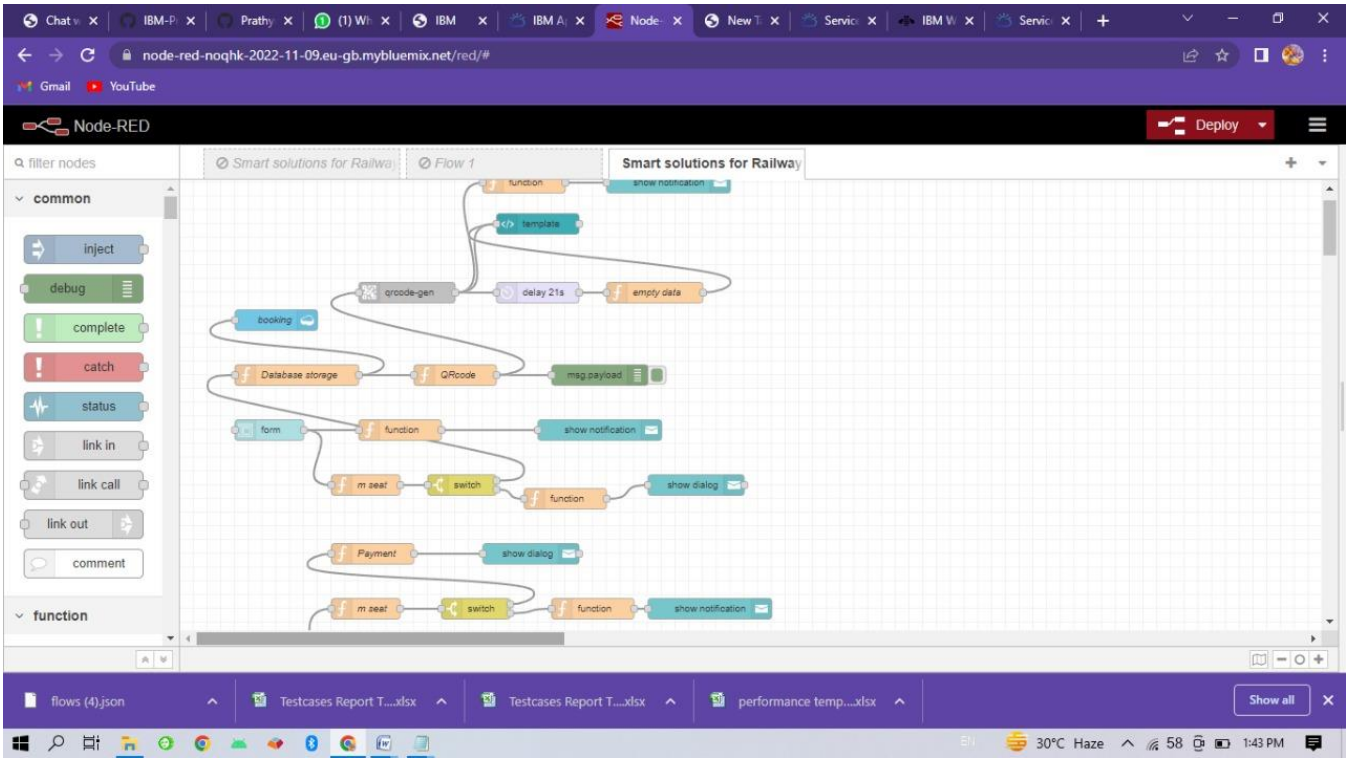
SPRINT-2

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID37866
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS

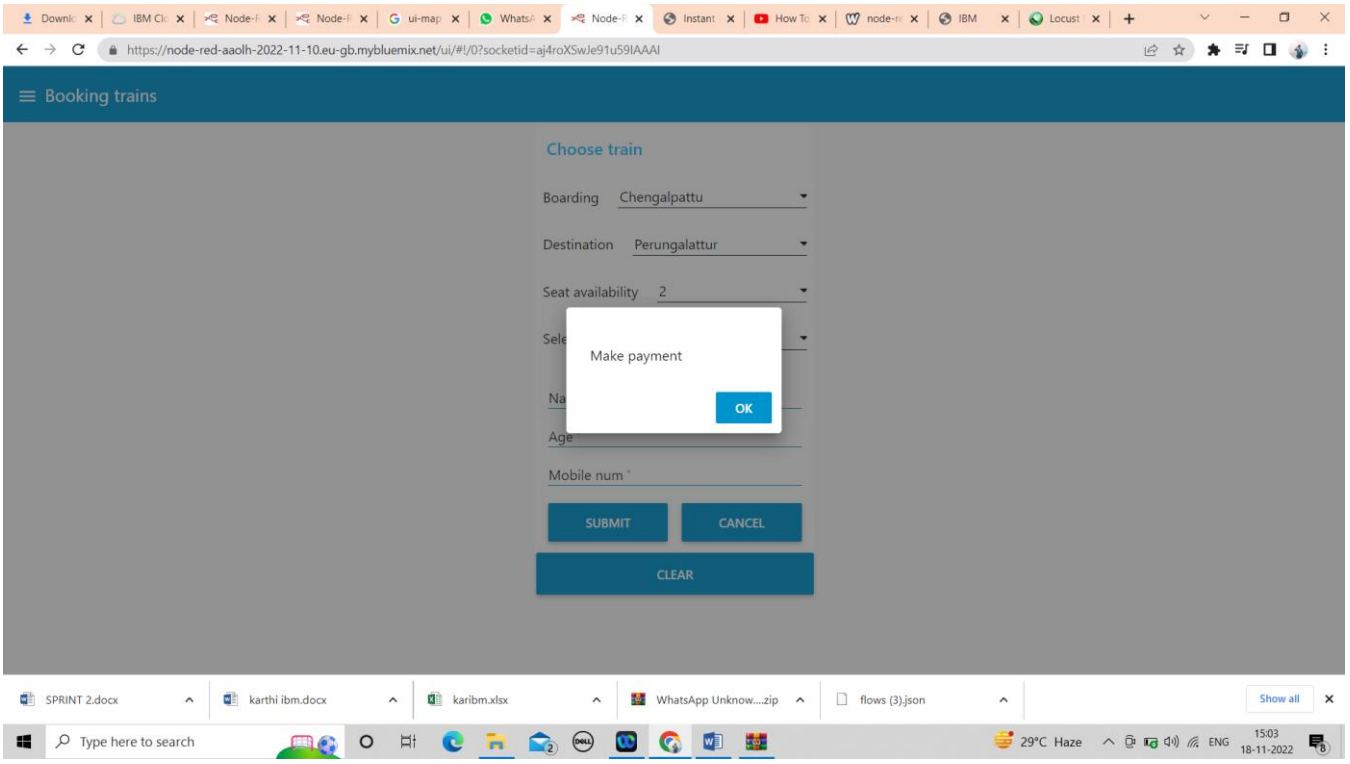
PROCEDURE:

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

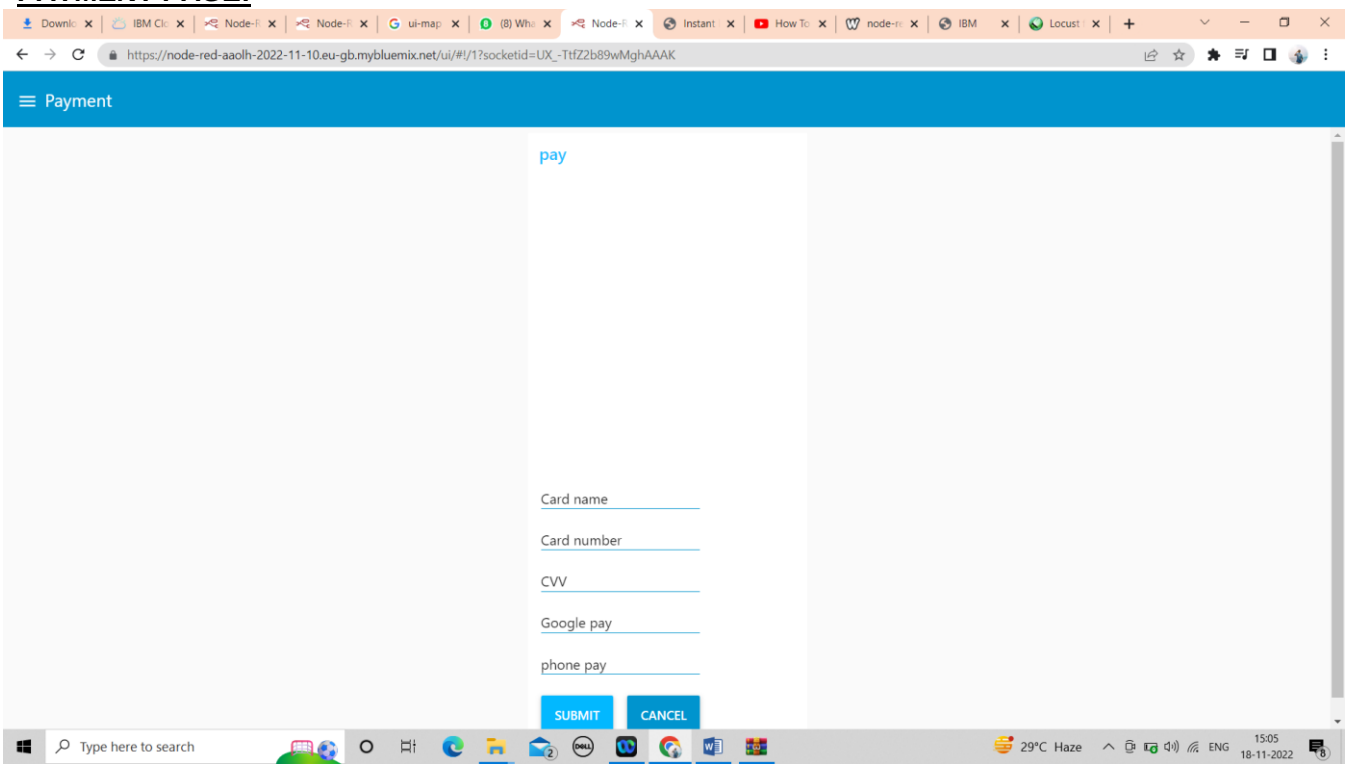
NODE RED FLOW CONNECTION:



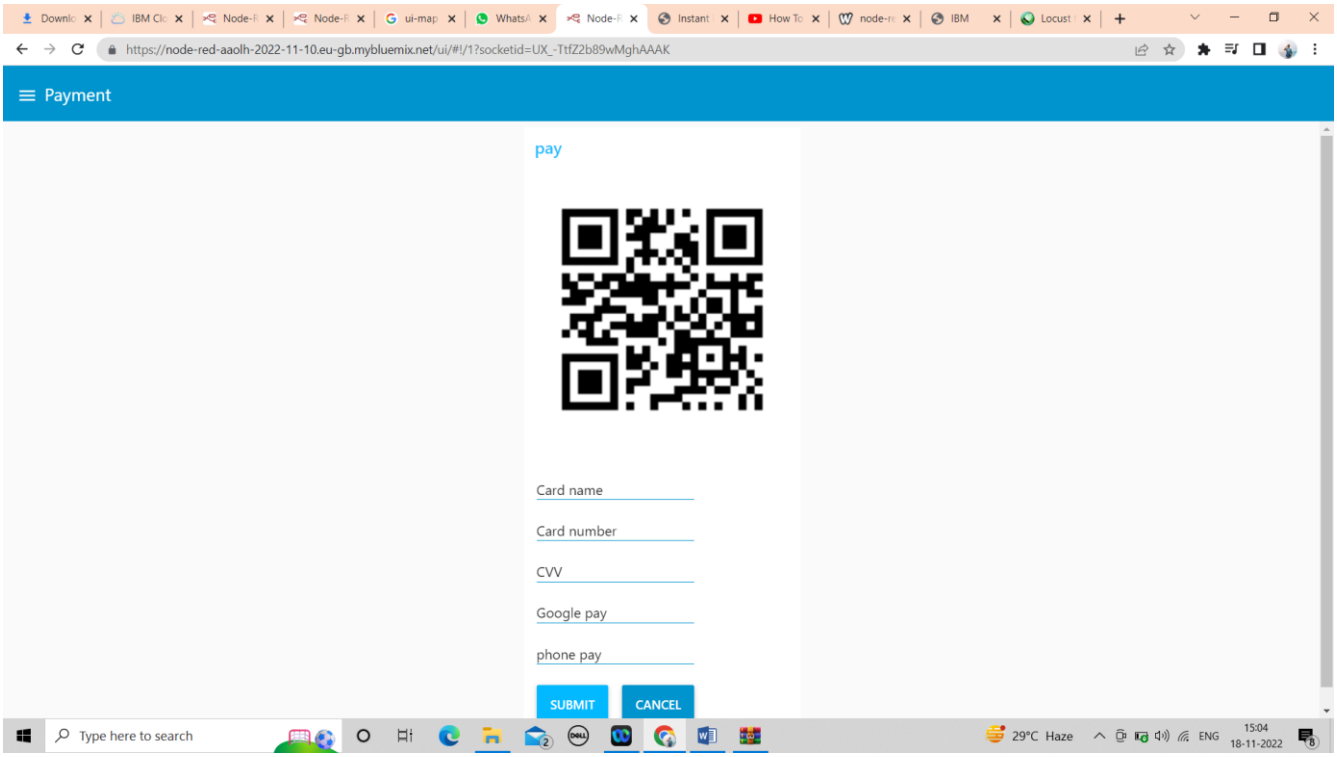
NODE RED FLOW FOR PAYMENT:



PAYMENT PAGE:



QRCODE GENERATION:



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@0000ea1a-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()
```

Ln: 21 Col: 28