

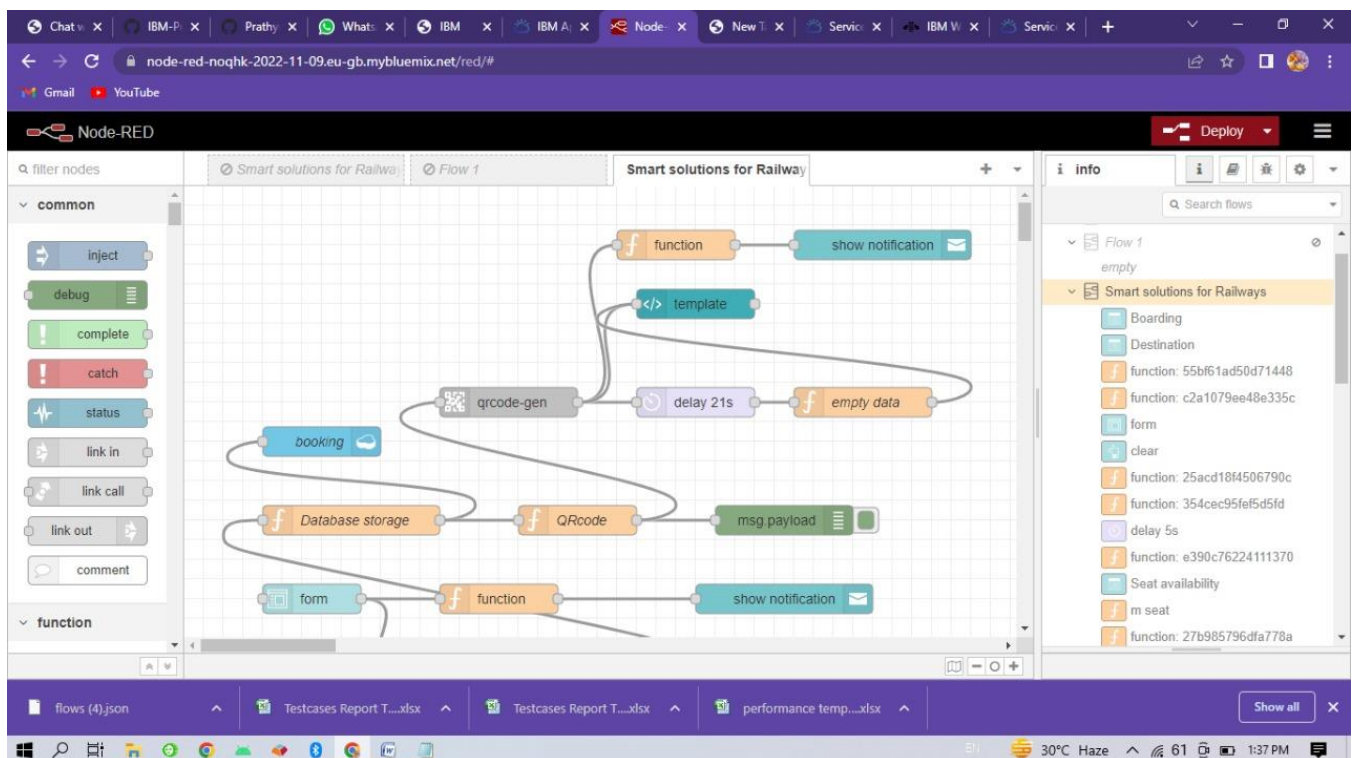
SPRINT-1

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID37886
Project Name	Project – SMART SOLUTIONS FOR RAILWAYS

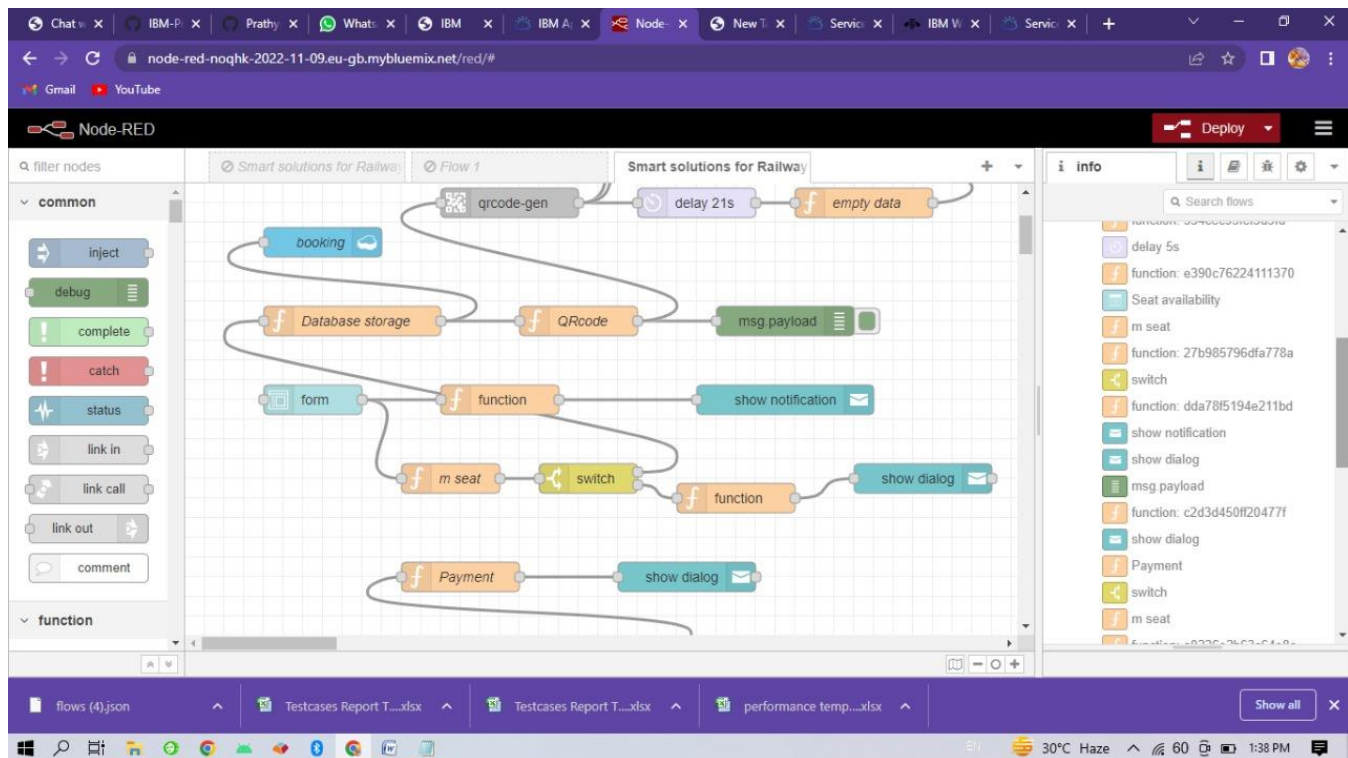
PROCEDURE:

- Step1: 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:

The screenshot shows the Node-RED interface with the 'Edit form node' dialog open. The dialog has a 'Delete' button, 'Cancel', and 'Done' buttons. The 'Properties' tab is active, showing the following configuration:

- Group:** [Booking trains] Choose train
- Size:** auto
- Label:** optional label
- Form elements:**

Label	Name	Type	Required	UiRows	Remove
Name	name	Text	<input checked="" type="checkbox"/>	1	
Age	age	Number	<input checked="" type="checkbox"/>	1	
Mobile num	num	Number	<input checked="" type="checkbox"/>	1	

The 'Enabled' checkbox is checked. The background shows a flow with nodes like 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', 'comment', 'function', 'show dialog', 'msg payload', 'function: c2d3d450f20477f', 'Payment', 'switch', 'm seat', 'function: e0226e2b63c64e8e', 'show notification', 'Database storage', 'QRcode', 'booking', 'msg payload', 'qrcode-gen', 'function: 88a7e83103b66010', and 'delay: 30s'.

SEAT DROPDOWN BOX:

The screenshot shows the Node-RED interface with the 'Edit dropdown node' dialog open. The dialog has a 'Delete' button, 'Cancel', and 'Done' buttons. The 'Properties' tab is active, showing the following configuration:

- Size:** auto
- Label:** Seat availability
- Tooltip:** optional tooltip
- Placeholder:** Select option
- Options:**

Option	Value	Remove
1	1	
2	2	
3	3	

The 'Enabled' checkbox is checked. The background shows a flow with nodes like 'form', 'clear', 'Boarding', 'Destination', 'Select train', 'IBM IoT', and 'disconnected'.

WEB UI FOR TRAIN BOOKING:

DownloadsNodeREDAAOLH2022-11-1Node-RED DashboardNode-RED Dashboardui-map node missing - Go(3) WhatsApp

node-red-aaoih-2022-11-10.eu-gb.mybluemix.net/ui/#/0?socketid=JFp2v_MBqBknpmkqAAAA

Booking trains

Choose train

BoardingChengalpattu

DestinationPerungalattur

Seat availability2

Select trainsemi Fast

Name*ronald issac

Age*20

Mobile num*1234567890

SUBMIT

CANCEL

CLEAR

flows (3).json

Show all

Type here to search

29°C

Partly sunny

13:50

18-11-2022