

## SPRINT 3

DATE	-	19 NOVEMBER 2022
TEAM ID	-	PNT2022TMID16776
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
from pyzbar.pyzbar import decode
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant.cloudant_v1.authenticators import CouchDbSessionAuthenticator
from ibmcloudant.cloudant_v1.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi',
                                   'af693938842290ec2c254461754447b5')
service = CloudantV1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi:af693938842290ec2c254461754447b5@82d874994395-4f46-a190-6a186bee5051-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 TICKER")
                time.sleep(5)

        cv2.imshow("Frame",frame) if
        cv2.waitKey(1) & 0xFF ==ord('q'):
            break
        cap.release() cv2.destroyAllWindows()
        client.disconnect()

```

