

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@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()

```

PYTHON CODE OUTPUT:

