

Development Phase Sprint 3

Source Code has been deployed for the application:

QR SCAN CODE:

```
from http import client
import cv2
import pyzbar
from pyzbar.pyzbar import decode
import time

from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-
geQfaxlw_D2ghKgN2jjxMsM99iOzQd8yuULxxA4pRH7B', 'daf3c00c2cc182af425a5691a07f7b93')
service = CloudantV1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-
geQfaxlw_D2ghKgN2jjxMsM99iOzQd8yuULxxA4pRH7B:daf3c00c2cc182af425a5691a07f7b93@9323
93aa-9f82-4144-9251-2c519fb30962-bluemix.cloudantnosqldb.appdomain.cloud')

cap= cv2.VideoCapture(0)
font = cv2.FONT_HERSHEY_PLAIN

while True:
    _, frame = cap.read()
    decodedObjects = 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='IBM_railways',
        doc_id = a
    ).get_result()
    print (response)
    time.sleep(5)
except Exception as e:
    print(a)
    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()

```

LOCATION CODE

```

import wiotp.sdk.device

import time

import random

```

```

myConfig = {
    "identity": {
        "orgId": "g20wc1",

```

```
"typeId": "h2",  
"deviceId": "h2"  
},  
"auth": {  
    "token": "12345678"  
}  
}
```

```
def myCommandCallback(cmd):  
    print("The Message received from IBM IoT Platform is : %s" % cmd.data['command'])  
    m=cmd.data['command']
```

```
def pub(data):  
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)  
    print("Data is published Successfully:%s",myData)
```

```
client = wiotp.sdk.device.DeviceClient(config=myConfig)  
client.connect()
```

```
while True:  
    myData={'name':'Train1','lat':10.184363,'lon': 77.922702}  
    pub(myData)  
    time.sleep(3)  
    myData={'name':'Train1','lat':10.213225,'lon': 77.898765}  
    pub(myData)  
    time.sleep(3)  
    myData={'name':'Train1','lat':10.285035,'lon': 77.921569}  
    pub(myData)  
    time.sleep(3)  
    myData={'name':'Train1','lat':10.343369,'lon': 77.958056}  
    pub(myData)
```

```
time.sleep(3)
```

```
myData={'name':'Train1','lat':10.356829,'lon': 77.980861}
```

```
pub(myData)
```

```
time.sleep(3)
```

```
client.commandCallback = myCommandCallback
```

```
client.disconnect()
```