SPRINT - 3

TEAM ID	PNT2022TMID29193
PROJECT NAME	Smart Solutions for Railways

USN-4: As a TTE, I will cross-check the passenger for their tickets by scanning the QR code.

Code:

QRCodeScanner.py

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-v2-2stdiumhdpvimevtz15mlesexkro758a3adfu6gzbd2i',

'cf64a065320a016ee67039aa90958562')

service=CloudantV1 (authenticator=authenticator)

service.set_service_url('https://apikey-v2-

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6ee 67039 aa 90958562 @03b99f47 - 5466 - 4bdd - b1d7 - 0c89004e3180 - b1d7 - b1

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("Valid Ticket")
    #print (a)
    try:
      response = service.get document (db='bookings',doc id =
a).get result()
      print (response)
      time.sleep(5)
    except Exception as e:
      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 ()
```

Output:







