# **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@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()
```

# **PYTHON CODE OUTPUT:**

client.disconnect()



# **QR CODE DETAILS:**

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

```
booking > 2022-11-15,11:34:34
                                                                                                                                   {}JSON II
~
           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",
             "destination": "Chennai",
             "Seat": "2",
0
        10
             "Train selection": "Blue mountain"
        11 }
m
EQ.
Log Out
```