

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

QR SCANNER CODE

```

import cv2
import numpy as np
import time
import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import Cloudantv1
from ibmcloudant import CouchDbSectionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator=BasicAuthenticator('apikey-v2-
16u3crntpkghhxefdikbtssoh5fwezrmuup5fb5g3ubz','b0ab119f45d3e6255eabb97
8e7e2f0')

service=Cloudantv1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-
16u3crntpkghhxefdikbtssoh5fwezrmuup5fb5g3ubz:b0ab119f45d3e6255eabb97
8e7e2f0')

cap=cv2.VideoCapture(0)
font=cv2.FONT_HERSHEY_PLAIN

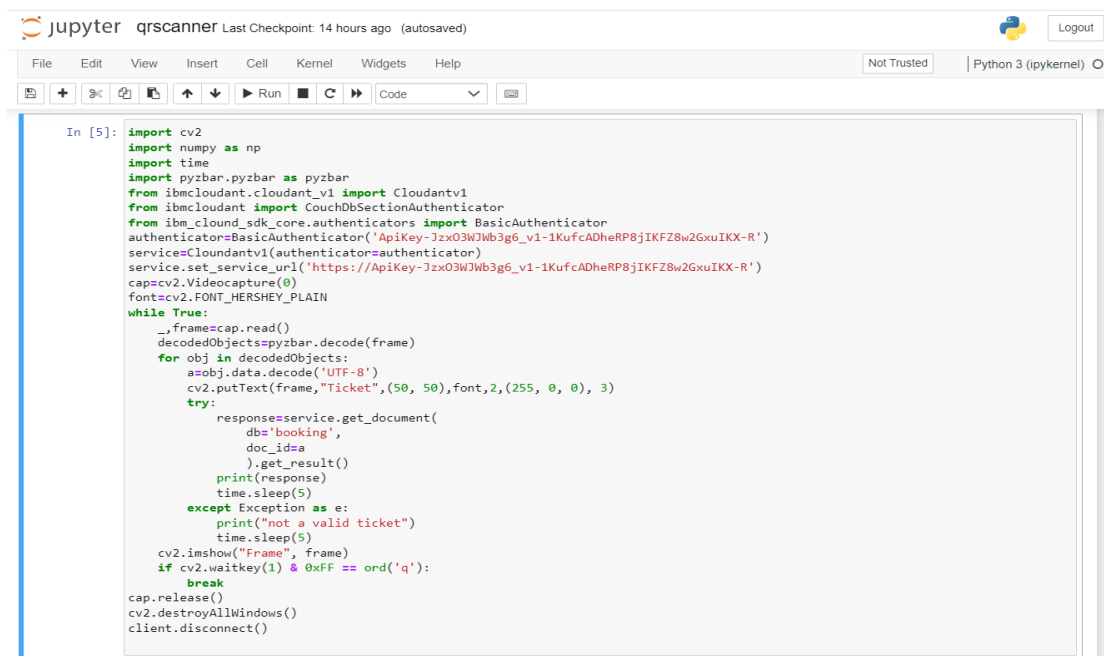
while True:
    _,frame=cap.read()
    decodedObjects=pyzbar.decode(frame)
    for obj in decodedObjects:
        a=obj.data.decode('UTF-8')
        cv2.putText(frame,"Ticket",(50, 50),font,2,(255, 0, 0), 3)
    try:
        response=service.get_document(
            db='booking',

```

```

        doc_id=a
    ).get_result()
print(response)
time.sleep(5)
except Exception as e:
    print("not a valid ticket")
    time.sleep(5)
cv2.imshow("Frame", frame)
if cv2.waitKey(1) & 0xFF == ord('q'):
    break
cap.release()
cv2.destroyAllWindows()
client.disconnect()

```



The screenshot shows a Jupyter Notebook window titled "qrcode_scanner" with a last checkpoint 14 hours ago. The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help), a toolbar with icons for file operations and execution, and a status bar indicating "Not Trusted" and "Python 3 (ipykernel)". The main area displays a code cell with the following Python code:

```

In [5]: import cv2
import numpy as np
import time
import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import Cloudantv1
from ibmcloudant import CouchDbSectionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator
authenticator=BasicAuthenticator('ApiKey-Jzx03WJwb3g6_v1-1KufcADheRP8jIKFZ8w2GxuIKX-R')
service=Cloudantv1(authenticator=authenticator)
service.set_service_url('https://ApiKey-Jzx03WJwb3g6_v1-1KufcADheRP8jIKFZ8w2GxuIKX-R')
cap=cv2.VideoCapture(0)
font=cv2.FONT_HERSHEY_PLAIN
while True:
    _,frame=cap.read()
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    for obj in decodedObjects:
        a=obj.data.decode('UTF-8')
        cv2.putText(frame,"Ticket",(50, 50),font,2,(255, 0, 0), 3)
        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 ticket")
            time.sleep(5)
    cv2.imshow("Frame", frame)
    if cv2.waitKey(1) & 0xFF == ord('q'):
        break
cap.release()
cv2.destroyAllWindows()
client.disconnect()

```

OUTPUT:



```
"IDLE Shell 3.9.5"
File Edit Shell Debug Options Window Help
Python 3.9.5 (tags/v3.9.5:0a7dcbb, 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': '1-7a3dd4e86373d51f8e754f8c5be5f038', 'Name': 'Gnaneshwar', 'Age': 24, 'Mobile': '9989898989', 'Boarding': 'Vijayawada', 'Destination': 'Chennai', 'Seat': 3}
{'_id': '2021-07-27,15:41:48', '_rev': '1-eee068574899b384dcb74e28ca07d81', 'Name': 'Bandari', 'Age': 26, 'Mobile': '1234567890', 'Boarding': 'Hyderabad', 'Destination': 'Bangalore', 'Seat': 5}
Not a Valid Ticket

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```