

SMART FARMER – IOT ENABLEDD SMART FARMING

APPLICATION

PROJECT DEVELOPMENT – DELIVERY OF

SPRINT – 3

DATE	17 NOVEMBER 2022
TITLE	SMART FARMER – IOT ENABLED SMART FARMING APPLICATION
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DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBETOIBMIOTPLATFORM:

PYTHON CODE

```
import wiotp.sdk.device
import time import os
import datetime import
random
```

```
myConfig = {
"identity":{
"orgId":"nqhzg5",
"typeId":"Node-red",
```

```
"deviceId":"1234"
},
"auth":{
"token":"12345678"
} } client =
wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None) client.connect()
```

```
def myCommandCallback(cmd):
    print("Message received from IBM IoT platform: %s"
% cmd.data['command'])
    m=cmd.data['command']
    if(m=="motoron"):
        print("Motor is Switched on")
    elif(m=="motoroff"):
        print("Motor is Switched off")
    print(" ") while True:
        soil=random.randint(0,100)
        temp=random.randint(-20,125)
        hum=random.randint(0,100)

    myData={'soil_moisture':soil,'temperature':temp,'humidity':hum}
    client.publishEvent(eventId="status",          msgFormat="json",
```

```
data=myData, qos=0, onPublish=None) print("Published data  
successfully: %s", myData) time.sleep(2)
```

```
client.commandCallback = myCommandCallback
```

```
client.disconnect()
```

OUTPUT

Edit ibmiot in node

Delete Cancel Done

Properties

Authentication API Key

API Key IBMIOT_APIKEY

Input Type Device Event

Device Type ☐ All of abcd

Device Id ☐ All of 7554321

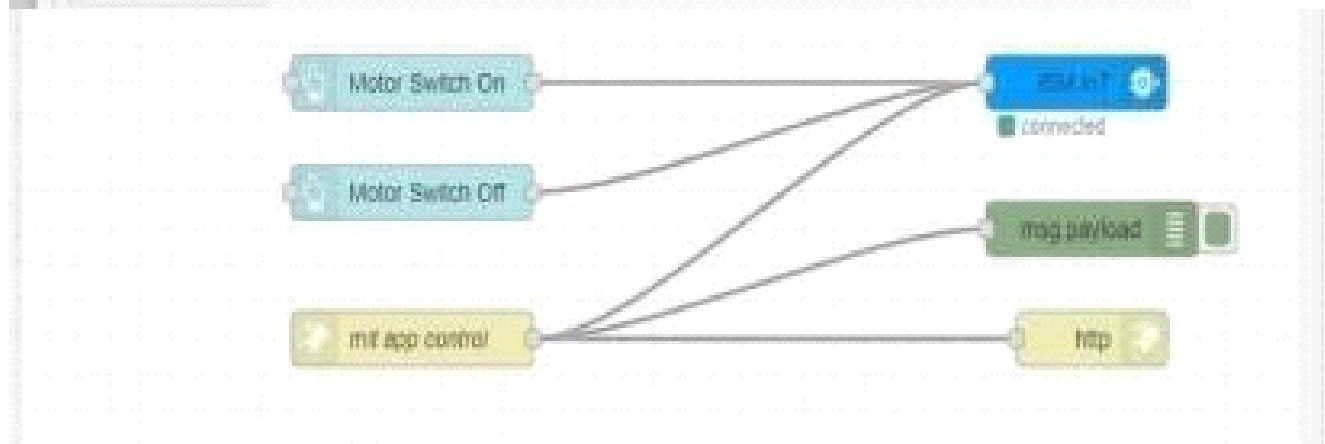
Event ☒ All of +

Format ☐ All of json

QoS 0

Name IBM IoT

Enabled



MOBILE APP WEB:

