

## SPRINT-2

<b>Date</b>	15 NOVEMBER 2022
<b>Team ID</b>	PNT2022TMID37866
<b>Project Name</b>	Project – SMART SOLUTIONS FOR RAILWAYS

**PROCEDURE:**

### Step1: Develop node red web application for train ticket booking

Step2: Copy the node red link and add /ui to the same link and browse it

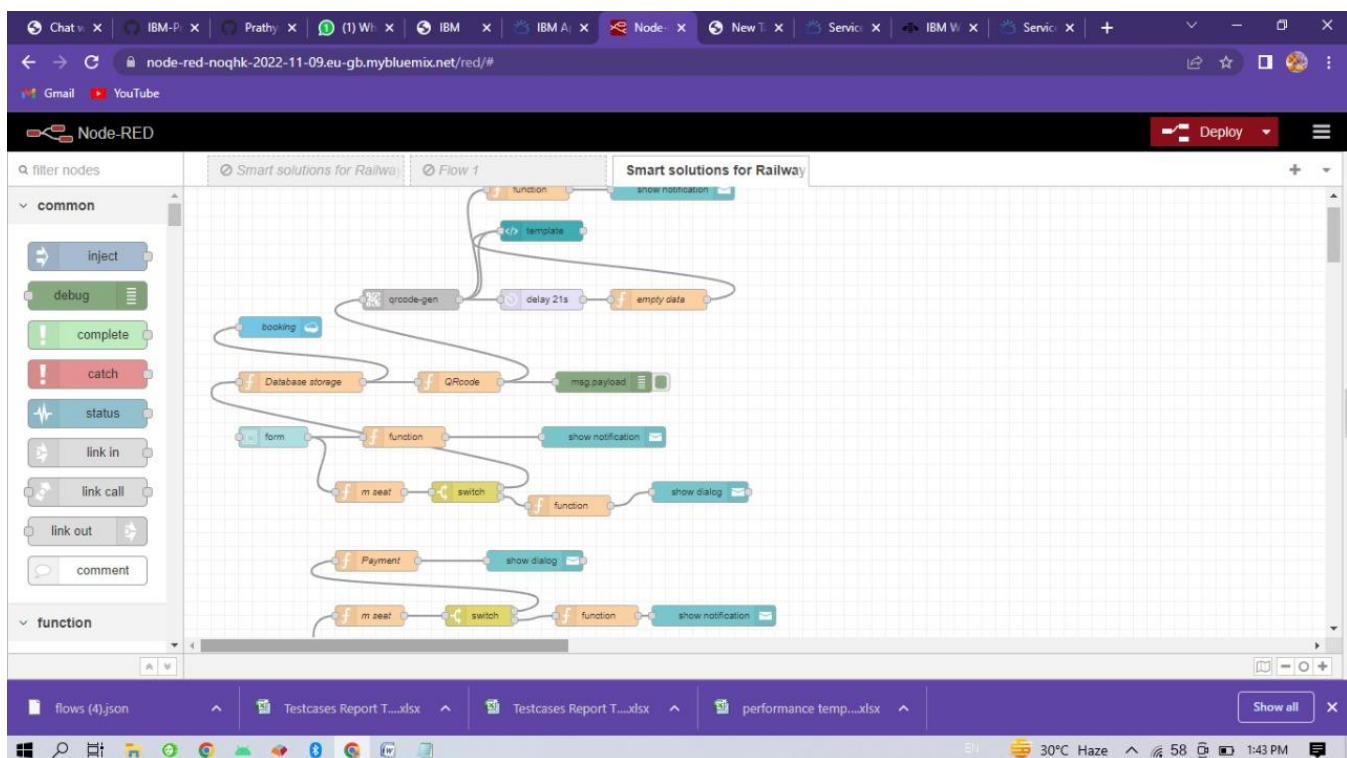
Step3: Fill the details Step4:

Click on submit

Step5: QR code will be submitted

Step5:Ticket is generated

**NODE RED FLOW CONNECTION:**



## NODE RED FLOW FOR PAYMENT:

Booking trains

Choose train

Boarding Chengalpattu

Destination Perungalattur

Seat availability 2

Make payment

OK

SUBMIT CANCEL CLEAR

## PAYMENT PAGE:

Payment

pay

Card name

Card number

CVV

Google pay

phone pay

SUBMIT CANCEL


QRCODE GENERATION:

Download x IBM Cl x Node-r x Node-r x ui-map x Whats x Node-r x Instant x How To x node-r x IBM x Locust x +

https://node-red-aanolh-2022-11-10.eu-gb.mybluemix.net/ui/#/1?socketid=UX\_-TtZ2b89wMghAAAK

Payment

pay



Card name

Card number

CVV


Google pay

phone pay

SUBMIT

CANCEL

Type here to search



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15:04

18-11-2022

## NODE RED OUTPUT:

QRScanner.py - E:\Projects\QRScanner.py (3.9.10)

File Edit Format Run Options Window Help

```
import cv2
import numpy as np
import time
import pyzbar.pyzbar as pyzbar
from ibmcloudant.cloudant_v1 import CloudantV1
from ibmcloudant import CouchDbSessionAuthenticator
from ibm_cloud_sdk_core.authenticators import BasicAuthenticator

authenticator = BasicAuthenticator('apikey-v2-e379zksq0z7nhqjabgd78o37jq5vtyk7xab8iueumb', 'b06d564c2d1b9cdfb31fc86b7de1684e')
service=CloudantV1(authenticator=authenticator)
service.set_service_url('https://apikey-v2-e379zksq0z7nhqjabgd78o37jq5vtyk7xab8iueumb:b06d564c2d1b9cdfb31fc86b7de1684e@0000eala-955f-48ed-aeb9-e6679f14408a-bluemix.cloudantnosqldb.appdomain

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

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ENG

13:55  
18-11-2022