SPRINT - 3

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Project Name	Project –Smart Solutions for Railways

PROCEDURE:

- Step 1: Develop a python script to scan the QR code
- Step 2: Connect the python code to IBM cloudant using the credentials
- Step 3: 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@82d874994395-
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:



QR CODE DETAILS:

DATA STORED IN CLOUDANT:

