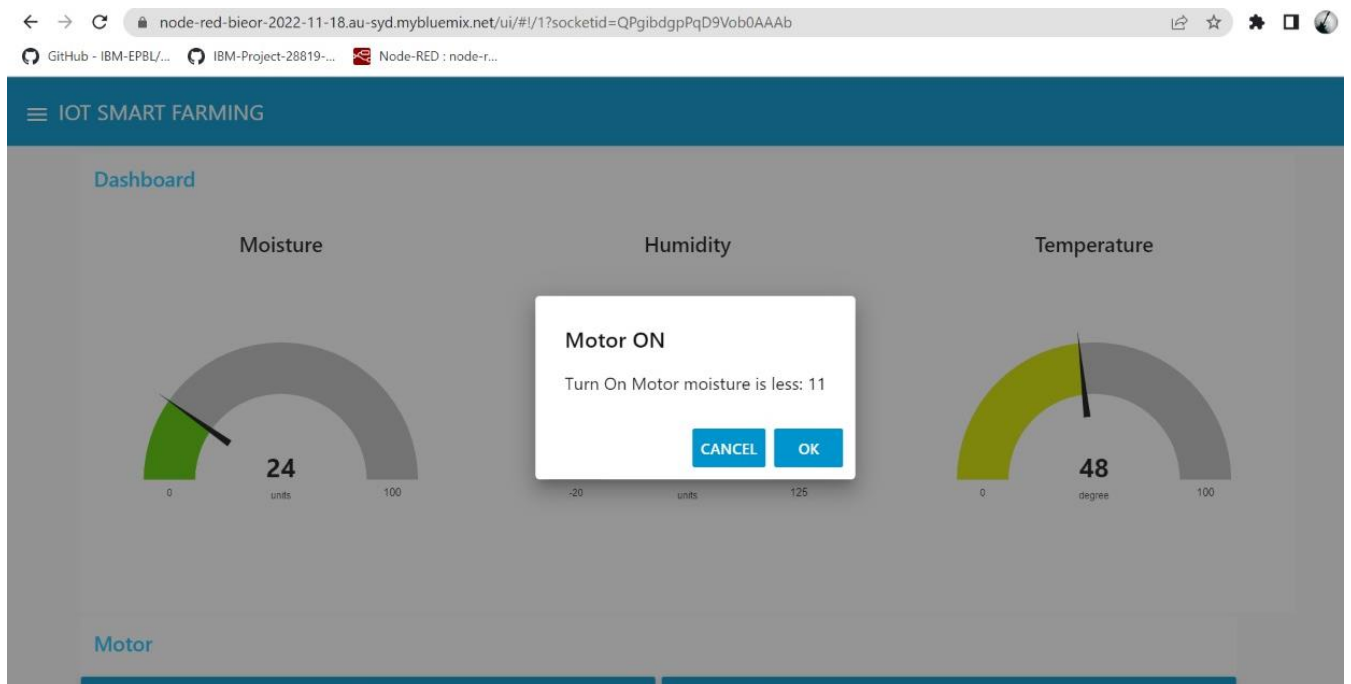
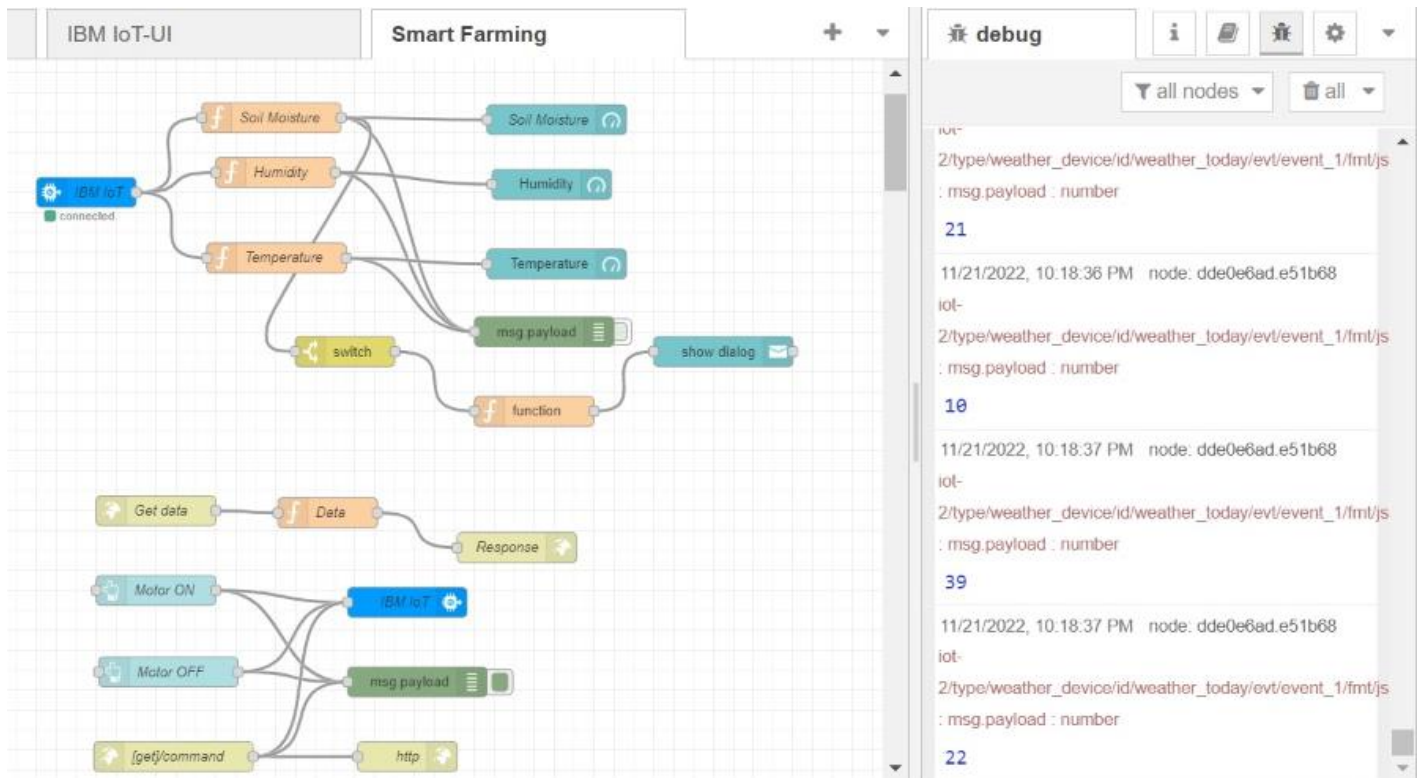
<input type="checkbox"/>	Device ID	Status
> <input type="checkbox"/>	12345	Disconnected
> <input type="checkbox"/>	weather_today	Connected

Items per page 50 | 1-2 of 2 items

Simulations Import/Export simulation

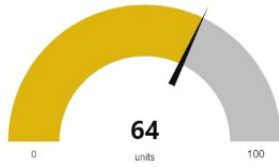
1/50 Simulations Running + New Simulation

Device Type weather_device 1 Event ☒ ☐

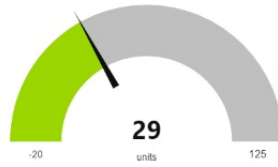


Dashboard

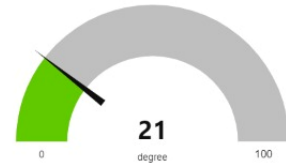
Moisture



Humidity



Temperature



Motor

MOTOR OFF

MOTOR OFF