

## 1.Project Development phase

Date	14 November 2022
Team ID	PNT2022TMID38287
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS
Maximum Marks	4 Marks

### Delivering of sprint-2

#### QRCODE scanner in python :

View the passenger details by scanning the QR code.

#### Python test code:

```
import cv2
from pyzbar.pyzbar
import decode
import time
cap =
cv2.VideoCa
pture(0)
cap.set(3,
640)

while camera
== True:
success,
frame =
cap.read()for
code in
```

```

decode(frame)
e):
    if code.data.decode('utf-8') not in used_codes:
print('Approved. You can enter!')

    print(code.data.decode('u
tf-8'))
used_codes.append(code.data.d
ecode('utf-8'))time.sleep(5)
elifcode.code.decode('utf-8') in
used_codes: print('Sorry, this code
has been already used!')else :
    pass
cv2.imshow('Testing-
code-scan', frame )
cv2.waitKey(1)

```

reader.py - C:\Users\dinesh\Desktop\python files\reader.py (3.10.7)

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```
import cv2
from pyzbar.pyzbar import decode
import time
cap = cv2.VideoCapture(0)
cap.set(3, 640)
cap.set(4, 480)
used_codes = []

camera = True
while camera == True:
    success, frame = cap.read()
    for code in decode(frame):
        if code.data.decode('utf-8') not in used_codes:
            print('Approved. You can enter!')
            print(code.data.decode('utf-8'))
            used_codes.append(code.data.decode('utf-8'))
            time.sleep(5)
        elif code.data.decode('utf-8') in used_codes:
            print('Sorry, this code has been already used!')
        else:
            pass
    cv2.imshow('Testing-code-scan', frame)
    cv2.waitKey(1)
```

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