SPRINT-3

Date	19 NOVEMBER 2022
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Project Name	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@82d8749943954f46-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)
                              cv2.putText(frame, "Ticket", (50,
a=obj.data.decode('UTF-8')
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:

```
| Note the content of the content of
```

DATA STORED IN CLOUDANT:

