Project Development Phase Sprint - 2

Date	5 November 2022
Team ID	PNT2022TMID03577
Project Name	Smart farmer - IoT Enabled Smart Farming Application

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Smart_Farming.py - C:\Users\A S ABISHEK\AppData\Local\Programs\Python\Python37\Smart_Farming.py (3.7.0)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig={
    "identity":{
         "orgId": "uq23sr",
          "typeId": "Smart_Farming",
          "deviceId": "32826"
     "auth": {
         "token": "3wNLT001g8VpEJEpsq"
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,'humiduty':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()
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Python 3.7.0 Shell
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Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
 RESTART: C:\Users\A S ABISHEK\AppData\Local\Programs\Pvthon\Pvthon37\Smart Farming.pv
2022-11-06 01:11:23,500 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:ug23sr:Smart Farming:32826Published
data successfully: %s
{'soil moisture': 83, 'temperature': 29, 'humiduty': 36}
Published data successfully: %s {'soil moisture': 47, 'temperature': 96, 'humiduty': 25}
Published data successfully: %s {'soil moisture': 45, 'temperature': 5, 'humiduty': 49}
Published data successfully: %s {'soil moisture': 82, 'temperature': 29, 'humiduty': 80}
Published data successfully: %s ('soil moisture': 92, 'temperature': 49, 'humiduty': 86)
Published data successfully: %s {'soil moisture': 60, 'temperature': 11, 'humiduty': 98}
Published data successfully: %s {'soil moisture': 40, 'temperature': -18, 'humiduty': 100}
Published data successfully: %s {'soil moisture': 17, 'temperature': 80, 'humiduty': 33}
Published data successfully: %s {'soil moisture': 60, 'temperature': 93, 'humiduty': 95}
Published data successfully: %s {'soil moisture': 22, 'temperature': 15, 'humiduty': 70}
Published data successfully: %s {'soil moisture': 78, 'temperature': 72, 'humiduty': 15}
Published data successfully: %s {'soil moisture': 42, 'temperature': 41, 'humiduty': 63}
Published data successfully: %s {'soil moisture': 21, 'temperature': 61, 'humiduty': 50}
Published data successfully: %s {'soil moisture': 36, 'temperature': 95, 'humiduty': 56}
Published data successfully: %s {'soil moisture': 14, 'temperature': 102, 'humiduty': 74}
Published data successfully: %s {'soil moisture': 34, 'temperature': 31, 'humiduty': 44}
Published data successfully: %s ('soil moisture': 95, 'temperature': 1, 'humiduty': 37)
Published data successfully: %s {'soil moisture': 58, 'temperature': 61, 'humiduty': 97}
Published data successfully: %s {'soil moisture': 94, 'temperature': 86, 'humiduty': 14}
Published data successfully: %s {'soil moisture': 56, 'temperature': 89, 'humiduty': 82}
Published data successfully: %s {'soil moisture': 100, 'temperature': -12, 'humiduty': 61}
Published data successfully: %s {'soil moisture': 82, 'temperature': 63, 'humiduty': 41}
Published data successfully: %s {'soil moisture': 30, 'temperature': 53, 'humiduty': 84}
Published data successfully: %s {'soil moisture': 42, 'temperature': 83, 'humiduty': 71}
Published data successfully: %s {'soil moisture': 80, 'temperature': 107, 'humiduty': 38}
Published data successfully: %s {'soil moisture': 64, 'temperature': 14, 'humiduty': 73}
Published data successfully: %s {'soil moisture': 95, 'temperature': 0, 'humiduty': 100}
Published data successfully: %s {'soil moisture': 67, 'temperature': 124, 'humiduty': 21}
Published data successfully: %s ('soil moisture': 51, 'temperature': 109, 'humiduty': 5)
Published data successfully: %s {'soil moisture': 25, 'temperature': 35, 'humiduty': 58}
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