

## SPRINT-3

Date	19 NOVEMBER 2022
Team ID	PNT2022TMID47138
Project Name	Project – 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

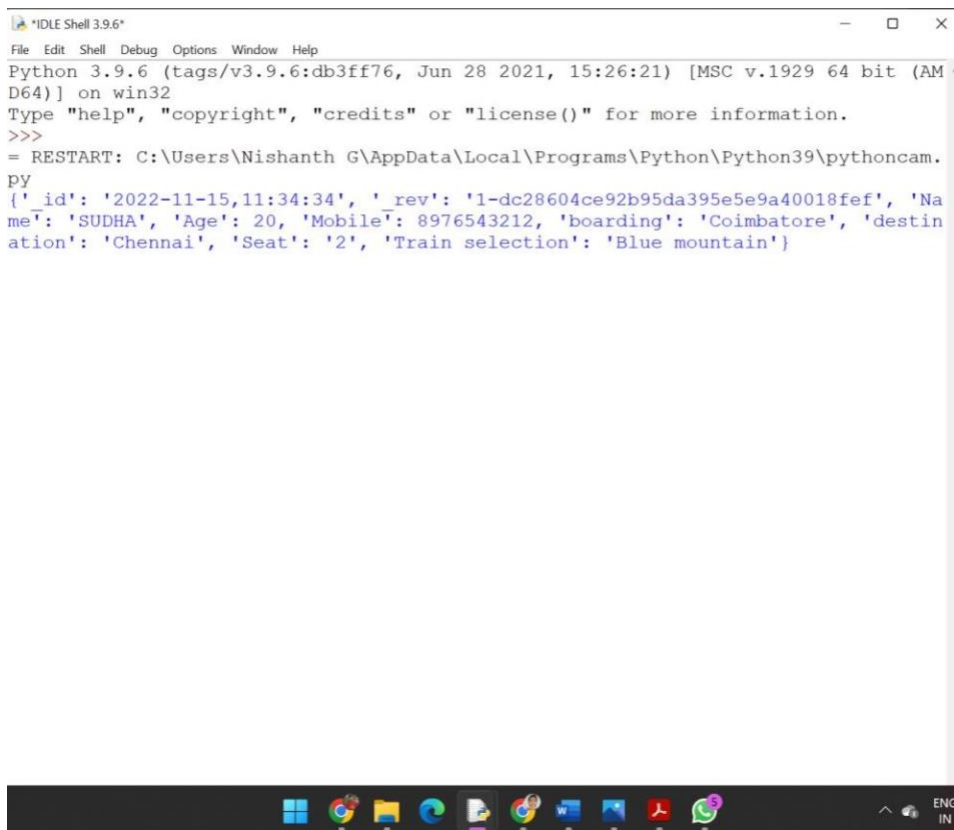

cap.release() cv2.destroyAllWindows()

client.disconnect()
```

**PYTHON CODE OUTPUT:**



## QR CODE DETAILS:



## DATA STORED IN CLOUDANT:

IBM - Project-329-11Application DetailsService Details - IBICloudant DashboardNode-RED : node-Node-RED Dashboard

82d87499-4395-4f46-a190-6a186bee5051-bluemix.cloudant.com/dashboard.html#database/booking/2022-11-15%2C11%3A34%3A34

booking > 2022-11-15,11:34:34

{ }JSON

Save ChangesCancel

Upload AttachmentClone DocumentDelete

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```
"_id": "2022-11-15,11:34:34",
"_rev": "1-dc28604ce92b95da395e5e9a40018fef",
"Name": "SUDHA",
"Age": 20,
"Mobile": 8976543212,
"boarding": "Coimbatore",
"destination": "Chennai",
"Seat": "2",
"Train selection": "Blue mountain"
```

Log Out

Windows Taskbar

System Tray