DATE	29/10/2022
TEAM ID	PNT2022TMID11580
PROJECT NAME	Smart Solutions for Railways Using IOT

QR SCANNER

CODE:

```
from http import client

import cv2

import pyzbar

from pyzbar.pyzbar import decode

import time


from ibmcloudant.cloudant_v1 import CloudantV1

from ibmcloudant import CouchDbSessionAuthenticator

from ibm_cloud_sdk_core.authenticators import BasicAuthenticator


authenticator = BasicAuthenticator('apikey-v2-
rsy830cz1zi58n2c6r65zltdnil5hsvuehtcomsrbbe',
'8c8217f7524c8e496de81adc45fd866d')

service = CloudantV1(authenticator=authenticator)


service.set_service_url('https://apikey-v2-
rsy830cz1zi58n2c6r65zltdnil5hsvuehtcomsrbbe:8c8217f7524c8e496de81adc45
fd866d@ba67c7fa-520d-4bdc-9344-0a240f78077b-
bluemix.cloudantnosqldb.appdomain.cloud')


cap= cv2.VideoCapture(0)

font = cv2.FONT_HERSHEY_PLAIN
```

```python
while True:
    _, frame = cap.read()
    decodedObjects = 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='ibm_railways',
            doc_id = a
            ).get_result()
            print (response)
            time.sleep(5)
        except Exception as e:
            print(a)
            print ("Not a Valid T
icket")
            time.sleep(5)


    cv2.imshow("Frame",frame)
    if cv2.waitKey(1) & 0xFF ==ord('q'):
        break
cap.release()
cv2.destroyAllWindows()
```

client.disconnect()

OUTPUT:

```
Python 3.9.5 (tags/v3.9.5:0a7dcbd, May  3 2021, 17:27:52) [MSC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: E:\Gnaneshwar\Projects\smart solutions for railways\QRScanner.py ==
{'_id': '2021-07-27,15:41:13', '_rev': '1-7a3dd4e86373d51fbe754f8c5be5f038', 'Name': 'Gnaneshwar', 'Age': 24, 'Mobile
': 9989898989, 'Boarding': 'Vijayawada', 'Destination': 'Chennai', 'Seat': 3}
{'_id': '2021-07-27,15:41:48', '_rev': '1-eee068574899b384dcbb74e28ca07d81', 'Name': 'Bandari', 'Age': 26, 'Mobile':
1234567890, 'Boarding': 'Hyderabad', 'Destination': 'Bangalore', 'Seat': 5}
Not a Valid Ticket
```