Python Script

Problem Solution: Smart railway solutions

1) For QR Scanner:

```
import cv2
import numpy as np
import time
import puybar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmCloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticatora import BasicAuthenticator
authenticator =
BasicAuthenticator('apikey=v2=16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz','b0ab119f45d3
e6255eabb978e7e2f0')
service = CloudantV1(authenticator=authenticator)
service.set_service_url('https://apikey=v2=16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0a
b119f45d3e6255eabb978e7e2f0')
cap = cv2.VideoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN
while True:
  _,frame = cap.read()
  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()
2) CODE:
       import wiotp.ndk.device
       import time
       import random
```

myonfig={
"identify":{

},

}

"auth":{

"origid":"gagtey",
"typeId":"GPS",
"deviced":"12345"

"token":"12345678"

```
def myCommandCallback(cmd):
 print("Message recived from IBM Platform: is"% cmd.data{'command'})
 m=cmd.data{'command'}
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandelers=None)
client.connect()
def pub(data):
 client.publishEvent(eventId="status", nsgFormat="json", data=myData, qos=0,
 print("Published data Sucessfully: is",myData)
while True:
 ={'name':'Train1','lat':17.6387448,'lon':78.47543361}
 pub(myData)
 time.sleep(3)
 #myData={'name':'Train2','lat':17.6387448,'lon':78.47554336}
 #pub(myData)
 #time.sleep(3)
 myData={'name':'Train1','lat':17.06341908,'lon': 78.04744722}
 pub(myData)
 time.sleep(3)
 myData={'name':'Train1','lat':17.06341908,'lon':78.04744722}
 pub(myData)
 time.sleep(3)
  myData={'name':'Train1','lat':17.06341908,'lon': 78.04744722}
 pub(myData)
 time.sleep(3)
 myData={'name':'Train1','lat':17.06341908,'lon':78.04744722}
 pub(myData)
 time.sleep(3)
 myData={'name':'Train1','lat':17.06341908,'lon':78.04744722}
 pub(myData)
 time.sleep(3)
 client.CommandCallback = myCommandCallback
 client.disconnect()
```