SPRINT 3 REPORT

SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

TEAM ID – PNT2022TMID16939

- TEAM LEADER: DIVYADHARSHINI B
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Project Tracker

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned	Sprint Release Date (Actual)		
					End Date)			
Sprint-1	15	5 Days	26 Oct 2022	30 Oct 2022	15	30 Oct 2022		
Sprint-2	15	7 Days	31 Oct 2022	06 Nov 2022	15	07 Nov 2022		
Sprint-3	15	6 Days	07 Nov 2022	12 Nov 2022	15	13 Nov 2022		
Sprint-4	15	6 Days	13 Nov 2022	18 Nov 2022		18 Nov 2022 – 19 Nov 2022		

S.NO	Tools & Technology Used
1	Python 3.7.0
2	IBM Cloud
3	Node-Red

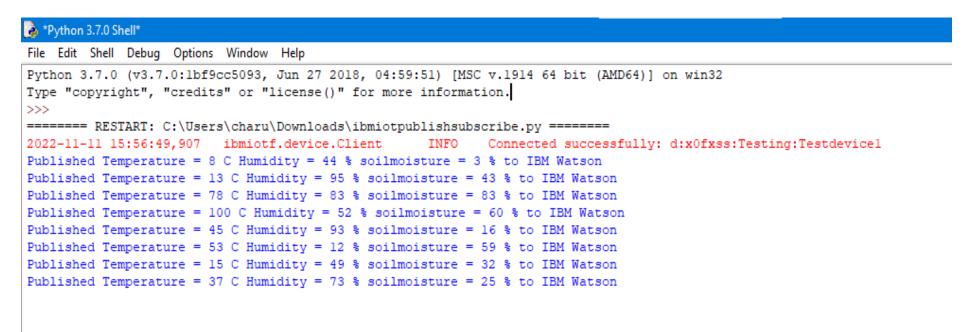
Python Script:

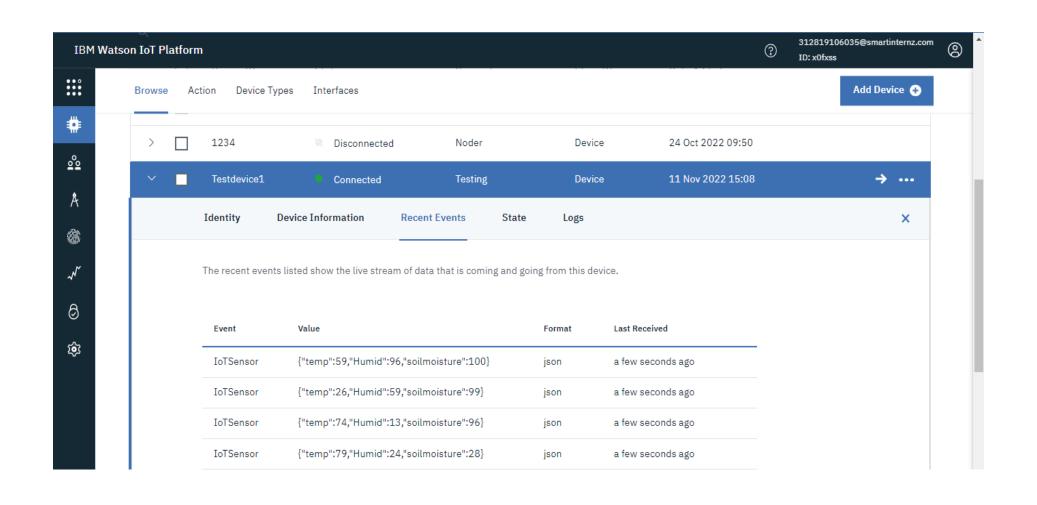
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "x0fxss" #replace the ORG ID
deviceType = "Testing"#replace the Device type wi
deviceId = "Testdevice1"#replace Device ID
authMethod = "token"
authToken = "123456789" #Replace the authtoken
# Initialize GPIO
#Receives Command from Node-red
def myCommandCallback(cmd):
    print ("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="motoron":
        print ("motor is on")
    elif status == "motoroff" :
        print ("motor is off")
    elif status == "motor30" :
        print ("motor is on for 30 minutes")
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-method": authMethod, "auth-token":
authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
```

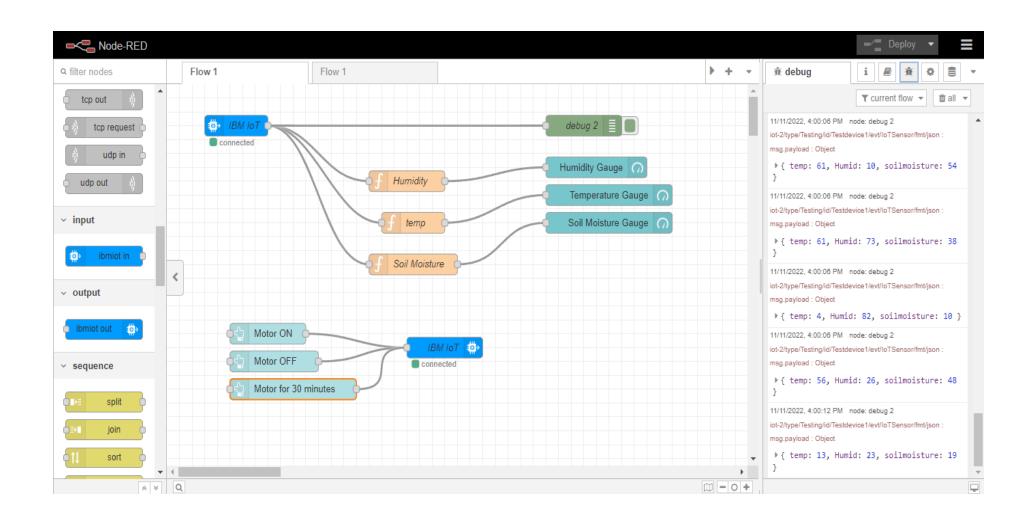
```
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()
# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type "greeting" 10 times
deviceCli.connect()
while True:
        #Get Sensor Data from DHT11
        temp=random.randint(0,100)
        Humid=random.randint(0,100)
        soilmoisture=random.randint(0,100)
        data = { 'temp' : temp, 'Humid': Humid, 'soilmoisture': soilmoisture }
        #print data
        def myOnPublishCallback():
            print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "soilmoisture = %s %%"
%soilmoisture, "to IBM Watson")
        success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
        time.sleep(5)
        deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

