

PROJECT DEVELOPMENT PHASE - SPRINT 2

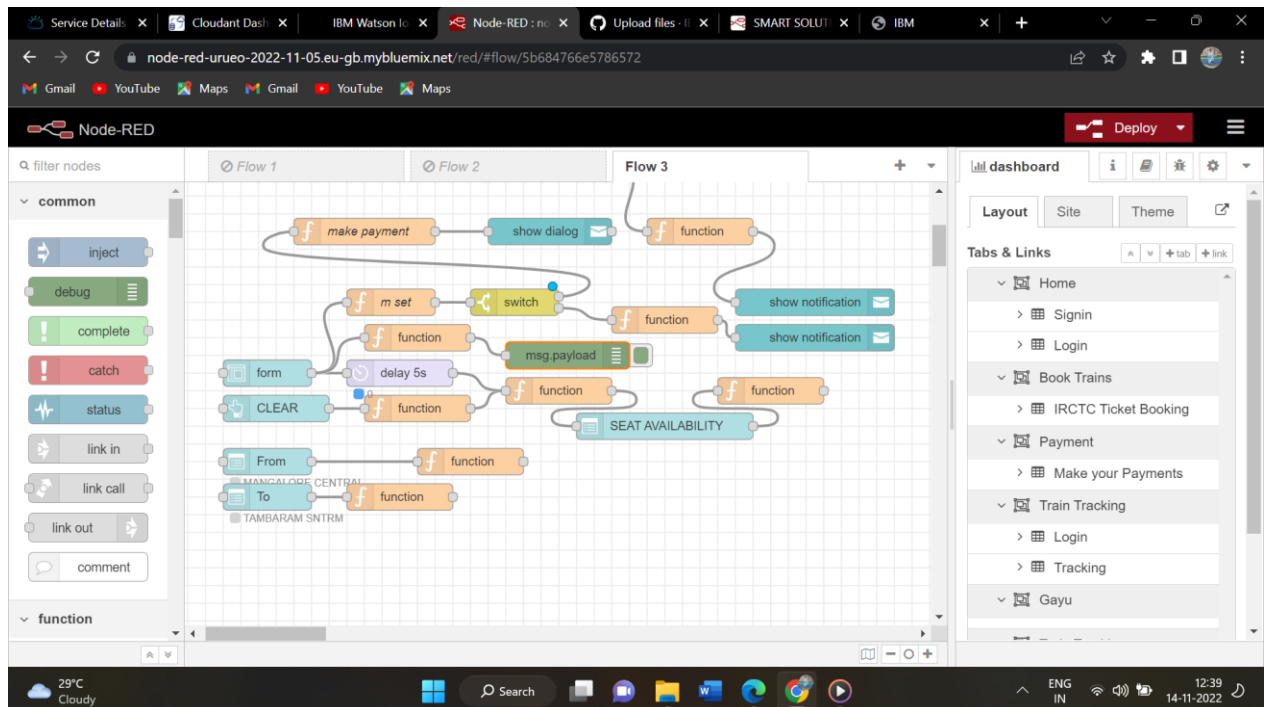
Date	5 NOVEMBER 2022
Team ID	PNT2022TMID42243
Project Name	Smart Solutions for railways

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

The screenshot shows a web browser window with the URL `node-red-urueo-2022-11-05.eu-gb.mybluemix.net/ui/#/1?socketid=yRqDh0fkFaAeNGI-AAAE`. The page has a teal header with a hamburger menu icon and the text "Book Trains". The main content area is dark grey and features a "IRCTC Ticket Booking" form. The form includes dropdown menus for "From" (CHENNAI CENTRAL- MAS) and "To" (COIMBATORE JN- CBE). It also has input fields for "NAME" (Calin), "AGE" (21), "MOBILE NUMBER" (2453545546), and "EMAIL ID" (calincalin@gmail.cc). There are "SUBMIT" and "CANCEL" buttons, a "SEAT" dropdown menu set to "2", and a "CLEAR" button at the bottom. A notification bar at the bottom right says "No new notifications (Focus assist on)". The Windows taskbar at the bottom shows the date as 14-11-2022 and the time as 18:34.

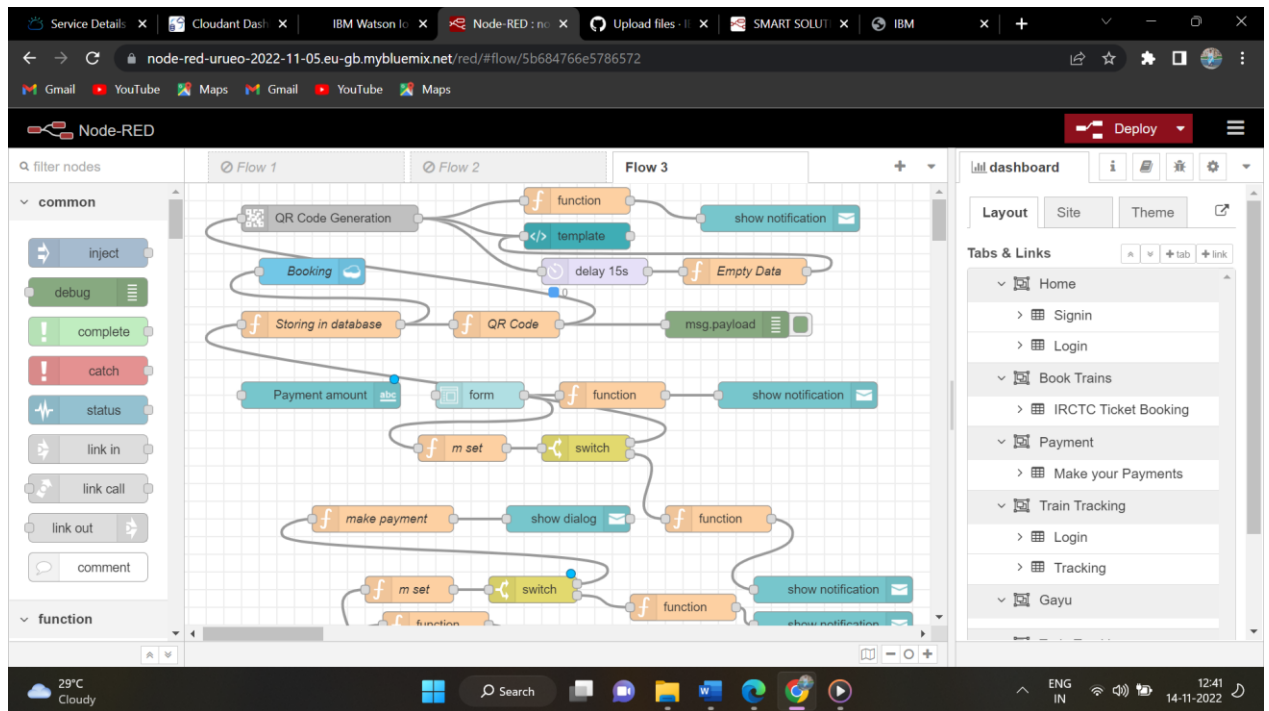
NODE-RED FLOW FOR TICKET BOOKING

The screenshot displays the Node-RED web interface in a browser window. The URL is `node-red-urueo-2022-11-05.eu-gb.mybluemix.net/red/#flow/5b684766e5786572`. The interface includes a left sidebar with "common" and "function" node categories, a central workspace with a flow diagram, and a right sidebar with a "dashboard" tab and a "Tabs & Links" panel. The "Edit function node" dialog is open, showing a JavaScript function designed to check seat availability. The function code is as follows:

```
1 var a = global.get('a')
2 var s = []
3 for (let i=0; i<a.length; i++){
4   s.push(a[i])
5 }
6 if(s.length==0){
7   msg.options=[{"NO SEATS AVAILABLE":0}]
8 }
9 else{
10   msg.option=s
11 }
12 msg.payload = s
13 return msg;
```

The function node is currently set to "On Message" and is enabled. The Windows taskbar at the bottom shows the date as 14-11-2022 and the time as 12:40.

NODE-RED FLOW FOR PAYMENT



IBM CLOUDANT SIGNIN DATABASE

The screenshot shows the IBM Cloudant database interface. The 'booking' collection is selected, and a document is displayed for the timestamp '2022-11-14,18:35:36'. The document contains the following fields:

```
1 {
2   "_id": "2022-11-14,18:35:36",
3   "_rev": "1-737e1f79002375ec2a6790b9daf24d57",
4   "NAME": "Calin",
5   "BOARDING": "CHENNAI CENTRAL- MAS",
6   "DESTINATION": "COIMBATORE JN- CBE",
7   "SEAT": 2
8 }
```

The interface includes a top bar with 'Save Changes' and 'Cancel' buttons, and a right sidebar with 'Upload Attachment', 'Clone Document', and 'Delete' options. The bottom status bar shows the date '14 November 2022'.

USER INTERFACE FOR TICKET CONFIRMATION

