

DEVELOPING PYTHON SCRIPT

Date	09 NOVEMBER 2022
Team ID	PNT2022TMID19513
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': 'TrainI', 'lat': 17.6340889, lon': 78.4745052)
pub (myData)
time.sleep(3)
myData={'name': 'TrainI', 'lat': 17.6248626, 'lon': 78.4720259)
pub (myData)
time.sleep (3)
myData={'name': 'TrainI', '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-

16u3crmdpkghxefdikvpssoh5fwezrmuup5fv5g3ubz',

'b0ab119f45d3e6255eabb978

service Cloudant V1 (authenticator-authenticator)

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

16u3crmdpkghxefdikvpssoh5fwezrmuup5fv5g3ubz: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(
```