SPRINT-3

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID43868
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS

PROCEDURE:

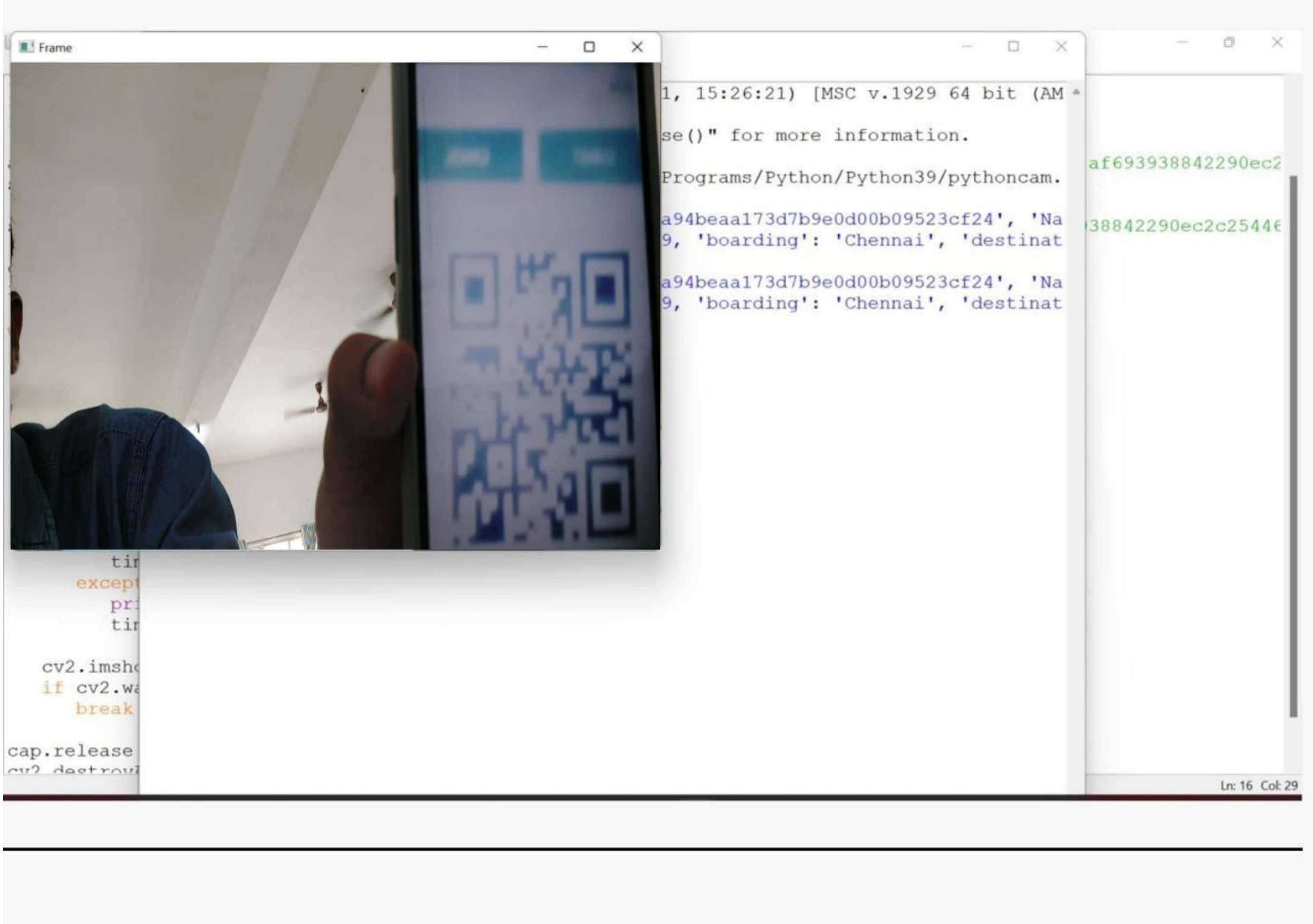
Step1: Develop a python script to scan the QR code
Step2: Connect the python code to IBM Cloudant using the credentials
Step3: Run the program

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:

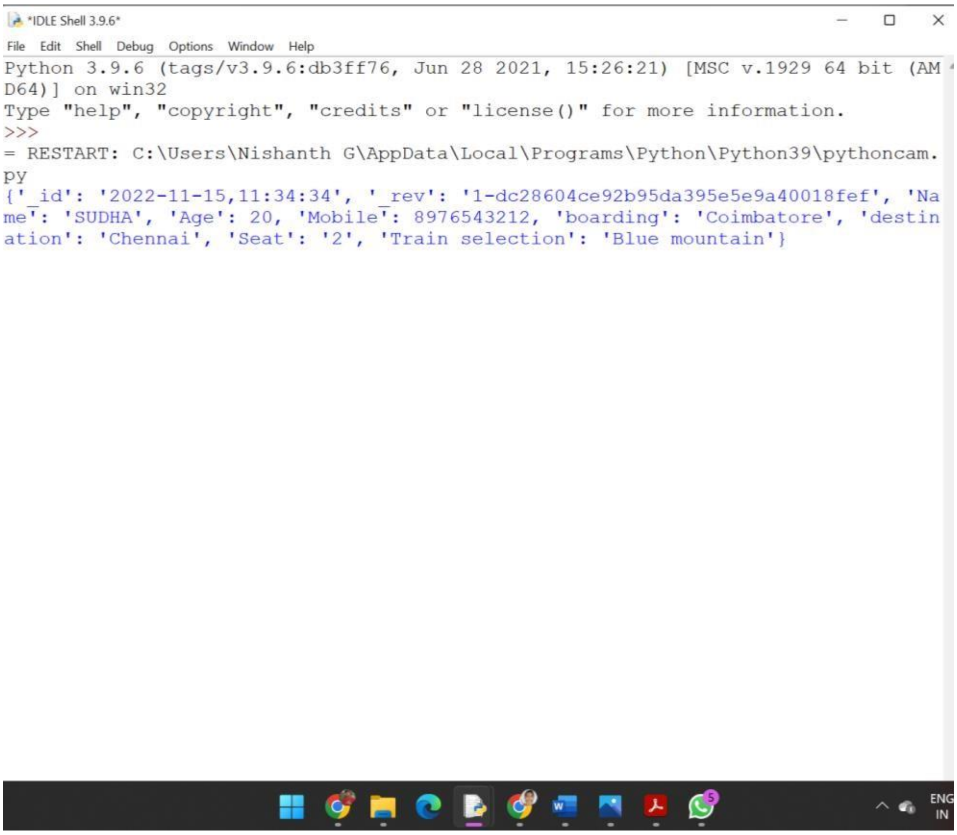


```
1, 15:26:21) [MSC v.1929 64 bit (AM

se()" for more information.

Programs/Python/Python39/pythoncam.

a94beaa173d7b9e0d00b09523cf24', 'Na
9, 'boarding': 'Chennai', 'destinat

a94beaa173d7b9e0d00b09523cf24', 'Na
9, 'boarding': 'Chennai', 'destinat
```

```
af693938842290ec2

38842290ec2c2544
```

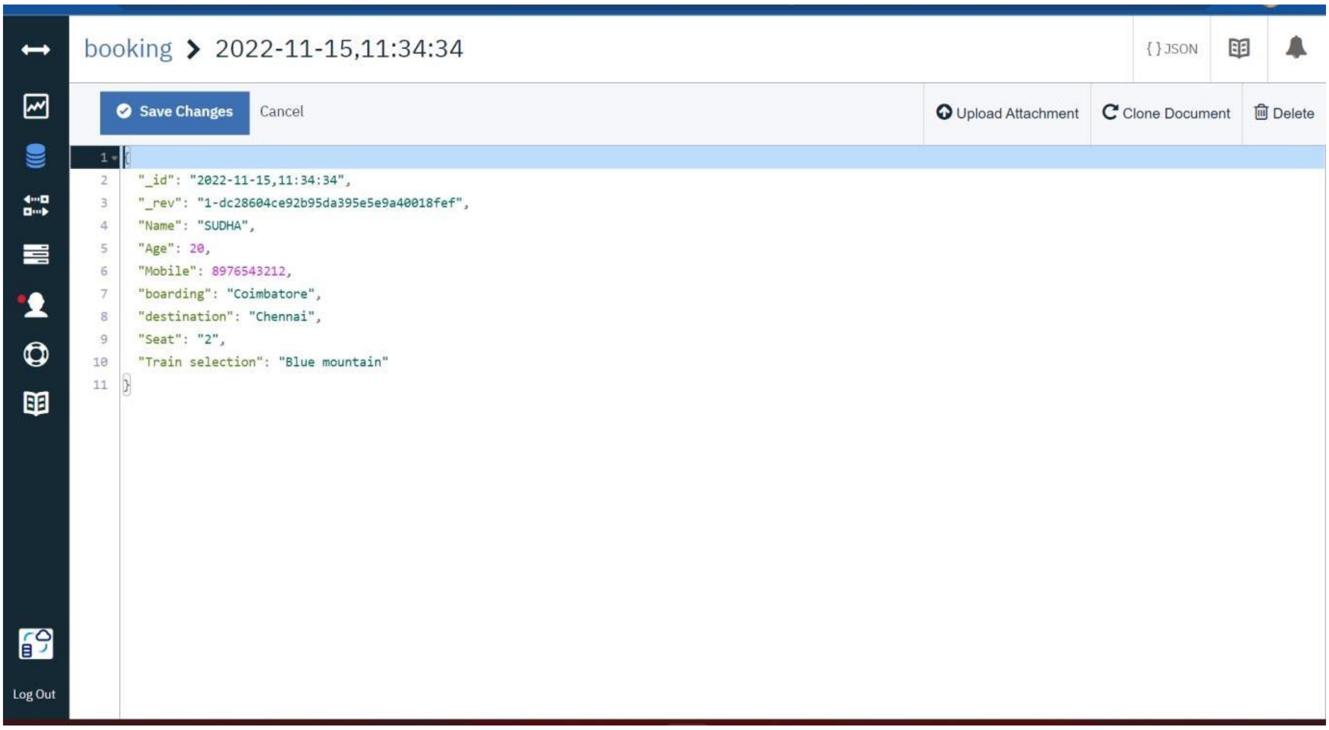
```
        tir
     except
        pri
        tir

   cv2.imsh
   if cv2.wa
      break

cap.release
```

QR CODE DETAILS:



```
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\Programs\Python\Python39\pythoncam.
py
{'_id': '2022-11-15,11:34:34', '_rev': '1-dc28604ce92b95da395e5e9a40018fef', 'Na
me': 'SUDHA', 'Age': 20, 'Mobile': 8976543212, 'boarding': 'Coimbatore', 'destin
ation': 'Chennai', 'Seat': '2', 'Train selection': 'Blue mountain'}
```

DATA STORED IN CLOUDANT:



```
{
  "_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"
}
```