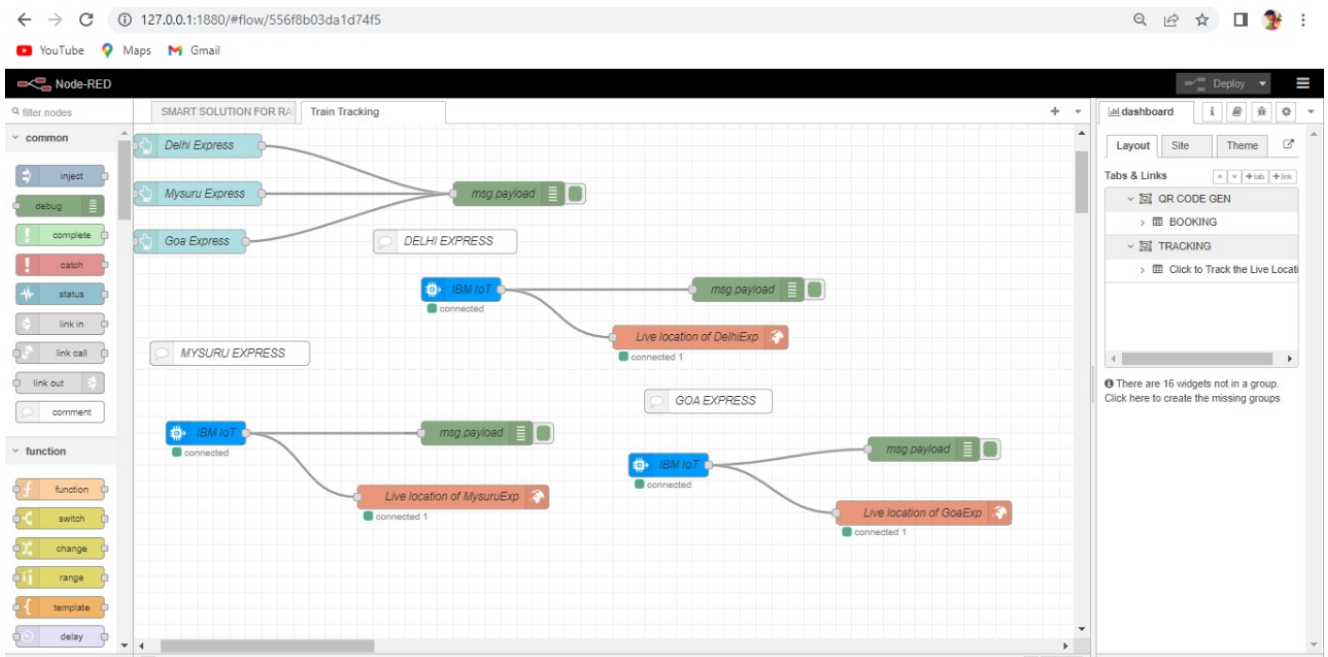


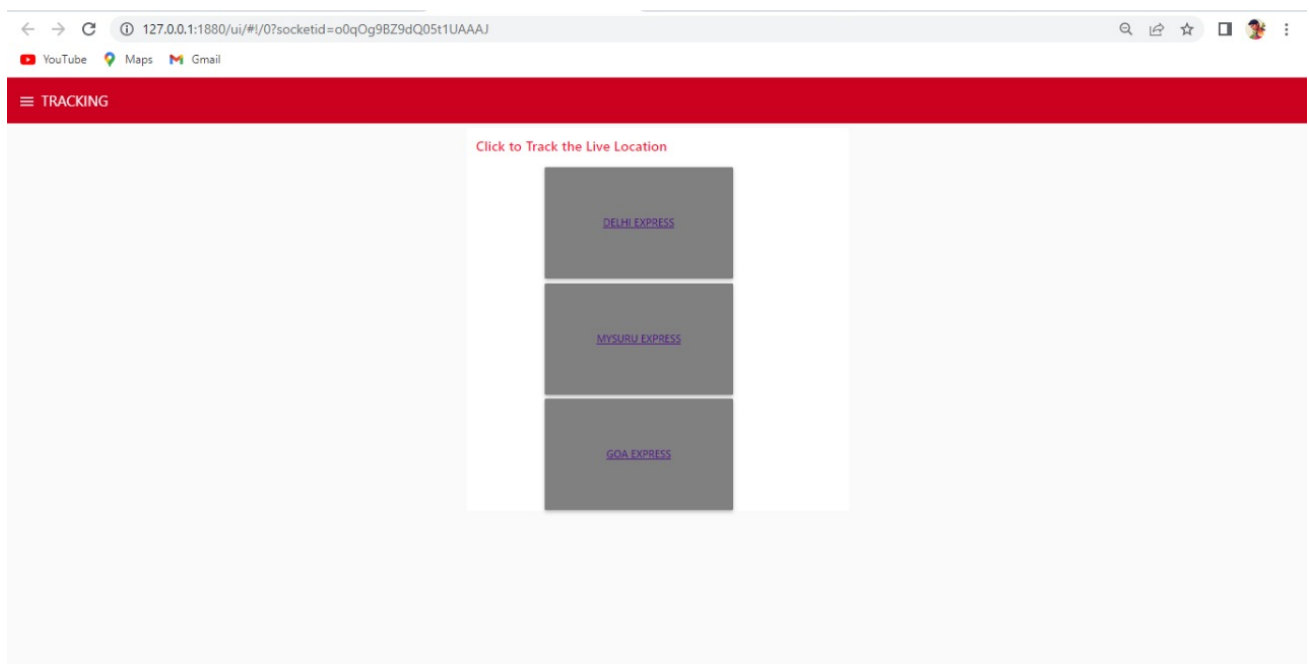
# GPS Tracking

Team ID	PNT2022TMID037828
Project name	Project – Smart Solutions for Railways

## Node RED flows:



## Creating Web UI for Tracking:



## IBM Watson IoT Device:

The screenshot shows the IBM Watson IoT Platform interface. At the top, the browser address bar displays the URL: `njd5v1.internetofthings.ibmcloud.com/dashboard/devices/browse`. The page header includes the IBM Watson IoT Platform logo and a user profile for `premkumarsolomonr@gmail.com` with ID `njd5v1`. A navigation bar contains links for `Browse`, `Action`, `Device Types`, and `Interfaces`. A search bar labeled `Search by Device ID` is present. A `Device Simulator` toggle is set to `ON`. Below the navigation bar, a table lists devices. The first device is `1234`, status `Disconnected`. The second device is `Delhi_Express`, status `Connected`, and is highlighted in blue. Below the device list, the `Delhi_Express` details are shown, with the `Recent Events` tab selected. The events are displayed in a table with columns: `Event`, `Value`, `Format`, and `Last Received`. The events are JSON objects representing location data. A simulation status box at the bottom right indicates `1 Simulation running`.

Event	Value	Format	Last Received
status	<code>{"name":"Delhi Express","lat":13.728799,"lon":8...</code>	json	a few seconds ago
status	<code>{"name":"Delhi Express","lat":13.515254,"lon":8...</code>	json	a few seconds ago
status	<code>{"name":"Delhi Express","lat":13.344279,"lon":8...</code>	json	a few seconds ago
status	<code>{"name":"Delhi Express","lat":28.302041,"lon":7...</code>	json	a few seconds ago
status	<code>{"name":"Delhi Express","lat":27.505914,"lon":7...</code>	json	a few seconds ago

The screenshot displays the IBM Watson IoT Platform interface. At the top, the browser address bar shows the URL `njd5v1.internetofthings.ibmcloud.com/dashboard/devices/browse`. The dashboard header includes the IBM Watson IoT Platform logo, a user profile for `premkumarsolomonr@gmail.com` with ID `njd5v1`, and an `Add Device` button.

The main content area features a table of devices with columns for selection, name, status, type, location, last update, and owner. Three devices are listed: `Delhi_Express` (Disconnected), `Goa_Express` (Disconnected), and `Mysuru_Express` (Connected). The `Mysuru_Express` device is selected, and its details are shown in a modal window.

The device details modal includes tabs for `Identity`, `Device Information`, `Recent Events` (active), `State`, and `Logs`. A message states: "The recent events listed show the live stream of data that is coming and going from this device." Below this is a table of recent events.

Event	Value	Format	Last Received
status	<code>{"name":"Mysuru SF Express","lat":12.655239,"l...</code>	json	a few seconds ago
status	<code>{"name":"Mysuru SF Express","lat":12.489034,"l...</code>	json	a few seconds ago
status	<code>{"name":"Mysuru SF Express","lat":12.344187,"l...</code>	json	a few seconds ago
status	<code>{"name":"Mysuru SF Express","lat":12.226105,"l...</code>	json	a few seconds ago
status	<code>{"name":"Mysuru SF Express","lat":12.134824,"l...</code>	json	a few seconds ago

A notification at the bottom right indicates "1 Simulation running".

← → ↻ njd5v1.internetofthings.ibmcloud.com/dashboard/devices/browse

YouTube Maps Gmail

IBM Watson IoT Platform premkumarsolomonr@gmail.com ID: njd5v1

Browse Action Device Types Interfaces Add Device

Delhi\_Express Disconnected nodeMCU Device Nov 22, 2022 8:21 PM premkumarsolomonr@gmail.com

Goa\_Express Connected nodeMCU Device Nov 22, 2022 8:26 PM premkumarsolomonr@gmail.com

Mysuru\_Express Disconnected nodeMCU Device Nov 22, 2022 8:25 PM

1 Simulation running

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"name":"Goa Express","lat":15.296378,"lon":74...	json	a few seconds ago
status	{"name":"Goa Express","lat":15.2828,"lon":74.1...	json	a few seconds ago
status	{"name":"Goa Express","lat":15.276839,"lon":74...	json	a few seconds ago
status	{"name":"Goa Express","lat":15.283131,"lon":74...	json	a few seconds ago
status	{"name":"Goa Express","lat":15.314922,"lon":74...	json	a few seconds ago

## Train Tracking in World Map:

← → ↻ 127.0.0.1:1880/DelhiExp/

YouTube Maps Gmail

Live location of DelhiExp

Leaflet | Map data © OpenStreetMap contributors

