

Project Development Phase Sprint-2

Team ID	PNT2022TMID35915
Project Name	Smart Solutions for Railways

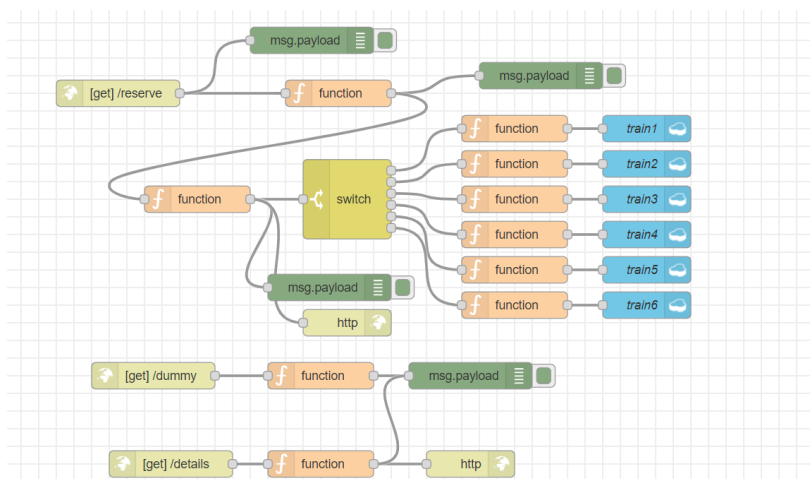
Updates:

- The app Background made elegant
- The User can check ticket availability for a particular train
- The User can reserve a ticket by entering passenger details
- Added Back and Home buttons from all pages
- Support for 3 stations Chennai, Bangalore, Salem

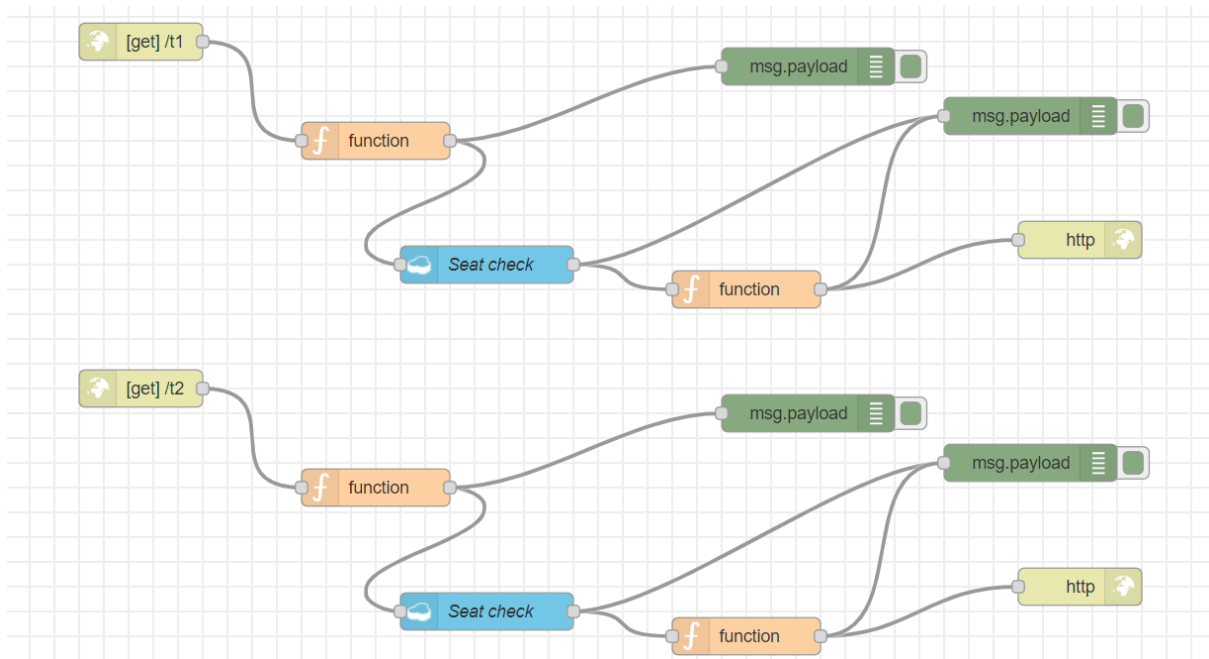
Database before test:

Your Databases				
Name	Size	# of Docs	Partitioned	Actions
new_reg	1.0 KB	7	No	
noderefdsmrr20221111	62.9 KB	4	No	
reg	0 bytes	0	No	
register	0 bytes	0	No	
t12027	25 bytes	1	No	
t12028	136 bytes	2	No	
t12213	27 bytes	1	No	
t12214	245 bytes	3	No	
t12759	29 bytes	1	No	
t12760	27 bytes	1	No	

