

### **SPRINT-3**

|                     |  |
|---------------------|--|
| <b>Date</b>         | 15 NOVEMBER 2022                       |
| <b>Team ID</b>      | PNT2022TMID37898                       |
| <b>Project Name</b> | 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 openCv2

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

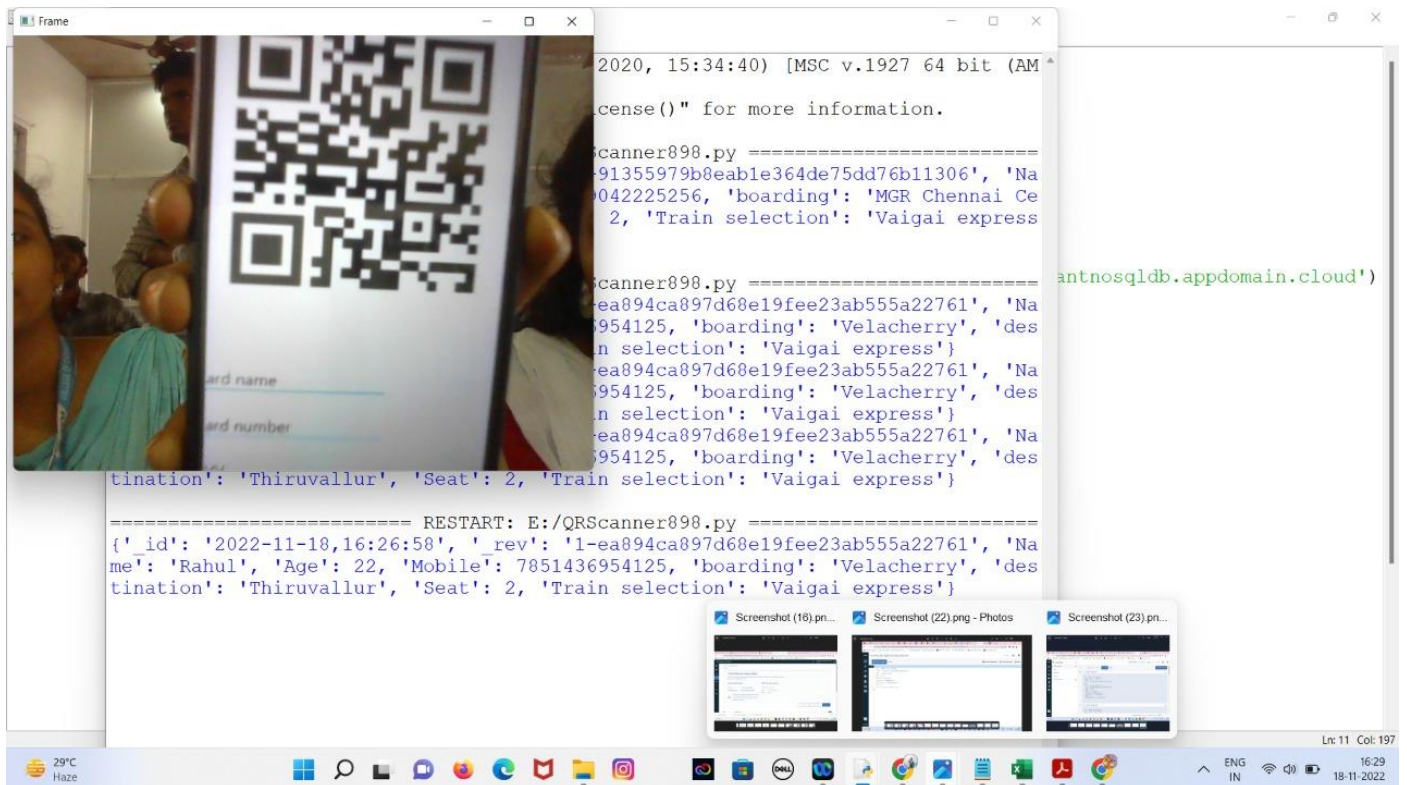
authenticator = BasicAuthenticator(
) service =

CloudantV1(authenticator=authenticator)

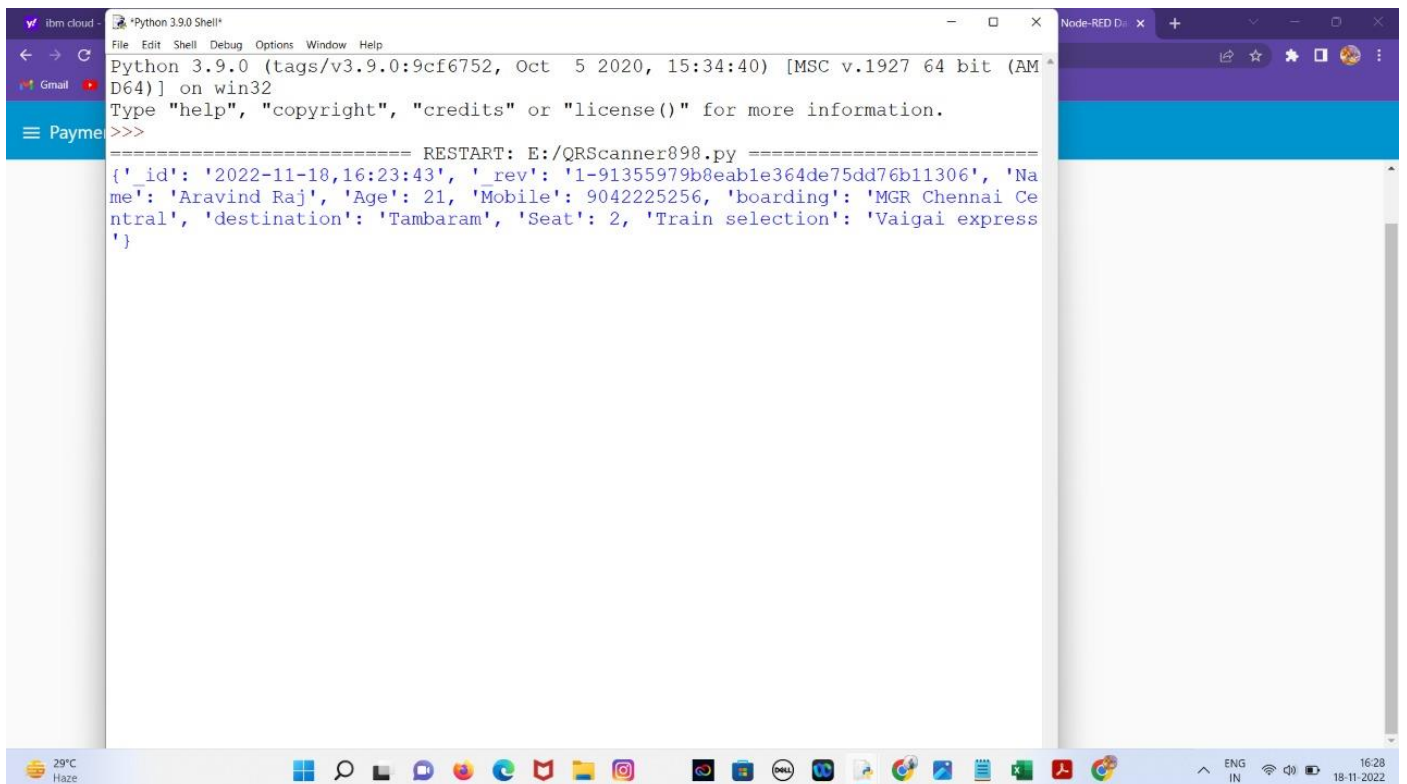
service.set_service_url('https://apikey-v2-
125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi:af693938842290ec2c254461754447b5@82d87
4994395-4f46-a190-6a186bee5051-bluemix.cloudantnosqldb.appdomain.cloud')
```

```
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:

Service Details - IBM Cloud x Cloudant Dashboard - database/ x +

031d65ea-9d17-4c71-bca3-015e317a17c4-bluemix.cloudant.com/dashboard.html#database/booking/\_all\_docs

Gmail YouTube

booking

Document ID Options {} JSON

All Documents +

Query

Permissions

Changes

Design Documents +

Log Out

Table Metadata {} JSON Create Document

|                          | Age | Mobile        | Name         | Seat | Train selection |
|--------------------------|-----|---------------|--------------|------|-----------------|
| <input type="checkbox"/> | 21  | 9042225256    | Aravind Raj  | 2    | Vaigai express  |
| <input type="checkbox"/> | 22  | 7851436954125 | Rahul        | 2    | Vaigai express  |
| <input type="checkbox"/> | 52  | 65468906457   | Dhanalakshmi | 1    | MAQ Chennai Exp |
| <input type="checkbox"/> | 20  | 9225674345    | yuvaree      | 2    | MAQ Chennai Exp |
| <input type="checkbox"/> | 24  | 5425046735    | Sree         | 2    | MAQ Chennai Exp |
| <input type="checkbox"/> | 10  | 85654         | Aswin        | 2    | Vaigai express  |

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Service Details - IBM Cloud x Cloudant Dashboard - database/ x +

031d65ea-9d17-4c71-bca3-015e317a17c4-bluemix.cloudant.com/dashboard.html#database/booking/\_all\_docs

Gmail YouTube

booking

Document ID Options {} JSON

All Documents +

Query

Permissions

Changes

Design Documents +

Log Out

Table Metadata {} JSON Create Document

id "2022-11-18,16:23:43"

```
{
  "id": "2022-11-18,16:23:43",
  "key": "2022-11-18,16:23:43",
  "value": {
    "rev": "1-91355979b8eab1e364de75dd76b11306"
  },
  "doc": {
    "_id": "2022-11-18,16:23:43",
    "_rev": "1-91355979b8eab1e364de75dd76b11306",
    "Name": "Aravind Raj",
    "Age": 21,
    "Mobile": 9042225256,
    "boarding": "MGR Chennai Central",
    "destination": "Tambaram",
    "Seat": 2,
    "Train selection": "Vaigai express"
  }
}
```

id "2022-11-18,16:26:58"

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