DEVELOPED PYTHON SCRIPT

Date	24 September 2022	
Team ID	PNT2022TMID41917	
Title	SMART SOLUTION FOR RAILWAYS	

IBM:

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
     "orgId": "w8dpyu",
     "typeId": "device",
     "deviceId": "123456"
     },
     "auth": {
       "token": "1234567890"
}
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,onPublish=None)
  print("Published data Successfully: %s", myData)
while True:
  myData={'name':'Train1','lat':10.8160024,'lon':78.6066253}
  pub(myData)
  time.sleep(2)
  #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(2)
  myData={'name':'Train1','lat':17.6340889,'lon':78.4745052}
  pub(myData)
```

```
time.sleep(2)
  myData={'name':'Train1','lat':17.6248626,'lon':78.4720259}
  pub(myData)
  time.sleep(2)
  myData={'name':'Train1','lat':17.6188577,'lon':78.4698726}
  pub(myData)
  time.sleep(2)
  myData={'name':'Train1','lat':17.6132382,'lon':78.4707318}
  pub(myData)
  time.sleep(2)
  client.command Callback = my Command Callback \\
client.disconnect()
#dc0(g18y?U0aAG66wS
QR CODE:
import cv2
import numpy as np
import time
import pyzbar.pyzbar as puzbar
from ibmcloudant_v1 import cloudant_v1
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 ("Not valid Ticket")
```

time.sleep(5)

```
CV2.imshow("Frame", frame)
if cv2.waitKey[1] & 0XFF == ord('q'):
    break

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