Topic:

Smart Solution for Railways Team ID:

PNT2022TMID18625

SPRINT – 4 PROCEDURE:

- **Step 1:** Develop a PYTHON script to scan the QR code.
- **Step 2:** Connect the python code to IBM Cloudant using the credentials.
- **Step 3:** Run the program.

PYTHON CODE FOR GPS:

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-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2 ysgc72h53lzi', 'af693938842290ecc254461754447b5')

service = CloudantV1 (authenticator = authenticator)

service.set_service_url ('https://apikey-v2-125rwcp4ifi6zz2ly1cq0kakyjn98du2ysg c72hl53zi:af693938842290ec2c254461754447b45@82d87499-4395-4f46-a190-6 a186bee5051 – bluemix.cloudantnosqldb.appdomain.cloud')

cap = cv2.VideoCapture(0)

```
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 TICKET!")
      time.sleep(5)
cv2.imshow("Frame", frame)
if cv2.waitKey(1) & 0xFF ==
ord('q'):
      break
cap.release()
```

cv2.destroyAllWindows()	
client.disconnect()	

PYTHON CODE OUTPUT:



