SPRINT-3

Date	19 NOVEMBER 2022
Team ID	PNT2022YMID38248
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

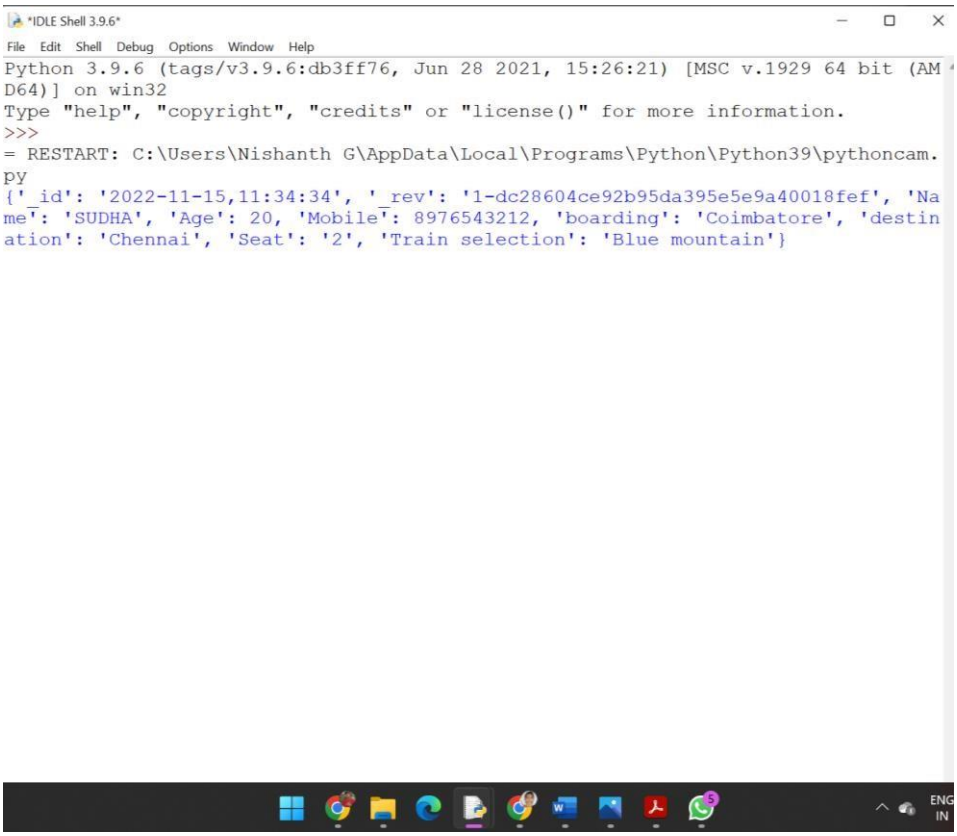
PYTHON SCRIPT TO SCAN QR CODE:

```
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 imporBasicAuthenticator


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')
```

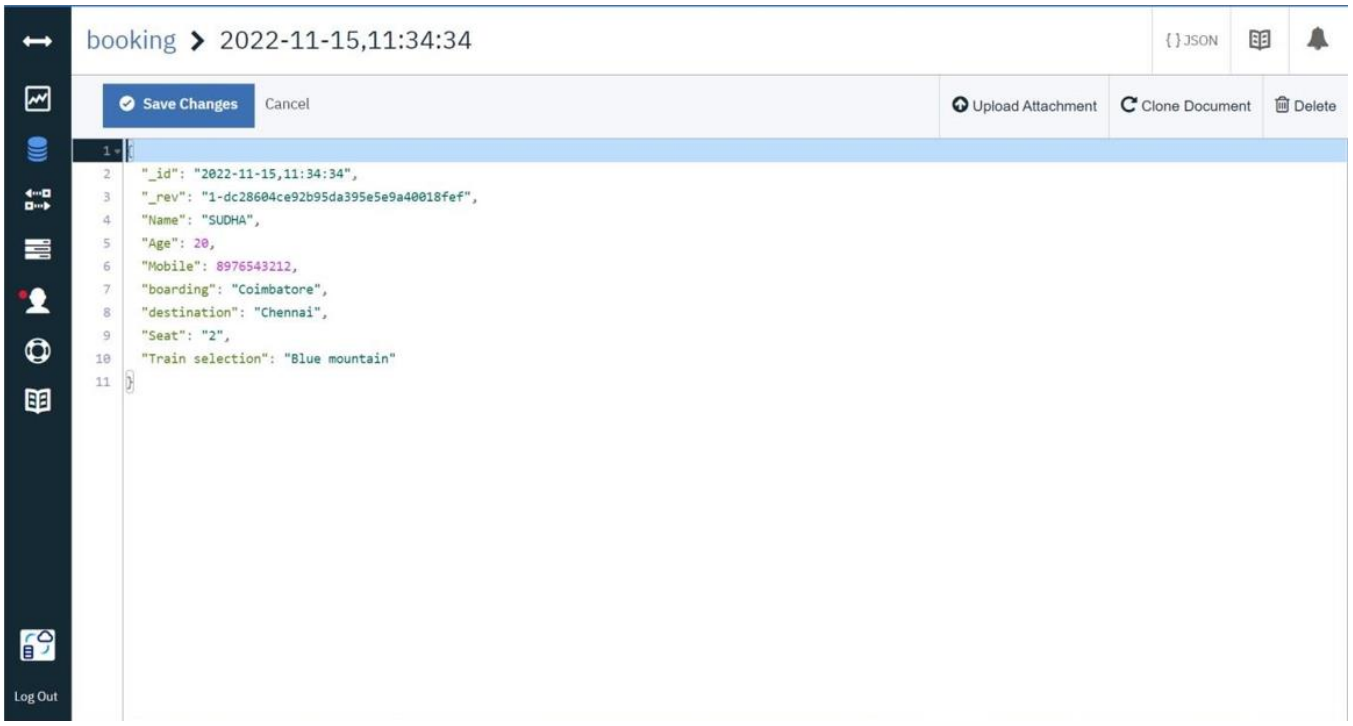
```
cap= cv2.VideoCapture(0) font =
cv2.FONT_HERSHEY_PLAIN while
True:

  _, 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:


booking > 2022-11-15,11:34:34
{ } JSON
Save Changes
Cancel
Upload Attachment
Clone Document
Delete
{
"_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"
}
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