**DEVELOP THE PYTHON SCRIPT-DEVELOP THE PYTHON SCRIPT**

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**Team ID: PNT2022TMID12461**

**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 ("Not valid Ticket") time.sleep(5)

cap.imshow("Frame", frame)

if cv2.waitKey{1} & 0XFF == ord('q'): break

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