

Sprint-3:

USN-4: As a TTE, I will cross-check the passenger for their tickets by scanning the QR code.

Code:

QRCodeScanner.py

```
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 ('apikey-v2-
2stdiumhdpvimevtz15mlesexkro758a3adfu6gzbd2i',
'cf64a065320a016ee67039aa90958562')

service=CloudantV1 (authenticator=authenticator)

service.set_service_url('https://apikey-v2-
2stdiumhdpvimevtz15mlesexkro758a3adfu6gzbd2i:cf64a065320a01
6ee67039aa90958562@03b99f47-5466-4bdd-b1d7-0c89004e3180-
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("Valid Ticket")
```

```
        #print (a)
```

```
        try:
```

```
            response = service.get_document (db='bookings',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:



