

## Develop the Python Script

Date	19 November 2022
Team ID	PNT2022TMID47580
Project Name	Smart Solutions for Railways

## Python Script code:

```
qrcode.py - C:\Users\ramkr\OneDrive\Desktop\qrcode.py (3.7.0)
File Edit Format Run Options Window Help

import cv2
import numpy as np
import time
import pyzbar.pyzbar as pyzbar
from ihmcloudant import CouchDbSessionAuthenticator
from ihmcloudant.cloudant_v1 import CloudantV1
from ihm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-v151cj6pvfp4478gn9ila9quezm1c6wx35gsa5an7cp','66d5a65b81360dd97cc802ea47a8ebd7')
service= CloudantV1(authenticator=authenticator)
service.set_service_url('https://4ec8693c-41dd-43b0-87a9-eabb98825ef3-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='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:

```
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```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ramkr\OneDrive\Desktop\qrcode.py =====
>>>
2022-11-17,11:07:12
Not a Valid Ticket
2022-11-17,11:07:12
Not a Valid Ticket
2022-11-17,13:47:06
Not a Valid Ticket
2022-11-17,13:47:06
{'_id': '2022-11-17,13:47:06', '_rev': '1-789a9272bfec28b42f886da07c44284c', 'Name': 'vishnu', 'Age': 20, 'Mobile': 2211665544, 'Boarding': 'Vijayawada', 'Destination': 'Chennai', 'Seat': 4}
```

Ln: 5 Col: 0

Ln: 41 Col: 19