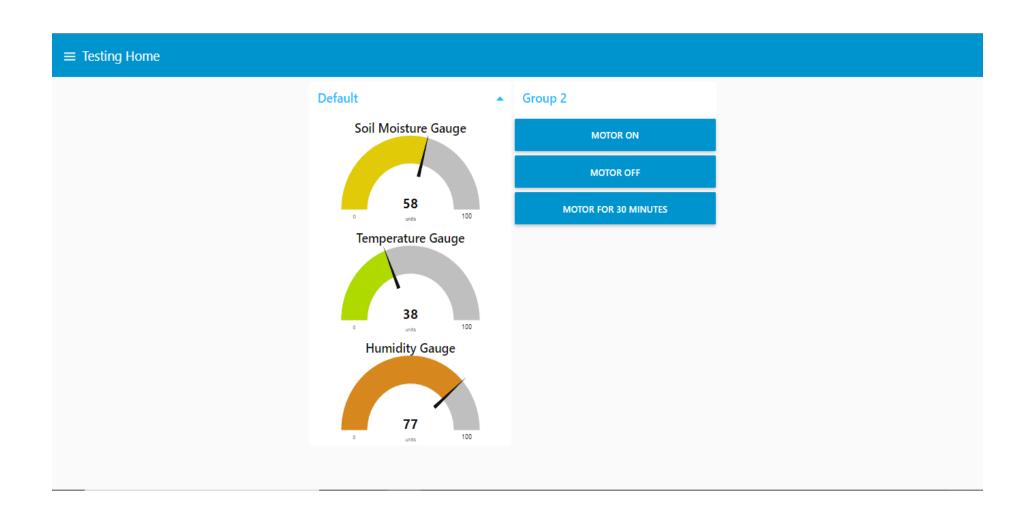
OUTPUT:

We are running python script to send data to IBM cloud and data is displayed in web-ui by using node-red.









Data are successfully received and displayed.



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Projects / Smart Farmer Development Phase / SFDP board / Reports

Velocity Chart





Sprint	Commitment	Completed
SFDP Sprint 1	15	15
SFDP Sprint 2	15	15
SFDP Sprint 3	15	15

	NOV 3	4	5	6	7	8	9	NOV 10	11	12	13	14	15	16	NOV 17
Sprints		SFDP S	print 2			8		Sprint 3							
Releases															
> SFDP-1 This Epic is to accomplish user should able															
> SFDP-2 This Epic is to accomplish user should able															
> SFDP-3 This Epic is to create a dashboard in our ap															
> SFDP-4 This Epic is to accomplish the IoT Device C															
> SFDP-5 This Epic is to accomplish to solve the user															
> SFDP-6 This Epic is to accomplish to solve the user															
> SFDP-7 This Epic is to accomplish to solve particula															
> SFDP-8 This Epic is to accomplish the conection wit															
> SFDP-9 This Epic is to accomplish to application Cr															

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SFDP Sprint 3

Story Points ▼



