

## SPRINT-3

DATE	-	12 NOVEMBER 2022
TEAM ID	-	PNT2022TMID52824
PROJECT NAME	-	SMART SOLUTION OF RAILWAYS

### PROCEDURE:

**Step1:** Develop a python script to scan the QR code.

**Step2:** Connect the python code to IBM Cloudant using the credentials.

**Step 3:** Run the program.

### PYTHON SCRIPT TO SCAN QR CODE:

```
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-mSHe9p2i-iMMAE9ma9iq6O8ZgeU1bF-
sGSxP46Mk1bLu','EB-*2EQcMJSiWFhbs!')

service = CloudantV1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-mSHe9p2i-iMMAE9ma9iq6O8ZgeU1bF-
sGSxP46Mk1bLu:EB-*2EQcMJSiWFhbs!')
```

```

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()