## V.S.B ENGINEERING COLLEGE ELECTRONICS AND COMMUNICATION ENGINEERING

Team ID	PNT2022TMID33612
Project Name	IOT Based Smart Crop Protection System
	For Agriculture

## **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
```

## **QR SCANNER CODE:**

client.disconnect()

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
v216u3crmdpkghhxefdikvpssoh5fwezrmuup5fv5g3ubz:b0ab
119 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()
```