DEVELOP THE PYTHON SCRIPT-DEVELOP THE PYTHON SCRIPT

Date	*19 OCT 2022*
Team ID	*PNT2022TMID23626*
Project Name	*SMART SOLUTION FOR RAILWAY SYSTEM*

```
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("publishe 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=mycommanCallbak
client.disconnect()


import cv2
import numpy as np
import time
import pyzbar.pyzbar as puzbar
from ibmcloudant.cloudant_v1 import cloudantv1
from ibmcloudant import couchDbsessionAuthenticator
from ibm_cloud_sdk_core.Authenticators import BasicAuhtenticator

authenticator=BasicAuthenticator('apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz','b0ab119f45d3e6255eabb978)
service =cloudantv1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-
16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119f45d3e6255eabb978

cap = cv2.videoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN

while True:
    _, frame = cap.read(0)
    decodeObjects = pyzbar.decode(frame)
    for obj in decodeObjects:
        #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:
            responce = service.get_document (
                db='booking',
                doc_id = a
                ).get_result()
            print(response)
            time.sleep(5)
        except Exception as e:
            print("NotvalidTicket")
            time.sleep(5)

    cap.imshow("Frame", frame)
    if cv2.waitKey{1} & 0XFF == ord('q'):
      break
```

```
cap.release()
cv2.destroyAllWindows()
client.disconnect()
```