PROJECT DEVELOPMENT PHASE - SPRINT 4

Date	15 November 2022	
Team ID	PNT2022TMID08702	
Project Name	Smart Solutions for railways	

SPRINT 4– Ticket Verification

Once the payment is successful, QR Code will be generated. The ticket collector can scan the generated QR Code from the user and verify it.By scanning the QR Code the user details will be displayed.

```
Code the user details will be displayed.
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-k0li2r9edsevyjyqtgzh0j653g1g81j24lfbe7hzz2h',
'71b524ba05a9592d11221ed267338f27')
service = CloudantV1(authenticator=authenticator)
service.set service url('https://apikey-v2-
e1-088e-4c99-960c-9faea5d31cf8-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 FOR QR CODE VERIFICATION:

```
## Smartnikwys.py - CAlbers/ARTHY/OmeDrive/Destrop/BM/CODE/smartnikwys.py (3.9.6)

## Edit format Run Options Window Help

## Import V2

## I
```

QR CODE VERIFICATION AND USER DETAILS STORED IN CLOUD



