

DEVELOPING PYTHON SCRIPT

Date	29 OCTOBER 2022
Team ID	PNT2022TMID45390
Project Name	Project - IOT based safety gadget for child safety monitoring and notification

CODE :

LOCATION DATA:

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

myConfig={
"identity": (
"orgId": "gagtey",
"typeId": "GPS",
"deviceId":"12345"},
"auth": {
"token": "12345678"
}}

def myCommandCallback (cmd):

print ("Message received from IBM IoT Platform: %s" %
cmd.data['command']) m-cmd.data['command']

client= wiotp.sdk.device.DeviceClient (config=myConfig,
logHandlers=None)

client.connect()

def pub (data):

client.publishEvent (eventId="status", msgFormat="json",
```

```
data=myData, qos=0, print("Published data Successfully: %s",
myData)
while True:

myData={'name': 'Train1', 'lat': 17.6387448, 'lon':
78.4754336)

pub (myData)

time.sleep (3)

#myData({'name': 'Train2', 'lat': 17.6387448, 'lon':
78.4754336)

#pub (myData)

#time.sleep (3)

myData={'name': 'Train1', 'lat': 17.6341908, 'lon':
78.4744722)

pub (myData)

time.sleep(3)

myData={'name': 'Train1', 'lat': 17.6340889, lon':
78.4745052) pub (myData)

time.sleep(3)

myData={'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259)

pub (myData)

time.sleep (3)

myData={'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726)

pub (myData)

time.sleep (3)

myData={'name': 'Train1', 'lat': 17.6132382, 'lon':
78.4707318)

pub (myData)
```

```
time.sleep (3)
client.commandCallback = myCommandCallback

client.disconnect()
```

QR SCANNER CODE:

```
Import cv2

import numpy as np

import time

Import pyzbar.pyzbar as pyzbar

from ibmcloudant.cloudant_v1 import CloudantV1 from
ibmcloudant import CouchDbSessionAuthenticator from
ibm_cloud_sdk_core.authenticators import
BasicAuthenticator

authenticator= BasicAuthenticator ('apikey-v2-
16u3crmdpkgghxhxfdikvpssoh5fwezrmuup5fv5g3ubz'
, 'b0ab119f45d3e6255eabb978

service Cloudant V1 (authenticator-authenticator)

service.set_service_url('https://apikey-v2-
16u3crmdpkgghxhxfdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119
f45d3e6255eabb978e7e2f0

cap= cv2.VideoCapture (0)

font cv2.FONT_HERSHEY_PLAIN

while True:

frame cap.read()

decodedobjects pyzbar.decode (frame)

for obj in decodedObjects:

#print ("Data", obj.data)

a=obj.data.decode('UTF-8')
```

```
cv2.putText (frame, "Ticket", (50, 50), font, 2,  
(255, 0, 0), 3)
```

```
#print (a)
```

```
try: response = service.get_document (  
db='booking, doc_id = a
```

```
).get_result()
```

```
print (response) time.sleep(5)
```

```
except Exception as e:
```

```
print ("Not a Valid Ticket")
```

```
time.sleep (5)
```

```
cv2.imshow("Frame", frame) if
```

```
cv2.waitKey(1) & 0xFF==ord('q'):
```

```
break
```

```
cap.release()
```

```
cv2.destroyAllWindows ()
```

```
client.disconnect(
```