

## PROJECT DEVELOPMENT PHASE

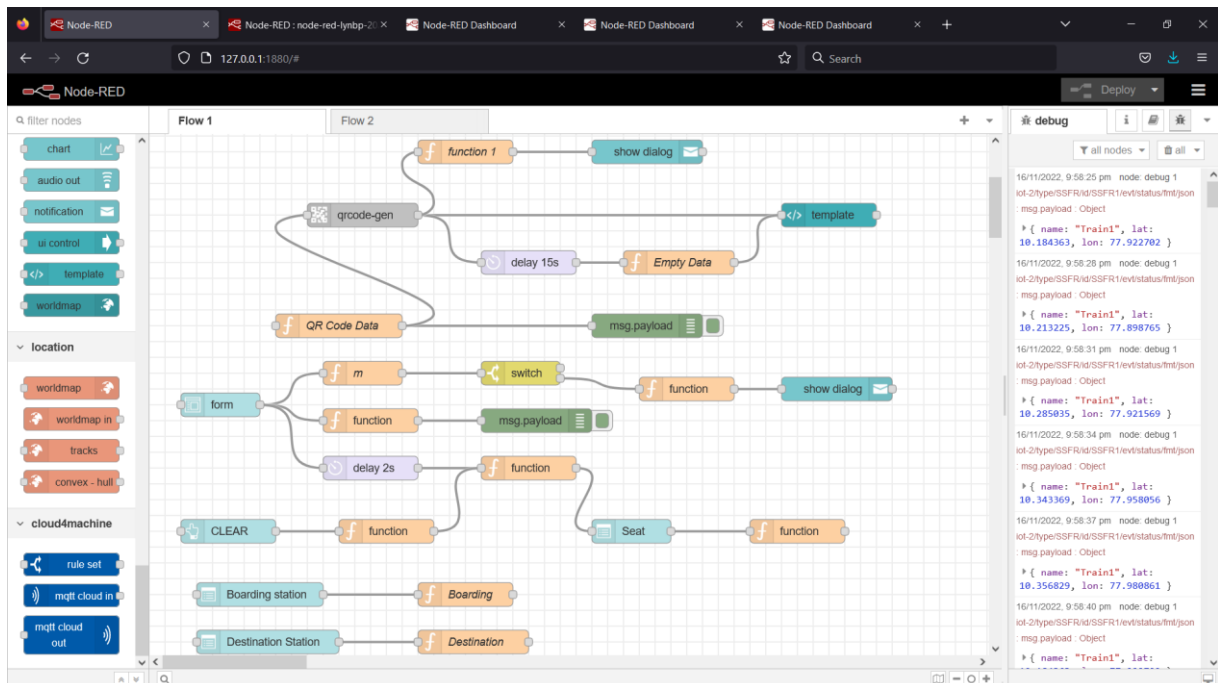
### SPRINT – 4

<b>Date</b>	17 November 2022
<b>Team ID</b>	PNT2022TMID29870
<b>Project</b>	Smart Solutions For Railways

### Objective:

- To generate a unique QR Code for each ticket and to save all the details in Cloudant DB.
- ❖ Using a Node Red flow editor a flow is built to get the details of the passengers.
- ❖ The passengers must give their name, age, mobile no. along with the details of boarding station, destination station and the seat number.
- ❖ When the passenger click the submit button with all required details they will get a Unique QR code with a dialog box information as “Ticket is Generated”.
  - ❖ If the passenger fails to give any correct detail, a dialog box information as “Ticket is not generated” will be displayed and no QR code will be generated.

