Project Development

Date	24 October 2022
Team ID	PNT2022TMID21372
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and 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:
  name= "Childtracker"
```

```
#in area
#latitude= 9.8796
#longitude= 78.0810

#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()
```

In area:

```
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                                                                                                                  File Edit Shell Debug Options Window Help
                                                                                                                 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.
#import ibmiotf.application
import ibmiotf.device
import sys
                                                                                                                 config={
    "org":"phsvnq",
    "type":"cS1",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
                                                                                                                  Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
client= ibmiotf.device.Client (config)
client.connect()
                                                                                                                   Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
                                                                                                                   Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
                                                                                                                  8.081}
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
                                                                                                                  Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
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:
                                                                                                                  8.081)
Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
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     le True:
name= "Childtracker"
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Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.8796, 'lon': 7
8.081}
     #in area
latitude= 9.8796
     longitude= 78.0810
     #out area
#latitude= 9.95143
#longitude= 78.1158
     data={'name': name, 'lat':latitude,'lon':longitude}
data={'name': na
pub(data)
client.commandCa
time.sleep(2)
client.disconnect()
                    mandCallback = myCommandCallback
                                                                                                     Ln: 30 Col: 4
                                                                                                                                                                                                                     Ln: 16 Col: 0
```

Out area:

```
*Python 3.7.2 Shell*
 A lotdevice.py - C:\Users\Lenovo\Downloads\lotdevice.py (3.7.2)
                                                                                                                                       ×
                                                                                                                                                             File Edit Shell Debug Options Window Help
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.
 File Edit Format Run Options Window Help
#import ibmiotf.application
import ibmiotf.device
import sys
                                                                                                                                                            config={
    "org":"phsvnq",
    "type":"CS1",
    "id":"1234",
    "auth-method":"token",
    "auth-token":"123456789"
                                                                                                                                                             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)
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    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:
                                                                                                                                                              /8.1158)
Published data Successfully: %s ('name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158)
                                                                                                                                                              Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon':
                                                                                                                                                              (0.1158) Published data Successfully: %s {'name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158}
                                                                                                                                                             /8.1156)
Published data Successfully: %s ('name': 'Childtracker', 'lat': 9.95143, 'lon': 78.1158)
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  hile
       le True:
name= "Childtracker"
       #latitude= 9.8796
#longitude= 78.0810
      fout area
latitude= 9.95143
longitude= 78.1158
       data={'name': name, 'lat':latitude,'lon':longitude}
       pub(data)
client.commandCallback = myCommandCallback
 time.sleep(2)
client.disconnect()
                                                                                                                                                                                                                                                                                                        Ln: 5 Col: 0
```