| 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_clound_sdk_core.authenticators import BasicAuthenticator

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

service=Cloundantv1(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',
```
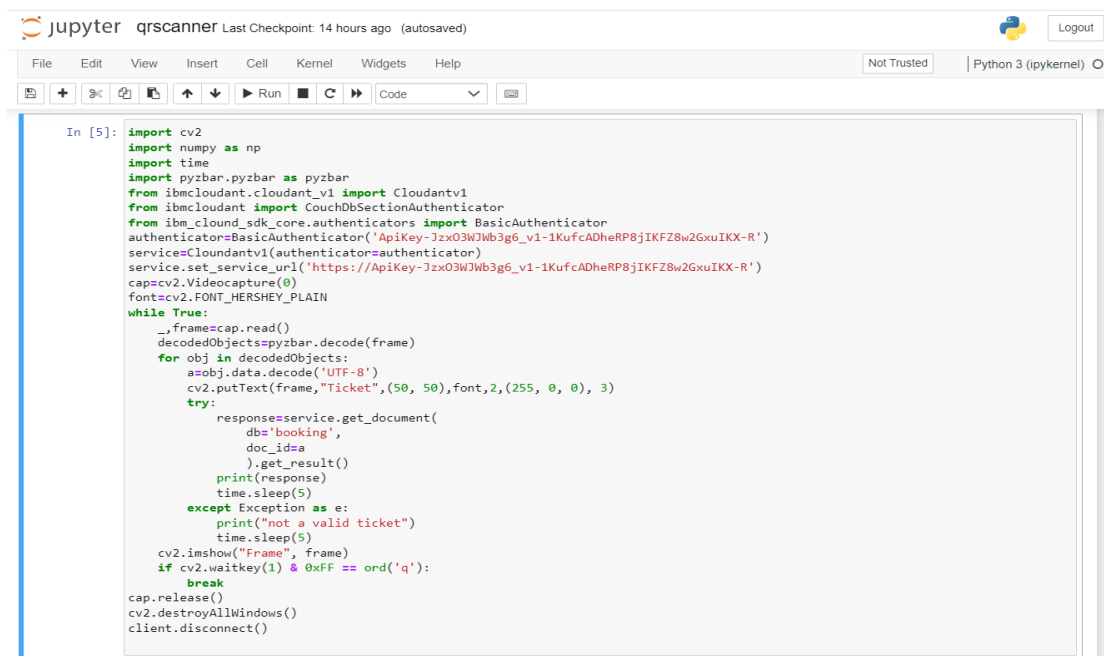
```
        doc_id=a
    ).get_result()
print(response)
time.sleep(5)
except Exception as e:
    print("not a valid ticket")
    time.sleep(5)
cv2.imshow("Frame", frame)
if cv2 waitkey(1) & 0xFF == ord('q'):
    break
cap.release()
cv2.destroyAllWindows()
client.disconnect()
```

```python
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_clound_sdk_core.authenticators import BasicAuthenticator
authenticator=BasicAuthenticator('ApiKey-JzxO3WJWb3g6_v1-1KufcADheRP8jIKFZ8w2GxuIKX-R')
service=Cloundantv1(authenticator=authenticator)
service.set_service_url('https://ApiKey-JzxO3WJWb3g6_v1-1KufcADheRP8jIKFZ8w2GxuIKX-R')
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()
```