SPRINT-4

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Project Name	IOT based Smart Solutions for Railways

PROCEDURE:

Step1: Develop a python script to scan the QR code
Step2: Connect the python code to IBM Cloudant using the credentials
Step3: Run the program

PYTHON SCRIPT TO SCAN QR CODE:

```
import cv2

import numpy as np

import time

import pyzbar.pyzbar as pyzbar

from pyzbar.pyzbar import decode

from ibmcloudant.cloudant_v1 import CloudantV1

from ibmcloudant import CouchDbSessionAuthenticator

from ibm_cloud_sdk_core.authenticators import BasicAuthenticator



authenticator = BasicAuthenticator('apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi',
'af693938842290ec2c254461754447b5')

service = CloudantV1(authenticator=authenticator)



service.set_service_url('https://apikey-v2-
125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi:af693938842290ec2c254461754447b5@82d87499-
4395-4f46-a190-6a186bee5051-bluemix.cloudantnosqldb.appdomain.cloud')



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 TICKER")
            time.sleep(5)

    cv2.imshow("Frame",frame)
    if cv2.waitKey(1) & 0xFF ==ord('q'):
        break

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

PYTHON CODE OUTPUT: