# **SPRINT-3**

Date	19 NOVEMBER 2022
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@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()
```

# **QR CODE DETAILS:**

### **DATA STORED IN CLOUDANT:**

```
booking > 2022-11-15,11:34:34
                                                                                                                                   {}JSON I
~
           Save Changes Cancel
                                                                                                           O Upload Attachment C Clone Document ☐ Delete
        1-(
              " id": "2022-11-15,11:34:34",
             "_rev": "1-dc28604ce92b95da395e5e9a40018fef",
4...
             "Name": "SUDHA",
             "Age": 20,
             "Mobile": 8976543212,
             "boarding": "Coimbatore",
 1
             "destination": "Chennai",
             "Seat": "2",
0
        10
             "Train selection": "Blue mountain"
        11 }
H
EQ.
Log Out
```