#### SPRINT-3

Date	19 NOVEMBER 2022	
Team ID	PNT2022TMID41339	
Project Name	SMART SOLUTIONS FOR RAILWAYS	

#### PROCEDURE:

Step 1: Develop a python script to scan the QR code

Step2: Connect the python code to IBM Cloudant using the credentials

Step3: Bun 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-v2-125rwcp4lfi6zz2ly1cq0kakyjn98du2ysgc72h53lzl', 'af693938842290ec2c254461754447b5') service =

CloudantV1(authenticator=authenticator)

service.set\_service\_uri(https://apikey-v2-125rwcp4ifi6zz2ty1cq0kakyjn98du2ysgc72h53lzi:af693938842290ec2c254461754447b5@82d874994395-4f46-a190-6a186bee5051-bluemix.cloudantnosqidb.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")

```
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

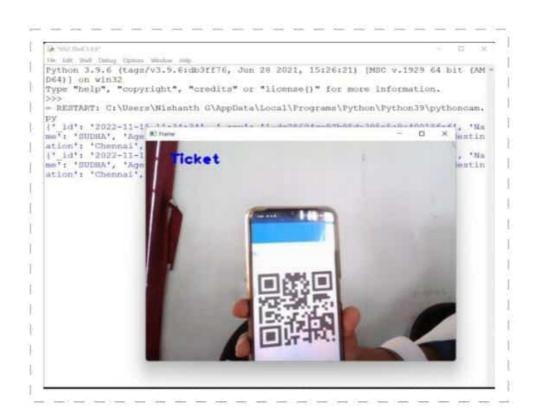
cv2.waitKey(1) & 0xFF ==ord('q'):

break
```

## PYTHON CODE OUTPUT:

client.disconnect()

cap.release() cv2.destroyAllWindows()



# QR CODE DETAILS:

```
In left Seed Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AM D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

>>>
= RESTART: C:\Users\Nishanth G\AppData\Local\Programm\Python\Python39\pythoncam.
py
1' id': '2022-11-15,11:34:34', 'rev': '1-dc28604ce92b95da395e5e9a40018fef', 'Na
me': 'SUBHA', 'Age': 20, 'Mobile': 8976543212, 'boarding': 'Coimbatore', 'destin
ation': 'Chennai', 'Seat': '2', 'Train selection': 'Blue mountain')
```

### DATA STORED IN CLOUDANT:

```
booking > 2022-11-15,11:34:34
                                                                                                                                  {} drace [B]
Save Changes Cancel
                                                                                                          Q Upload Attachment C Clone Document 🖹 Delete
              "_Lift: "2022-31-15,11:34:34",
#
             "_rev": "1-dc28884ce02b95ca395a5e0a40818fef",
             "Name": "$10HA",
             "Age": 28.
1
             "Numile": SyTesasziz,
             "boarding": "Coimbatore".
2
             "destination" | "Chennal",
             "Seatt" "I".
0
        2.0
             "Yrain selection": "Blue wountain"
        11 3
10
```