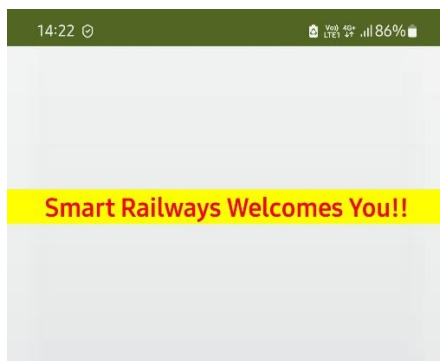
Nodes in Node red:



Seat availability nodes:



Screen 1 of Application:



Test Cases

Test Case 1:

User Login with Correct Information

13:57 13:57 37%

Login

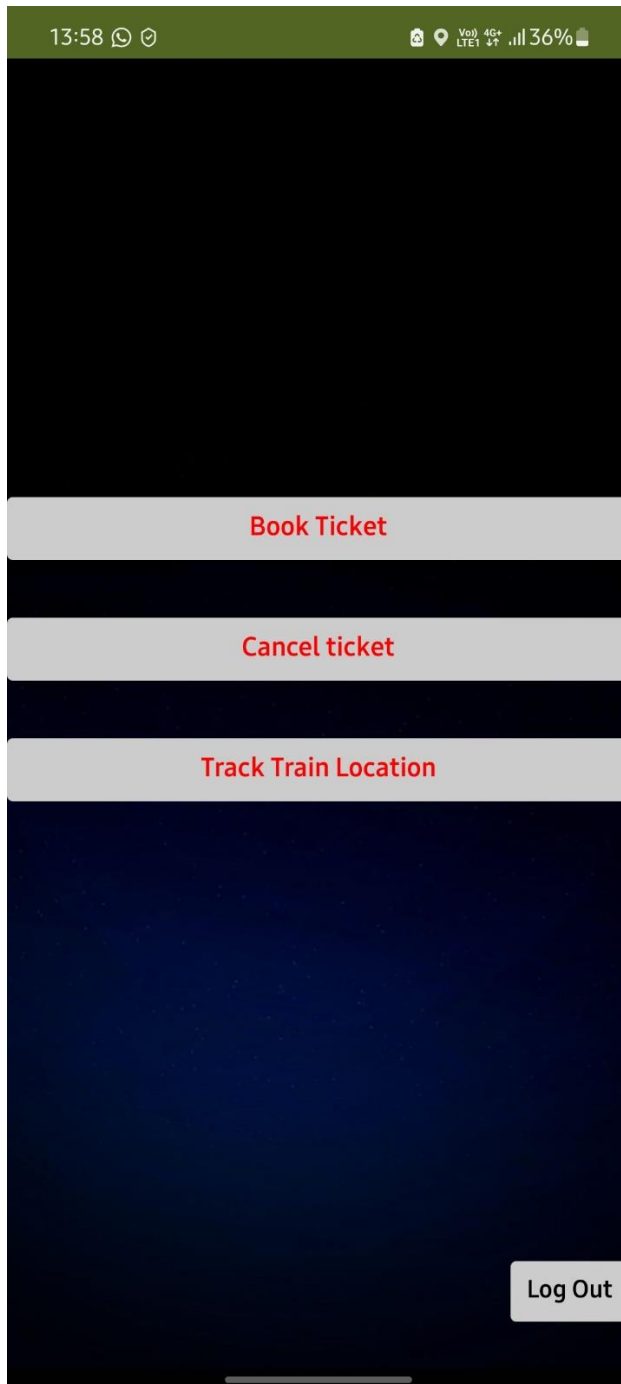
E-Mail Id resolomonh@gmail.com

Password

Login

New User?? Sign Up

Page Viewed after login:



Node red Output during login:

```
11/14/2022, 1:57:32 PM node: d057d04e2424e4e1
msg.payload : Object
  ▶ { E-Mail Id:
    "denickesolomonh@gmail.com",
    Password: "denicke123" }
```

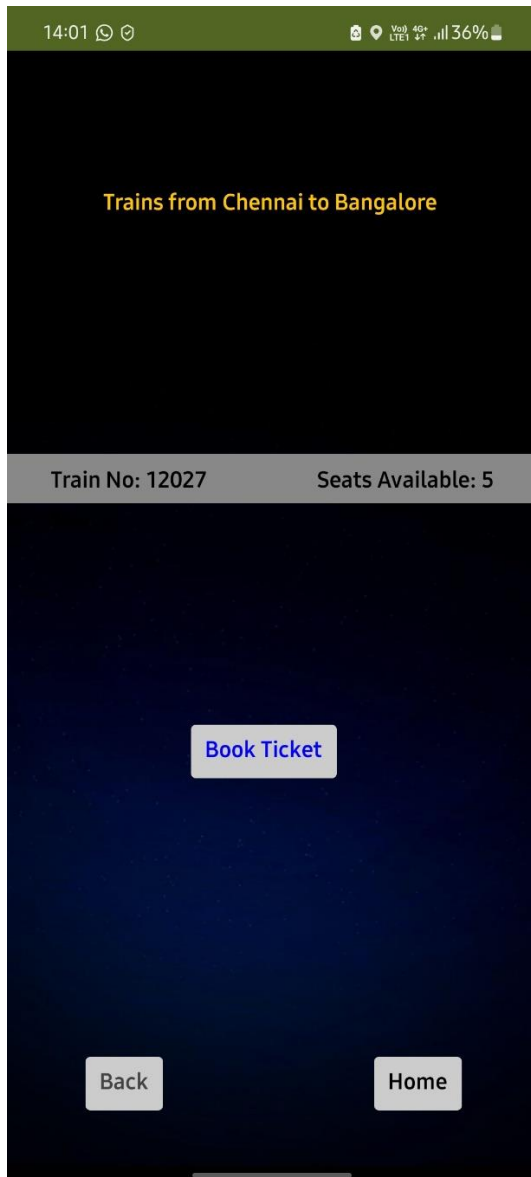
Test Case 2:

User clicks on Book ticket and Enters Boarding and destination Station:

- i) Boarding and Destination Stations are different:

The screenshot shows a mobile application interface for booking train tickets. At the top, there is a status bar with the time 13:59, signal strength, and battery level at 36%. Below the status bar is a dark blue header with a white 'Back' button in the top left corner. The main content area has a dark blue background with the title 'Journey Details' in white. Below the title, there are two rows of input fields. The first row is labeled 'Choose Boarding Station' in red text, and the second row is labeled 'Choose Destination Station' in red text. To the right of each label is a white input field containing the text 'Chennai' and 'Bangalore' respectively. At the bottom of the form, there is a white button labeled 'Search Trains' in blue text. Below the button is a large, empty dark blue rectangular area.

Page Viewed on Clicking Search Trains:



Node Red Output for checking seat availability:

```
11/14/2022, 2:01:01 PM node: 76e1c57931e77cc1  
msg.payload : Object
```

```
▶ { t1: "1" }
```

```
11/14/2022, 2:01:01 PM node: 4623a851742343dc  
msg.payload : array[1]
```

```
▶ [ object ]
```

```
11/14/2022, 2:01:01 PM node: 4623a851742343dc  
msg.payload : number
```

```
5
```

ii) Boarding and Destination Stations are same:

Back

Journey Details

Choose Boarding Station

Salem

Choose Destination Station

Salem

Search Trains

Notification Received:

Back

Journey Details

Choose Boarding Station

Salem

Choose Destination

Invalid Selection

Salem

Search Trains

Test Case 3:

Booking Ticket by pressing book ticket on the list of trains page:

14:04 36%

Enter Passenger Details

Passenger Name Denicke

Age 19





Gender Male

Aadhar Number 123456



Back Submit

Page viewed:

14:06



Volte 4G+
LTE1 ↓↑

 36%

Review

Train Number

12027

Passenger Name

Denicke

Age

25

Gender

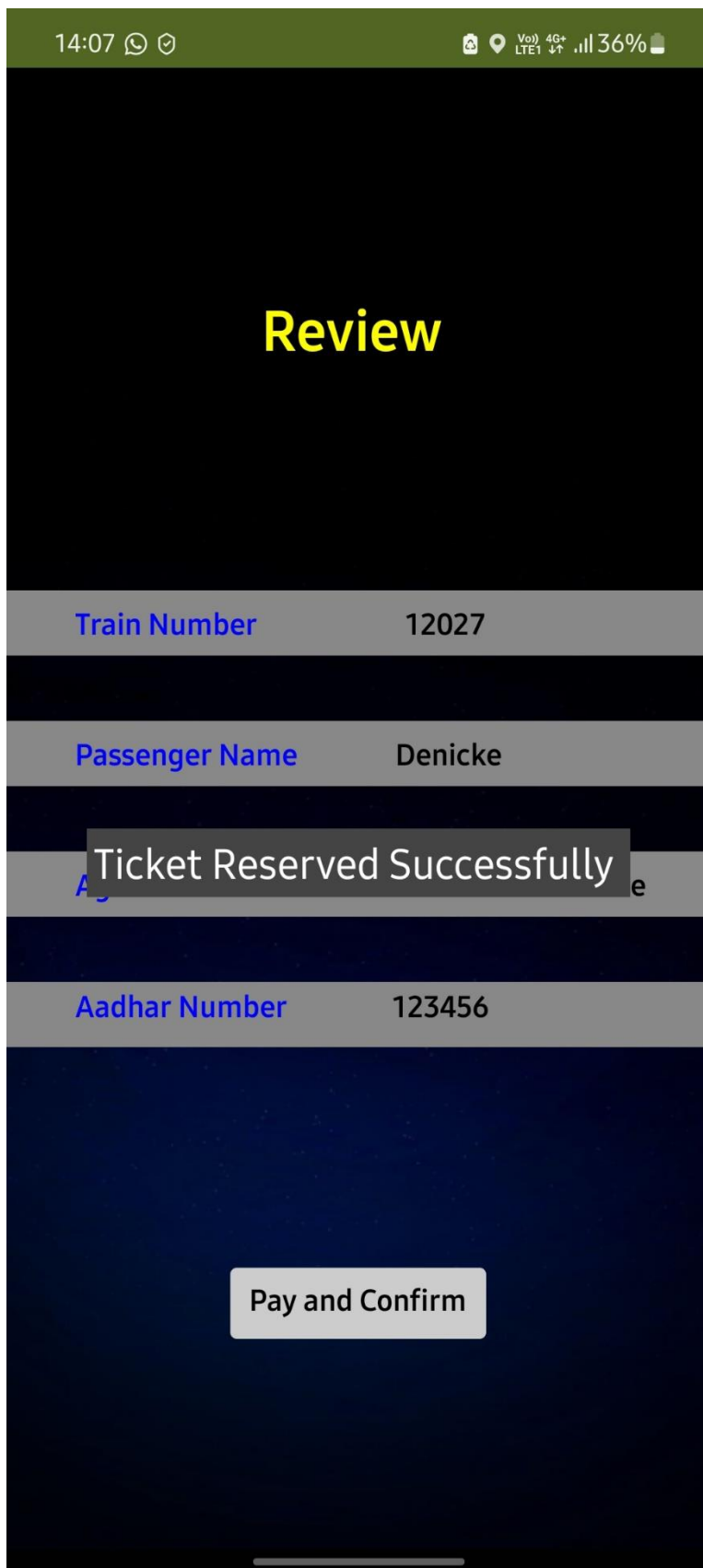
Male

Aadhar Number

123456

Pay and Confirm

Notification received on successful reservation:



Database Updated:

Database name

Create Database

{ } JSON

Your Databases

Name	Size	# of Docs	Partitioned	Actions
new_reg	1.0 KB	7	No	<div></div>
noderedfsmrr20221111	63.0 KB	4	No	<div></div>
reg	0 bytes	0	No	<div></div>
register	0 bytes	0	No	<div></div>
t12027	135 bytes	2	No	<div></div>
t12028	136 bytes	2	No	<div></div>
t12213	27 bytes	1	No	<div></div>
t12214	245 bytes	3	No	<div></div>
t12759	29 bytes	1	No	<div></div>
t12760	27 bytes	1	No	<div></div>

Database Document of Ticket details:

dd83a32b-f090-43db-9ae5-cca71fd0d72b-bluemix.cloudant.com/dashboard.html#database/t12027/4a1b60684d1e885dbb3bd18ee6f8546c

t12027 > 4a1b60684d1e885dbb3bd18ee6f8546c

{ } JSON

Save Changes

Cancel

Upload Attachment

Clone Document

Delete

1

2

3

4

5

6

7

8

9

```
1 {
2   "_id": "4a1b60684d1e885dbb3bd18ee6f8546c",
3   "_rev": "1-5cf48073ceccf9c713058482674310a6",
4   "E-Mail Id": "denickesolomonh@gmail.com",
5   "Name": "Denicke",
6   "Age": "25",
7   "Gender": "Male",
8   "Aadhar Number": "123456"
9 }
```

Log Out

Node red Output during reservation:

```
11/14/2022, 2:06:00 PM  node: 302dfcd71acf3265
msg.payload : Object
  ▶ { dummy: "12027" }

11/14/2022, 2:06:20 PM  node: a915a4ff15cdc2b0
msg.payload : Object
  ▶ { reserve: ["Denicke", "25",
"Male", "123..." }

11/14/2022, 2:06:20 PM  node: 8087c29df028dd18
msg.payload : Object
  ▶ { T_no: "12027", E-Mail Id:
"denickesolomonh@gmail.com", Name:
"Denicke", Age: "25", Gender: "Male"
... }

11/14/2022, 2:06:20 PM  node: 2127b83af19ce5c8
msg.payload : string[5]
  "12027"

11/14/2022, 2:06:22 PM  node: 302dfcd71acf3265
msg.payload : Object
  ▶ { Train Number: "12027", Name:
"Denicke", Age: "25", Gender: "Male",
Aadhar: "123456" }
```