

SPRINT-1

Date	09 NOVEMBER 2022
Team ID	PNT2022TMID37898
Project Name	IOT – SMART SOLUTIONS FOR RAILWAYS

PROCEDURE:

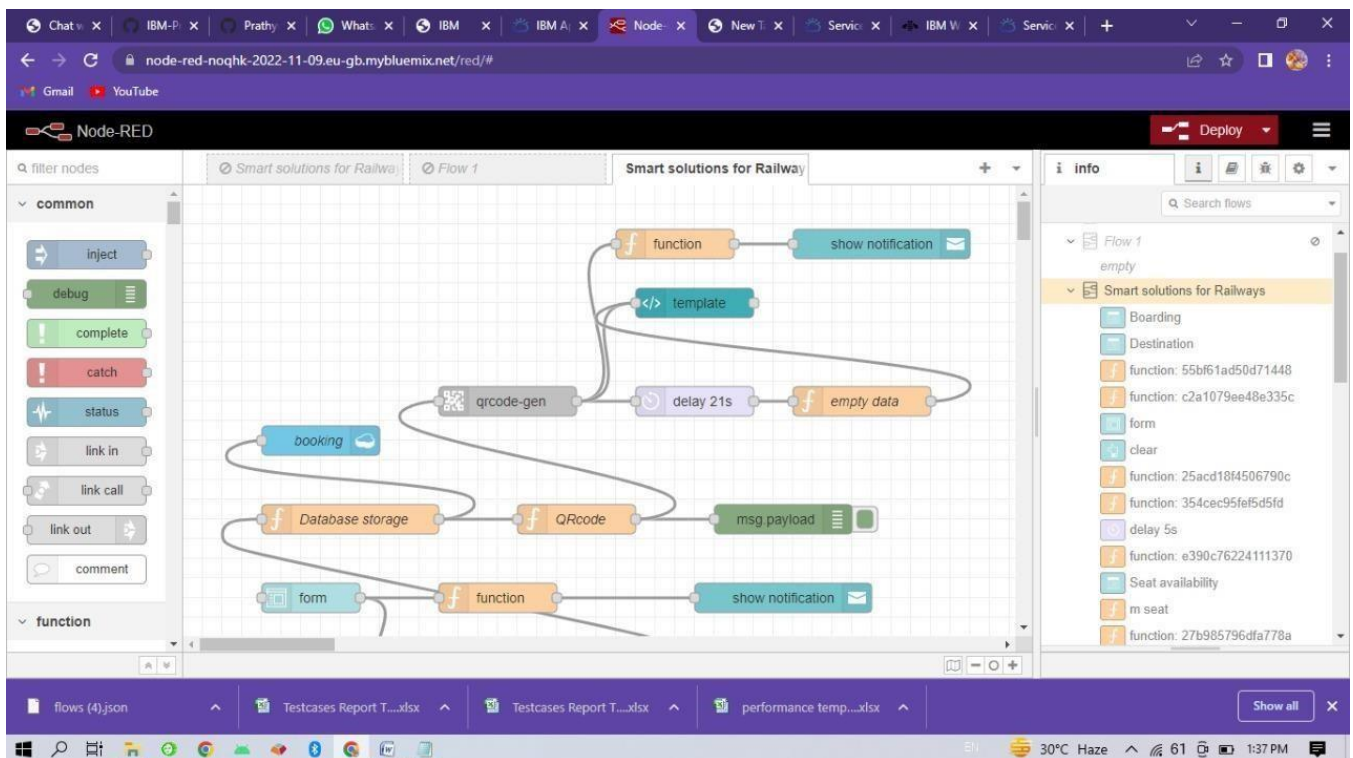
Srep1: Develop node red application

Step2: Install the required nodes from manage palette option

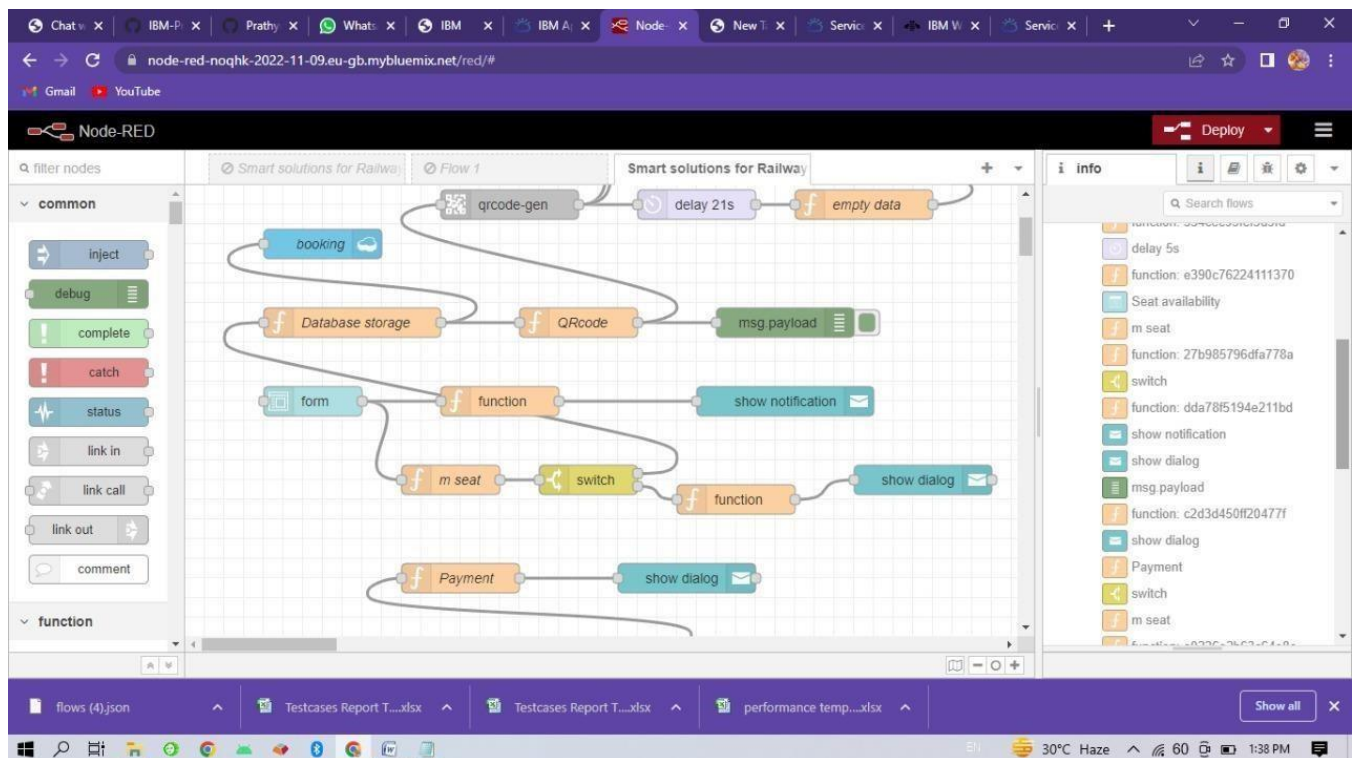
Step3: Connect the node flow

Step4: Deploy the flow

WEB APPLICATION :



NODES TO BOOK TRAIN:



FUNCTION NODE COMMAND TO INDICATE THE AVAILABLE SEATS:

```
var a=global.get('s')
if(a==1 || a==2 || a==3 || a==4 || a==5)
msg.payload=0
}
else{
    msg.payload=1
}
return msg;
```

FUNCTION NODE COMMAND TO CHOOSE THE AVAILABLE SEATS:

```
var s=global.get('s') var
a=global.get('a') function
reg(x){
    for(let i=0;i<a.length;i++){
if(a[i]==x){
```

```

        a.splice(i,1)
    }
}
} if(s==1){
global.set('s1',s)  reg(s)
}
else if(s==2){
global.set('s2',s)  reg(s)
}
else if(s==3){
global.set('s3',s)  reg(s)
}
else if(s==4){
global.set('s4',s)  reg(s)
}
else if(s==4){
global.set('s4',s)  reg(s)
}
}
return msg;

```

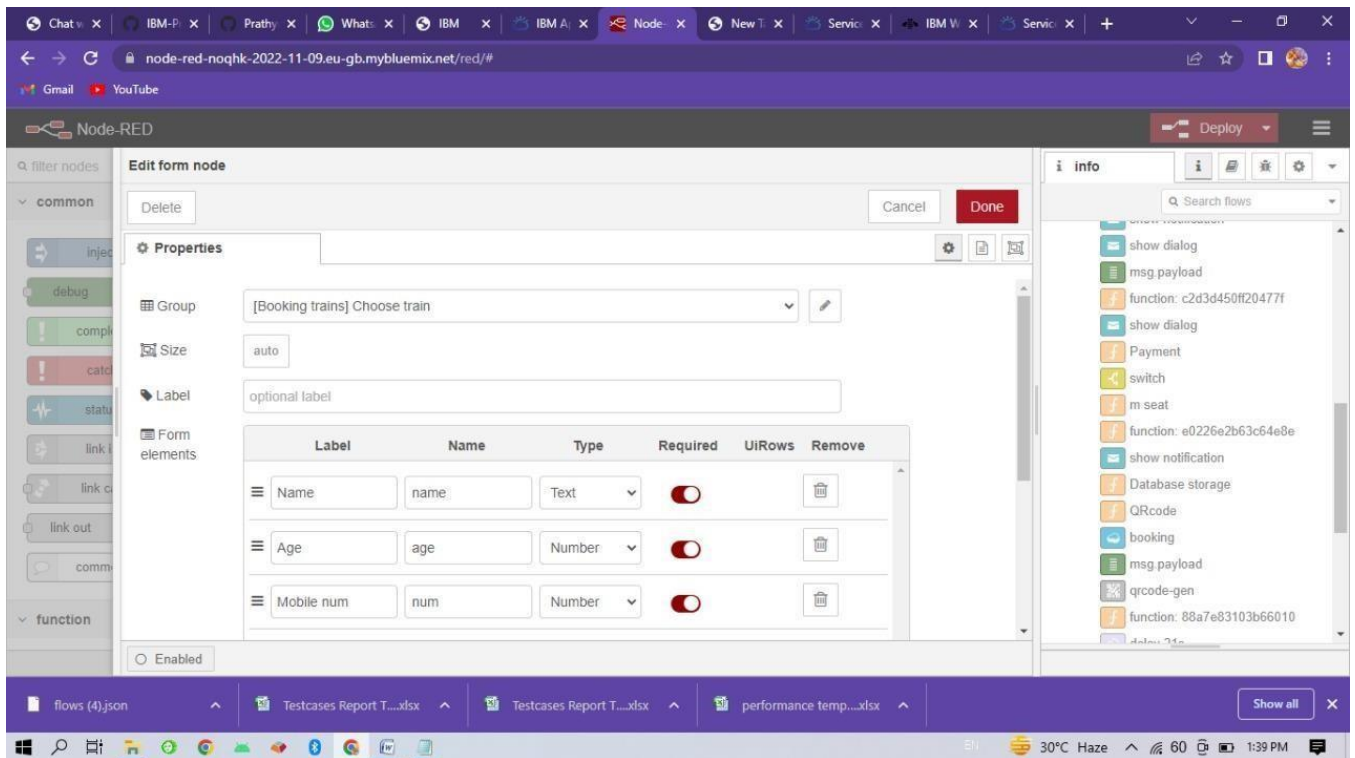
FUNCTION NODE COMMAND TO STORE DATA IN DATABASE:

```

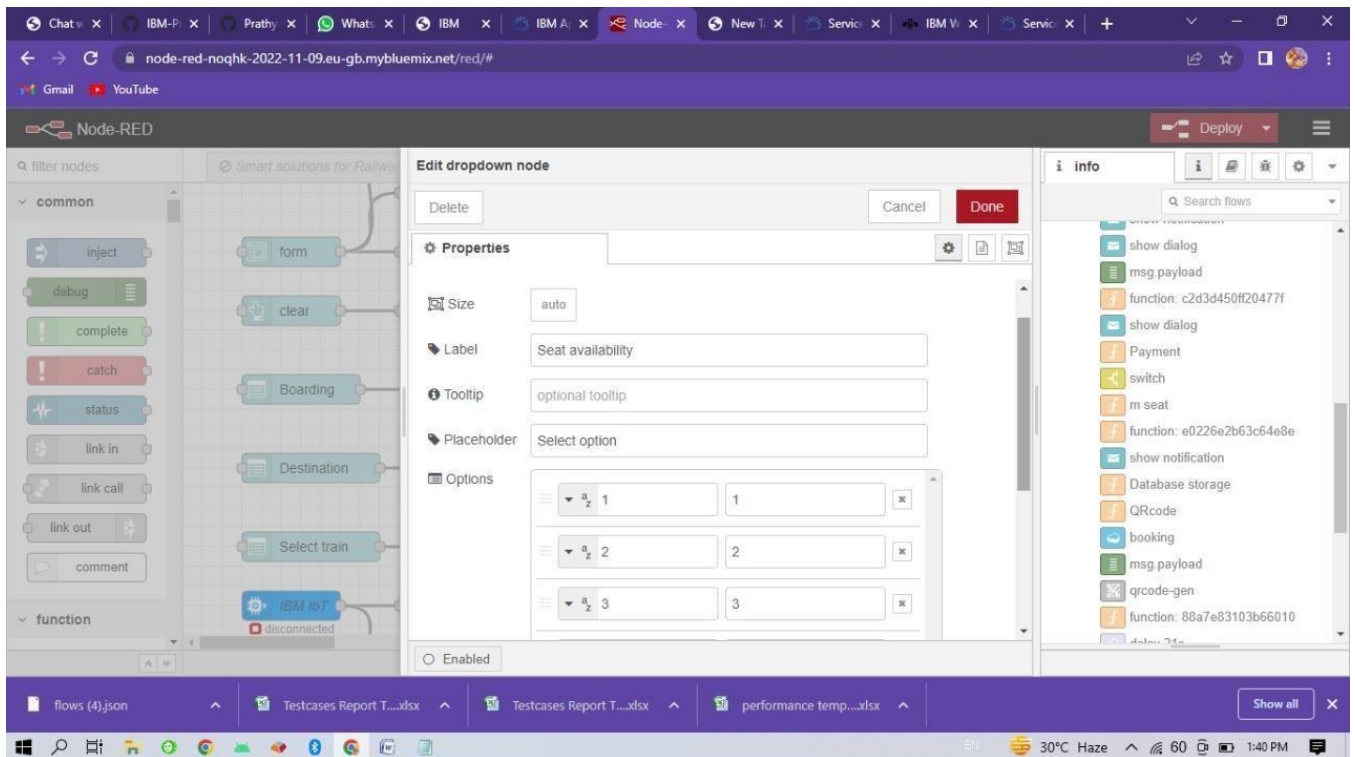
var m=global.get('m') var d=new
Date();
var utc=d.getTime()+(d.getTimezoneOffset()*60000);
var offset=5.5;
newDate=new Date(utc+(3600000*offset));
var n=newDate.toISOString() var
date=n.slice(0,10) var time=n.slice(11,19)
var d1=date+', '+time msg.payload={
  "_id":d1,
  "Name":m.name,
  "Age":m.age,
  "Mobile":m.num,
  "boarding":global.get('b'),
  "destination":global.get('d'),
  "Seat":global.get('s'),
  "Train selection":global.get('t')
}
return msg;

```

FORM DETAILS:



SEAT DROPDOWN BOX:



WEB UI FOR TRAIN BOOKING:

Browser tabs: (1) WhatsApp, Node-RED Dashboard

Address bar: node-red-aapkw-2022-11-18.eu-gb.mybluemix.net/ui/#/0?socketid=0PmOLcS3UMuA4d59AAAM

Booking trains

Choose train

Boarding: MGR Chennai Central

Destination: Tambaram

Seat availability: 2

Select train: MAQ Chennai Exp

Name *
yuvasree

Age *
20

Mobile num *
9225674345

SUBMIT CANCEL

CLEAR

Windows taskbar: Type here to search, 05:01, 18-11-2022