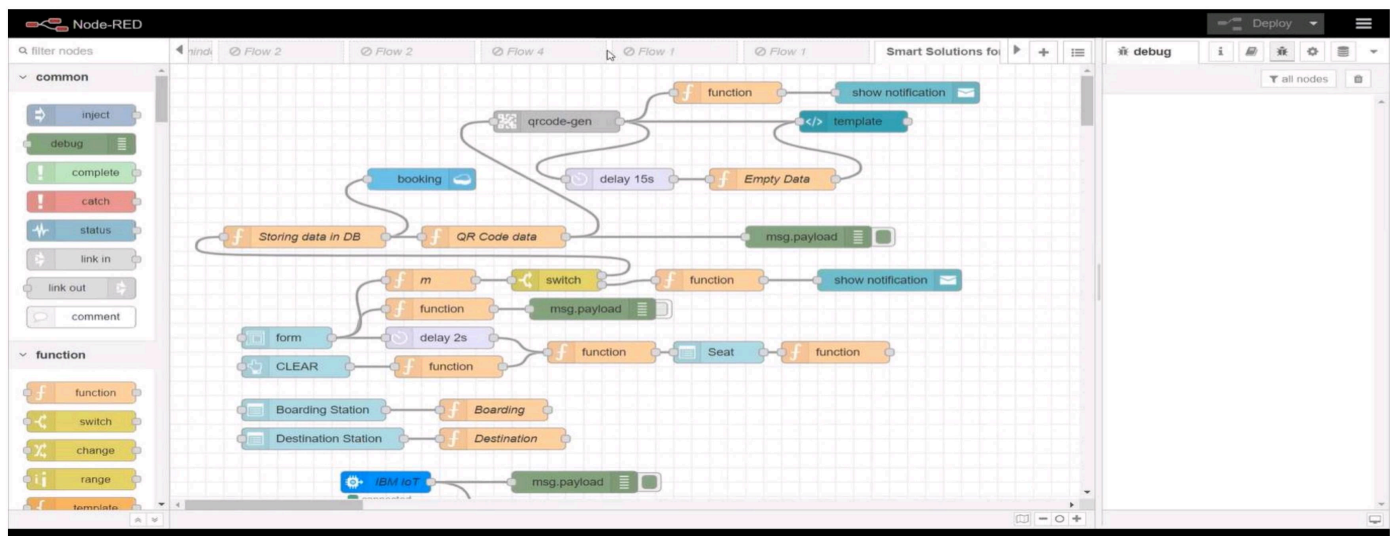


Develop The Web Application Using Node-RED

Date	15 October 2022
Team ID	PNT2022TM30650
Project Name	Smart Solutions for Railways
Maximum Marks	4 Marks

STEP 1:



STEP 2:

The screenshot displays the Node-RED web interface. On the left, a sidebar contains a 'filter nodes' search bar and a 'dashboard' category with various widgets like button, dropdown, switch, slider, numeric, text input, date picker, colour picker, form, text, gauge, and chart. The main workspace shows a flow diagram with nodes including 'Storing data in DB', 'QR Code', 'm', 'function', 'delay 2s', 'CLEAR', 'Boarding Station', and 'Destination Station'. On the right, the 'Edit function node' dialog is open for the 'Storing data in DB' node. The 'Function' tab is selected, showing the following JavaScript code:

```
1 var m = global.get('m')
2 var d = new Date();
3 var utc = d.getTime() + (d.getTimezoneOffset() * 60000);
4 var offset = 5.5;
5 newDate = new Date(utc + (3600000*offset));
6 var n=newDate.toISOString()
7 var date = n.slice(0,10)
8 var time = n.slice(11,19)
9 var d1 = date+' '+time
10 msg.payload = {
11   "id" : d1,
12   "Name" : m.name,
13   "Age" : m.age,
14   "Mobile" : m.no,
15   "Boarding" : global.get('b'),
16   "Destination" : global.get('d'),
17   "Seat" : global.get('s')
18 }
19 return msg;
```

Below the code, the 'Outputs' section shows '1' selected. On the far right, a 'help' panel is visible, showing a search bar and a list of nodes including 'function'. The 'function' node is selected, and its description is displayed:

function

A JavaScript function to run against the messages being received by the node.

The messages are passed in as a JavaScript object called `msg`.

By convention it will have a `msg.payload` property containing the body of the message.

The function is expected to return a message object (or multiple message objects), but can choose to return nothing in order to halt a flow.

The **Setup** tab contains code that will be run whenever the node is started. The **Close** tab contains code that will be run when the node is stopped.

If an promise object is returned from the setup code, Inuit message procession starts after its

STEP 3:

← →

📊

🗄️

🔍

📄

👤

🔊

📖

🏠

Log Out

Databases

Database name ▾

Create Database

{ } JSON

📖

🔔

Your Databases

Name	Size	# of Docs	Partitioned	Actions
accessdata	1.3 KB	163	No	🔍 🔒 🗑️
bookings	26 bytes	0 ⓘ	No	🔍 🔒 🗑️
child	0.8 KB	9 ⓘ	No	🔍 🔒 🗑️
data	157 bytes	1	No	🔍 🔒 🗑️
externship	2.4 KB	27	No	🔍 🔒 🗑️
logindata	50 bytes	2 ⓘ	No	🔍 🔒 🗑️
medicine	495 bytes	27	No	🔍 🔒 🗑️
nodered	209.5 KB	4	No	🔍 🔒 🗑️
sample	0.6 KB	2 ⓘ	No	🔍 🔒 🗑️
sample1	8.1 KB	79 ⓘ	No	🔍 🔒 🗑️

Showing 1–14 of 14 databases. Databases per page 20 ▾ « 1 »