

Project Development Phase

Delivery of Sprint - 4

Date	16 November 2022
Team ID	PNT2022TMID30278
Project Name	Smart Solution for Railways

QR Code Scanner Code:

```
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('https://apikey-v2-
1msyk5zilyhxi9xzy6vlni8sdxewwwr333m402hdynud','c9be4dd1bc1fb5473efb66abb1a3129e
')

service = CloudantV1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-
1msyk5zilyhxi9xzy6vlni8sdxewwwr333m402hdynud:c9be4dd1bc1fb5473efb66abb1a3129e
@95a9ab19-b04c-498f-82e9-fd70bc26bd54-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='passengerdetails',
        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;

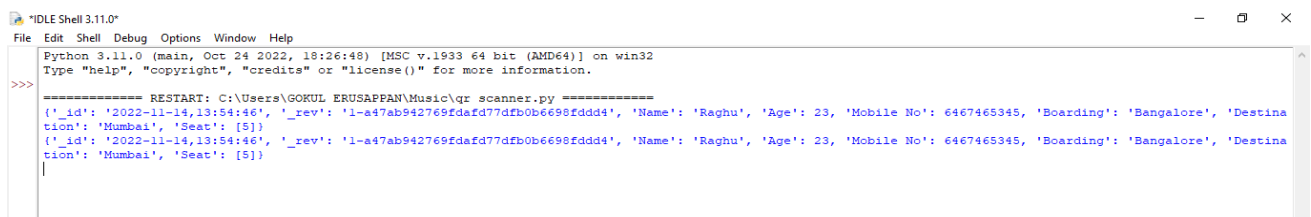
cap.release()

cv2.destroyAllWindows()

client.disconnect()

```

Testcase:



```

Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\GOKUL ERUSAPPAN\Music\qr_scanner.py =====
{'_id': '2022-11-14,13:54:46', '_rev': '1-a47ab942769fdafd77dfb0b6698fddd4', 'Name': 'Raghu', 'Age': 23, 'Mobile No': 6467465345, 'Boarding': 'Bangalore', 'Destination': 'Mumbai', 'Seat': [5]}
{'_id': '2022-11-14,13:54:46', '_rev': '1-a47ab942769fdafd77dfb0b6698fddd4', 'Name': 'Raghu', 'Age': 23, 'Mobile No': 6467465345, 'Boarding': 'Bangalore', 'Destination': 'Mumbai', 'Seat': [5]}
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```