

Project Development

Date	24 oct 2022
Team ID	PNT2022TMID21372
Project Name	Iot Based Safety For Child Safety Monitoring & Notification
Sprint No	Sprint 1

Python Script

```
import time
import random
#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"phsvnq",
    "type":"CS1",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
}
client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])
def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)
while True:
```


Out area:

The image shows a Windows desktop with two open Python 3.7.2 Shell windows. The left window contains the source code for a custom MQTT client, and the right window shows the output of the script.

Left Window (ibmiotf.py - C:\Users\Lenovo\Downloads\Iotdevice.py (3.7.2))

```
File Edit Format Run Options Window Help

#import ibmiotf.application
import ibmiotf.device
import sys

config={
    "org":"phsvng",
    "type":"CSI",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
}

client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])

def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)

while True:
    name= "Childtracker"

    #in area
    #latitude= 9.8796
    #longitude= 78.1010

    #out area
    #latitude= 9.95143
    #longitude= 78.1158

    data={'name': name, 'lat':latitude, 'lon':longitude}
    pub(data)
    client.commandCallback= myCommandCallback
    time.sleep(2)
client.disconnect()
```

Right Window (Python 3.7.2 Shell*)

```
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Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 22:20:52) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Lenovo\Downloads\Iotdevice.py =====
Published data Successfully: %s2022-11-17 23:39:46,040 ibmiotf.device.client
INFO Connected successfully: d:phsvng:CSI:1234
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
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78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
78.1158}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
78.1158}
```

Ln: 34 Col: 4

Ln: 5 Col: 4