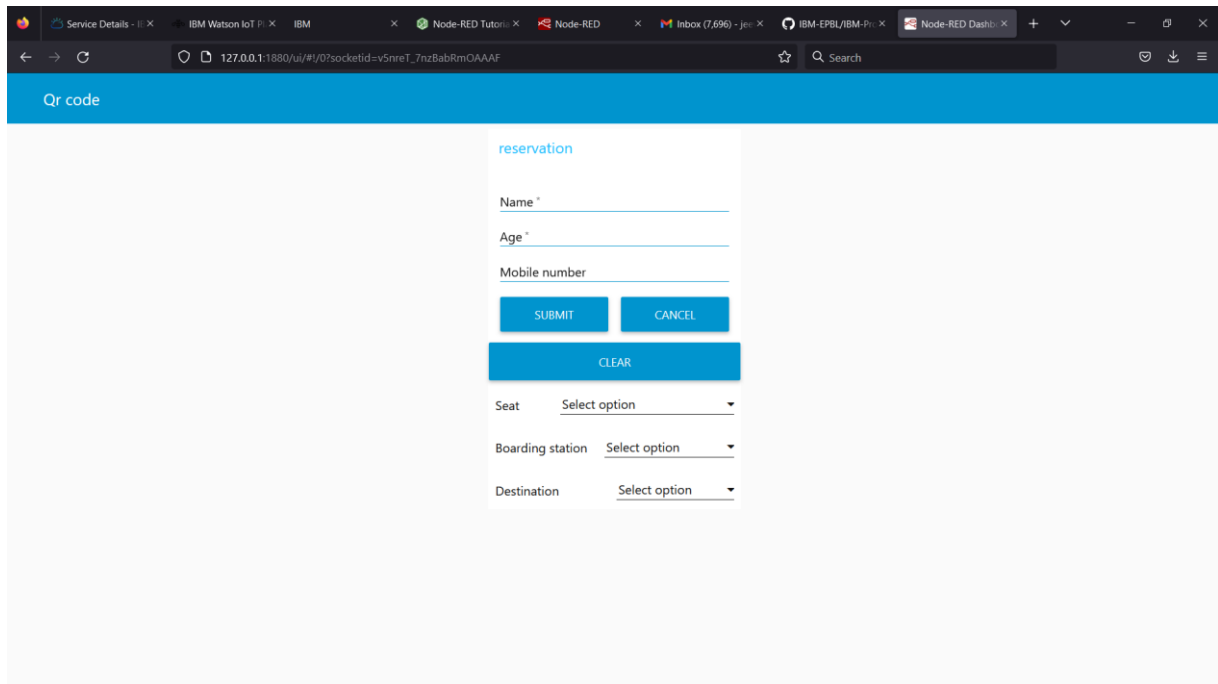
### Node Red Flow:



- Three dropdown boxes are given to get the detail of boarding, destination station and the Seat number of the journey from the passenger.

- To get the name, age and mobile number of the passenger a form node is created with these specifications.
- When the passenger click the submit button the flow goes in two ways.
  - ❖ When the passenger gives the seat number which is not booked by anyone before, ticket will be generated.
  - ❖ If the seat number selected by the passenger is already booked by other passenger or if not enough details is provided the ticket will not be generated.

## UI Testing:



The screenshot shows a web browser window with a dark theme. The address bar displays the URL `127.0.0.1:1880/ui/#/0?socketid=v5nreT_7nzBabRmOAAAF`. The browser tabs include 'Service Details', 'IBM Watson IoT Platform', 'IBM', 'Node-RED Tutorial', 'Node-RED', 'Inbox (7,696)', 'IBM-EPBL/IBM-Platform', and 'Node-RED Dashboard'. The main content area has a blue header with the text 'Qr code'. Below the header, there is a white form titled 'reservation'. The form contains the following fields and buttons:

- Name \***: A text input field.
- Age \***: A text input field.
- Mobile number**: A text input field.
- SUBMIT**: A blue button.
- CANCEL**: A blue button.
- CLEAR**: A blue button.
- Seat**: A dropdown menu with the text 'Select option'.
- Boarding station**: A dropdown menu with the text 'Select option'.
- Destination**: A dropdown menu with the text 'Select option'.

- In node red service two groups are created to have two tabs like one for tracking and other one for QR generation.