DEVELOPING PYTHON SCRIPT

Date	09 NOVEMBER 2022
Team ID	PNT2022TMID04693
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': 'Trainl', 'lat': 17.6340889, lon':

78.4745052) pub (myData)

time.sleep(3)

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

pub (myData)

time.sleep (3)

myData={'name': 'Trainl', '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:

```python
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-

16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz'

, 'b0ab119f45d3e6255eabb978

service Cloudant V1

(authenticator-authenticator)

service.set_service_url('https://apikey-v2-

16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab11

9 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')
```

```python
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(
```