

## SPRINT-3

Date	19 NOVEMBER 2022
Team ID	PNT2022TMID29390
Project Name	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)
```



## QR CODE DETAILS:

```
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\Nishanth G\AppData\Local\Programs\Python\Python39\pythoncam.py
{'_id': '2022-11-15,11:34:34', '_rev': '1-dc28604ce92b95da395e5e9a40018fef', 'Name': 'SUDHA', 'Age': 20, 'Mobile': 8976543212, 'boarding': 'Coimbatore', 'destination': 'Chennai', 'Seat': '2', 'Train selection': 'Blue mountain'}
```

## DATA STORED IN CLOUDANT:

booking > 2022-11-15,11:34:34

Save Changes Cancel

Upload Attachment Clone Document Delete

1

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"\_id": "2022-11-15,11:34:34",

"\_rev": "1-dc28604ce92b95da395e5e9a40018fef",

"Name": "SUDHA",

"Age": 20,

"Mobile": 8976543212,

"boarding": "Coimbatore",

"destination": "Chennai",

"Seat": "2",

"Train selection": "Blue mountain"

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