TEAM ID:PNT2022TMID33663

PROJECT NAME: IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE

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DEVELOPING PYTHON SCRIPT

# LOCATION DATA:

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("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': 'Trainl', 'lat': 17.6340889, lon': 78.4745052) pub (myData)

time.sleep(3)

myData={'name': 'Trainl', 'lat': 17.6248626, 'lon': 78.4720259) pub (myData)

time.sleep (3)

myData={'name': 'Trainl', '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()

# QR SCANNER CODE:

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-v2- 16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz', 'b0ab119f45d3e6255eabb978

service Cloudant V1 (authenticator-authenticator) service.set\_service\_url('https://apikey-v2-

16u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab119 f45d3e6255eabb978e7e2f0

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()