

SPRINT-4

Date	13 NOVEMBER 2022
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Project Name	Project – SMART SOLUTIONS FOR RAILWAYS

PROCEDURE:

Step1: Develop a python script to scan the QR code

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

Step3: Run the program

PYTHON SCRIPT TO SCAN QR CODE:

```
import cv2

import numpy as np

import time

import pyzbar.pyzbar as pyzbar

from pyzbar.pyzbar import decode

from ibmcloudant.cloudant_v1 import CloudantV1

from ibmcloudant import CouchDbSessionAuthenticator

from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

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

service = CloudantV1(authenticator=authenticator)

service.set_service_url('https://apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysgc72h53lzi:af693938842290ec2c254461754447b5@82d87499-4395-4f46-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()
```

PYTHON CODE OUTPUT:

