SPRINT-3

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID37886
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

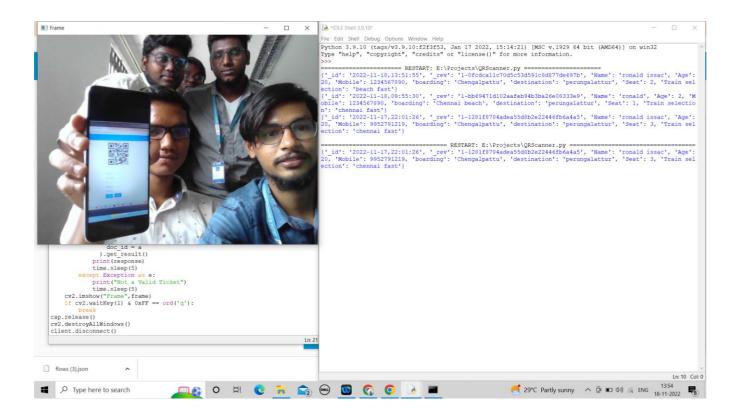
PYTHON SCRIPT TO SCAN QR CODE:

except Exception as e:

```
import cv2
import numpy as np
import time
import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator
authenticator = BasicAuthenticator('apikey-v2-
e379zksq0z7nhqjabgd78o37jq5vtyk7xab8iueumb','b06d564c2d1b9cdfb31fc86b7de1684e')
service=CloudantV1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-
e379zksq0z7nhqjabgd78o37jq5vtyk7xab8iueumb:b06d564c2d1b9cdfb31fc86b7de1684e@0000ea1a-955f-
48ed-aeb9-e6679f14408a-bluemix.cloudantnosgldb.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)
```

print("Not a Valid Ticket")
 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:

