PROJECT DEVELOPMENT PHASE - SPRINT 2

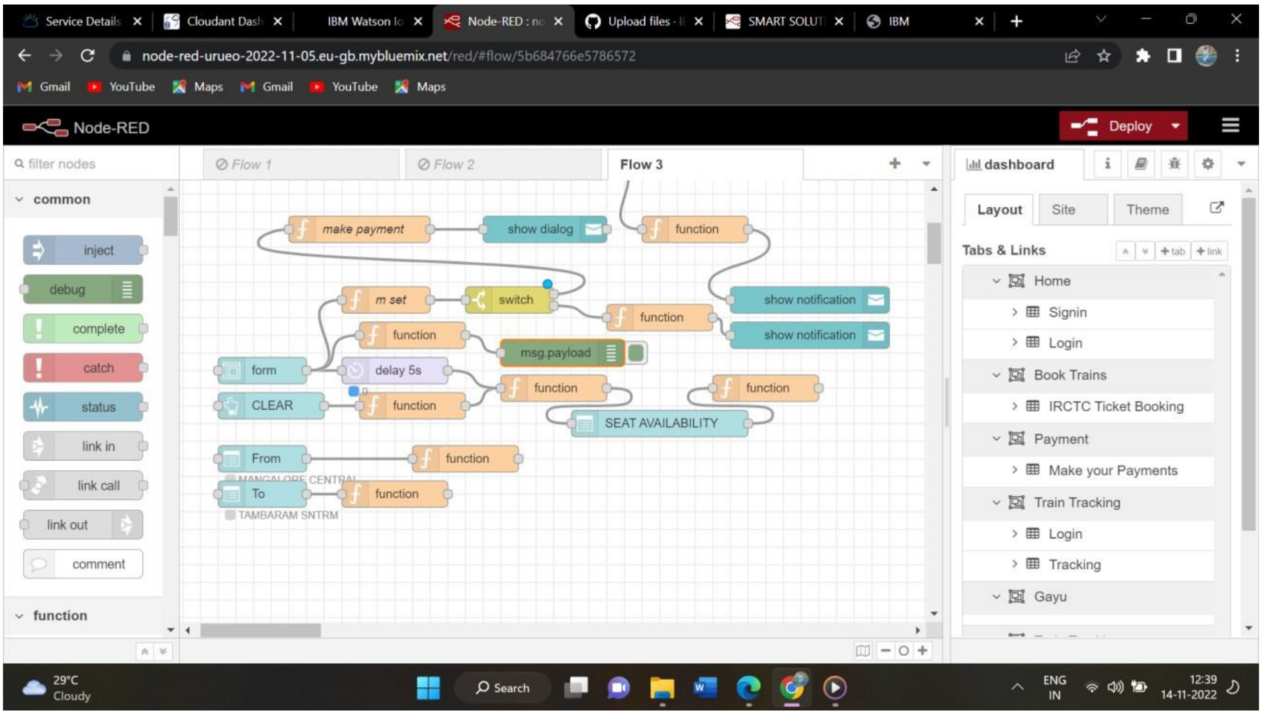
Date	5 NOVEMBER 2022
Team ID	PNT2022TMID08702
Project Name	Smart Solutions for railways

SPRINT 2 – Train Booking and Payments

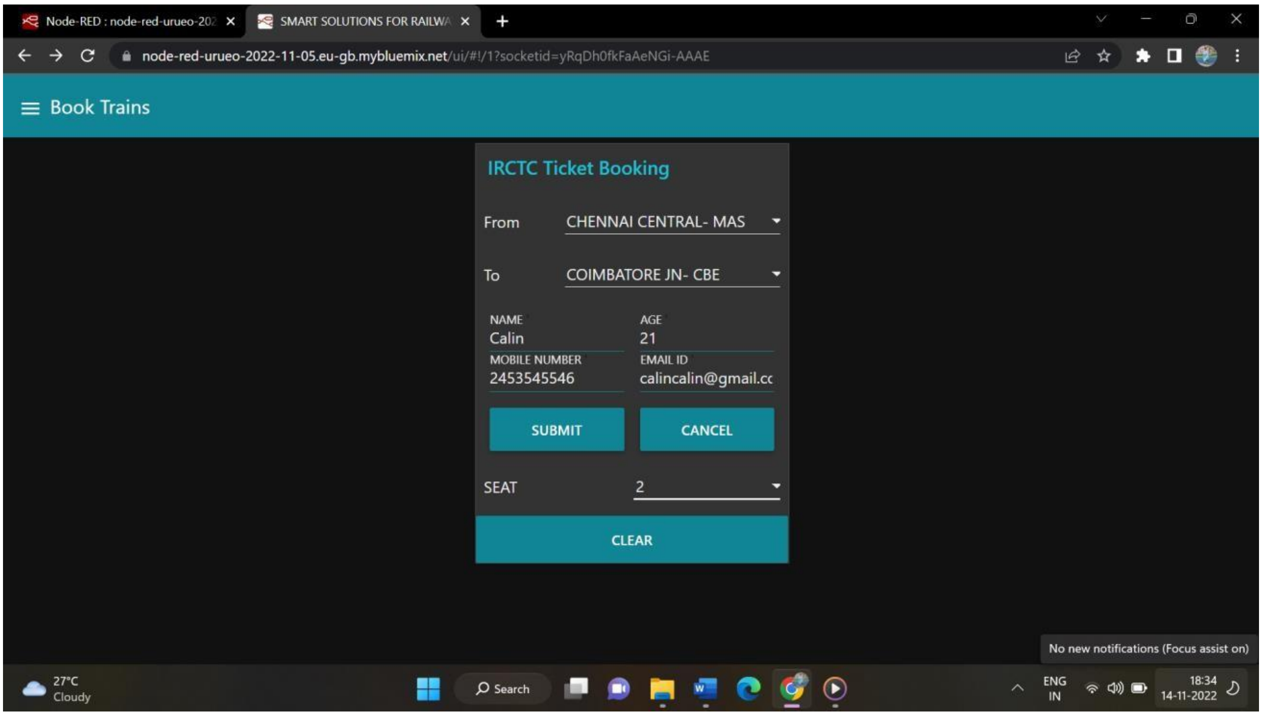
After logging into the website, the user should enter the Travelling details (Boarding and destination status). The user must also enter their personal details. After providing the required details, they are directed to the payment tab.

In the payment section, the user should enter their card details such as NAME, CARD NUMBER and CVV. Once they complete the payment, the ticket will be generated. The user will receive an unique identification (QR code) which will be used for ticket verification.

NODE-RED FLOW FOR TICKET BOOKING



USER INTERFACE FOR TICKET BOOKING



Node-RED : node-red-urueo-202
SMART SOLUTIONS FOR RAILWA
node-red-urueo-2022-11-05.eu-gb.mybluemix.net/ui/#!/1?socketid=yRqDh0fkFaAeNGi-AAAE
Book Trains

IRCTC Ticket Booking

From: CHENNAI CENTRAL- MAS

To: COIMBATORE JN- CBE

NAME: Calin

AGE: 21

MOBILE NUMBER: 2453545546

EMAIL ID: calincalin@gmail.cc

SUBMIT

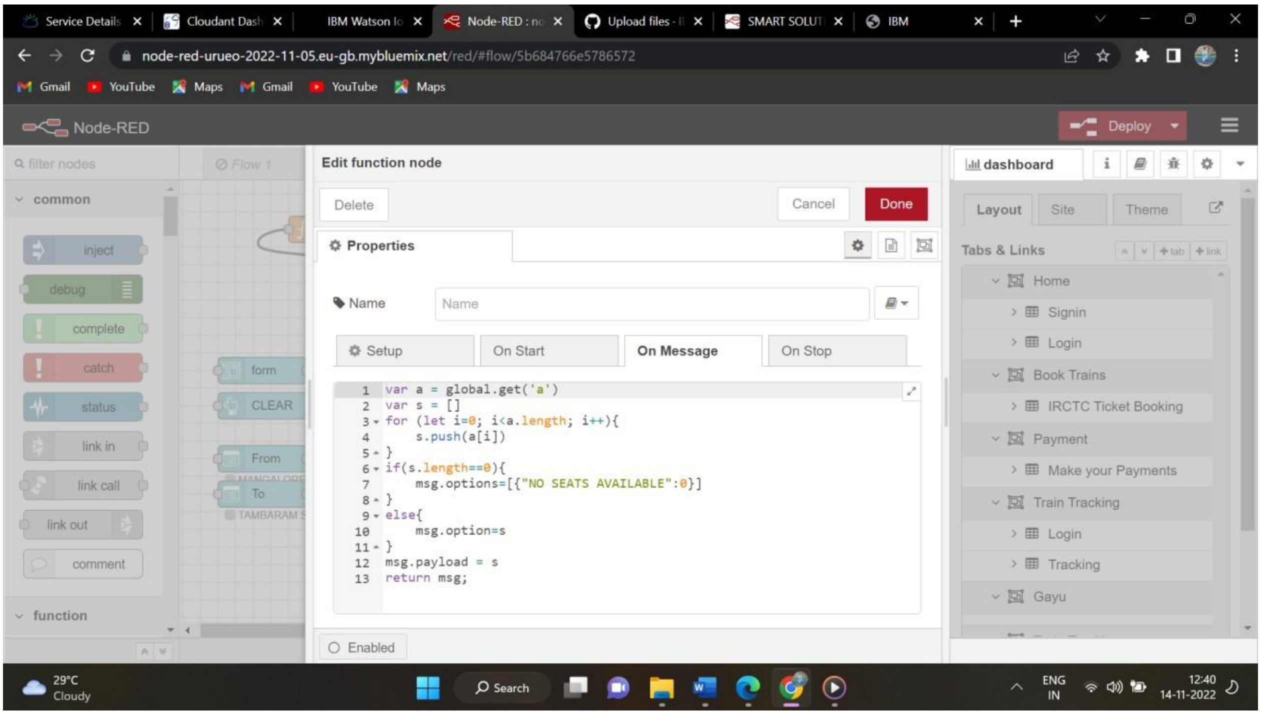
CANCEL

SEAT: 2

CLEAR

No new notifications (Focus assist on)
27°C
Cloudy
Search
ENG
IN
18:34
14-11-2022

NODE-RED FLOW FOR TICKET BOOKING



Edit function node

Delete

Cancel

Done

Properties

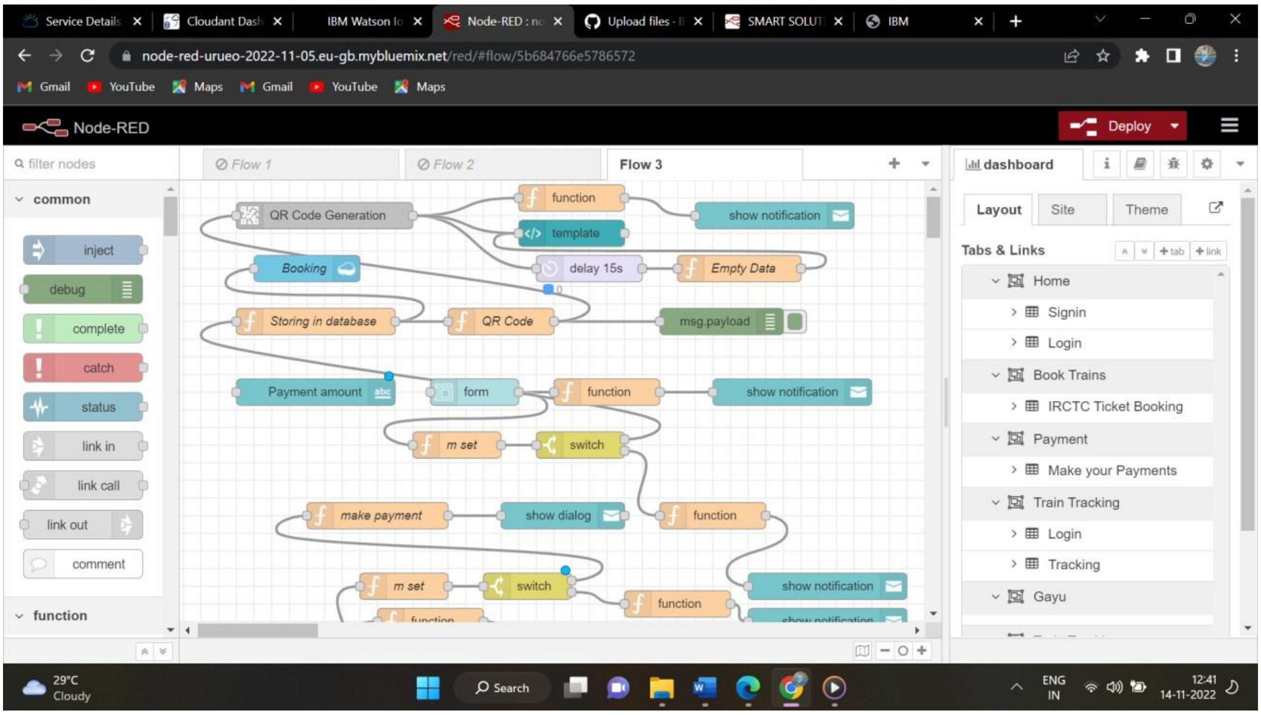
Name: Name

Setup | On Start | On Message | On Stop

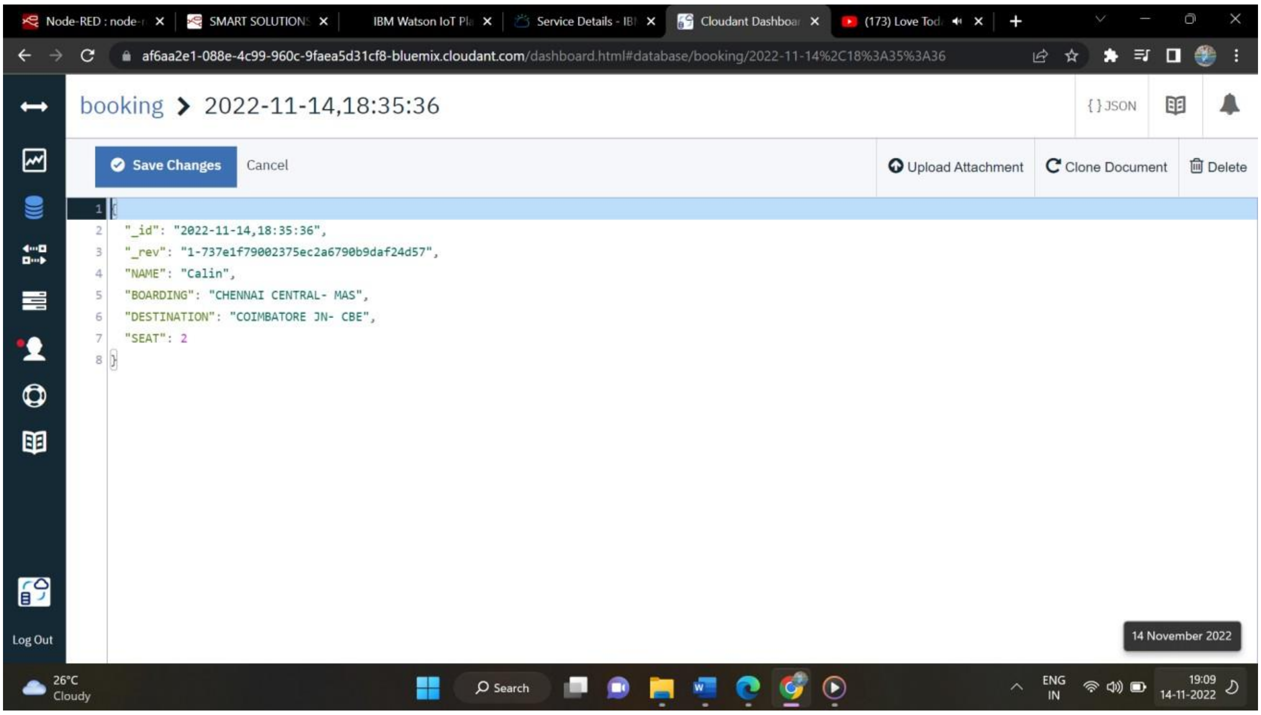
```
var a = global.get('a')
var s = []
for (let i=0; i<a.length; i++){
    s.push(a[i])
}
if(s.length==0){
    msg.options=[{"NO SEATS AVAILABLE":0}]
}
else{
    msg.option=s
}
msg.payload = s
return msg;
```

○ Enabled

NODE-RED FLOW FOR PAYMENT

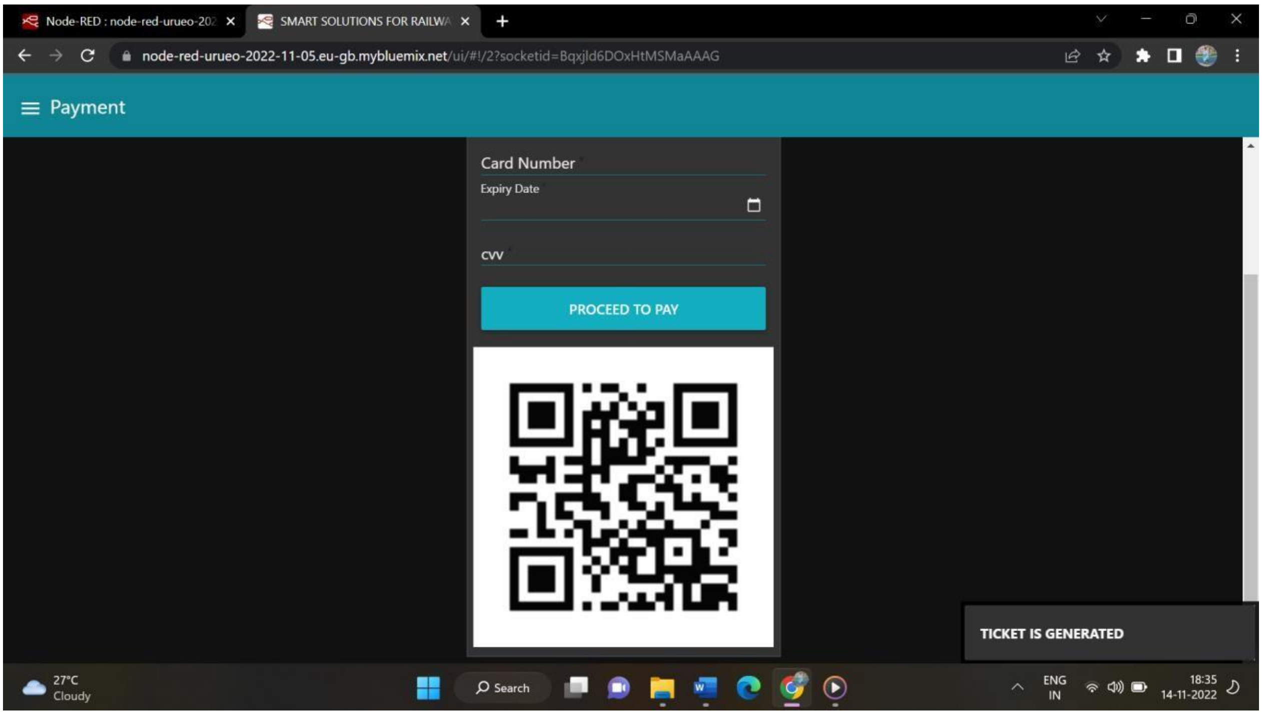


IBM CLOUDANT SIGNIN DATABASE


af6aa2e1-088e-4c99-960c-9faea5d31cf8-bluemix.cloudant.com/dashboard.html#database/booking/2022-11-14%2C18%3A35%3A36
booking
2022-11-14,18:35:36
{ } JSON
Save Changes
Cancel
Upload Attachment
Clone Document
Delete
Log Out
14 November 2022

```
{
  "_id": "2022-11-14,18:35:36",
  "_rev": "1-737e1f79002375ec2a6790b9daf24d57",
  "NAME": "Calin",
  "BOARDING": "CHENNAI CENTRAL- MAS",
  "DESTINATION": "COIMBATORE JN- CBE",
  "SEAT": 2
}
```

PYTHON CODE FOR GPS:


Node-RED : node-red-urueo-202
SMART SOLUTIONS FOR RAILWA
node-red-urueo-2022-11-05.eu-gb.mybluemix.net/ui/#!/2?socketid=Bqxjld6DOxHtMSMaAAAG
Payment
Card Number
Expiry Date
CVV
PROCEED TO PAY
27°C
Cloudy
Search
ENG
IN
18:35
14-11-2022

TICKET IS GENERATED

```
 import
wiotp.sdk.devie
import time
import
random
myConfi
g = {
        "identity": {
                "orgId": " s91n0t",
                "typeId": "
                MyDeviceType",
                "deviceId":" 12345"
        },
        "auth": {

                "token": " @)fRE3fdiTS!MaT3F_"
        }
}

def myCommandCallback (cmd):

        print ("Message received from IBM IoT Platform: %s" %
        cmd.data['command'])m=cmd.data['command']


client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)client.connect()


def pub (data):
    client.publishEvent(eventId="status", msgFormat="json",
    data=myData, qos=0,onPublish=None) print ("Published
    data Successfully: %s", myData)


while True:

    myData={'name': 'Train1', 'lat':13.08363 ,

    'lon': 80.27080}pub (myData)
    time.sleep (2)
    myData={'name': 'Train2', 'lat': 12.40797,
    'lon': 79.81410}pub (myData)
    time.sleep (2)

    myData={'name': 'Train1', 'lat': 11.83331,
    'lon': 79.37465}pub(myData)
    time.sleep(6)

    myData={'name': 'Train1', 'lat': 11.59664,
     'lon': 78.69899}pub (myData)
    time.sleep (6)


    myData={'name': 'Train1', 'lat': 11.63431,
    'lon': 78.11122}pub (myData)
    time.sleep (6)

    myData={'name': 'Train1', 'lat': 11.32207,
     'lon': 77.61684}pub (myData)
    time.sleep (6)

    myData={'name': 'Train1', 'lat': 11.03107,
    'lon': 76.96864}pub (myData)
    time.sleep (6)

    client.commandCallback =
myCommandCallbackclient.disconnect ()
```