## project Development Phase Delivery of Sprint 3

Date	15 November 2022
Team ID	PNT2022TMID22838
Project Name	Smart solutions for railways

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

 $from\ ibm cloud ant\ import\ Couch Db Session Authenticator$ 

from ibm\_cloud\_sdk\_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator ('apikey-v2-2stdiumhdpvimevtz15mlesexkro758a3adfu6gzbd2i', 'cf64a065320a016ee67039aa90958562')

service=CloudantV1 (authenticator=authenticator)

service.set\_service\_url('https://apikey-v2-2stdiumhdpvimevtz15mlesexkro758a3adfu6gzbd2i:cf64a065320a016ee67039aa90958562@03b99f47-5466-4bdd-b1d7-0c89004e3180-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:**







