PYTHON CODE FOR WEB APPLICATION

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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-267fe83f32ec443b804f3c76d688d2e3', 'b1456cbe3c712c2d555623fe092c074478521354')

service = CloudantV1(authenticator=authenticator)

service.set\_service\_url('https://4f470103-dd2c-4f50-94e8-3439395a7935-bluemix.cloudant.com')

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()

PYTHON CODE FOR TRAIN LOCATION

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

"orgId": "ojhlri",

"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, onPublish=None)

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': '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 = myCommandCallback

client.disconnect ()