

## Development of a Travel Ticketing Web Application

**Project Abstract:** This case study outlines the development of a travel ticketing web application designed to streamline the process of booking travel tickets for multiple modes of transportation, including trains, buses, and flights. The platform aims to enhance user experience by providing a one-stop solution for comparing prices, scheduling options, and managing bookings.

**Objective:** To develop a comprehensive travel ticketing system that offers ease of use, secure transactions, and efficient management of travel plans, thereby improving the travel experience for users and operational efficiency for service providers.

### Modules and Implementation:

#### 1. User Module:

- **Registration/Login:** Allows users to create accounts and log in to access personalized services.
- **Ticket Search:** Users can search for tickets based on travel mode, destination, dates, and other preferences.
- **Booking System:** Enables users to book tickets and complete payments.

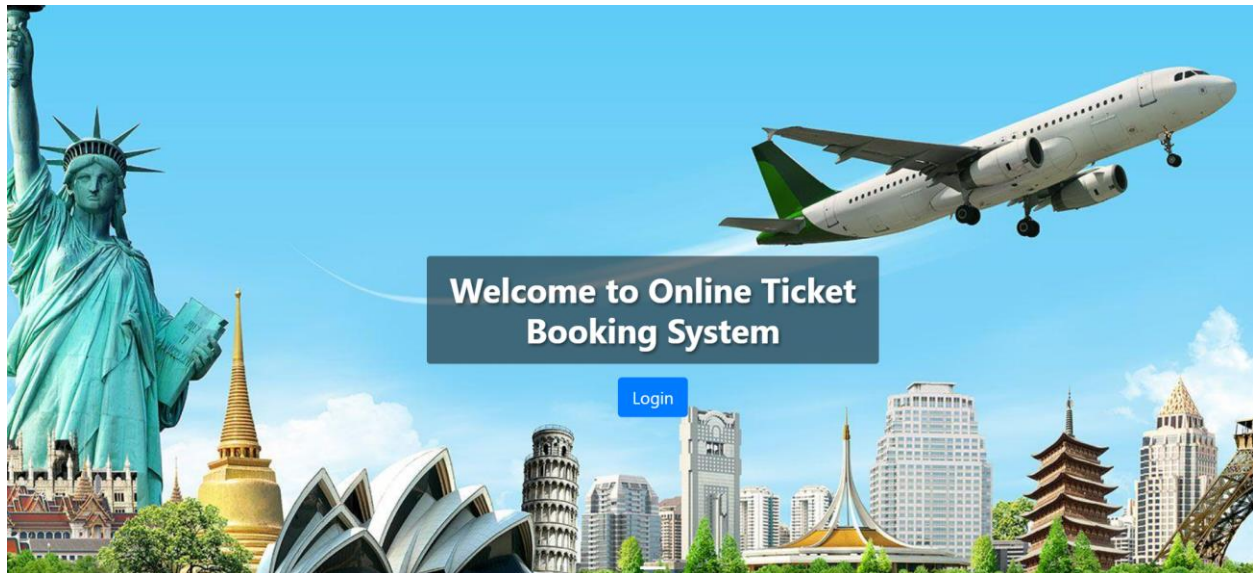
#### 2. Transport Provider Module:

- **Login:** Secure login for transport providers.
- **Booking Management:** View and manage bookings made by users, process cancellations, and adjustments.

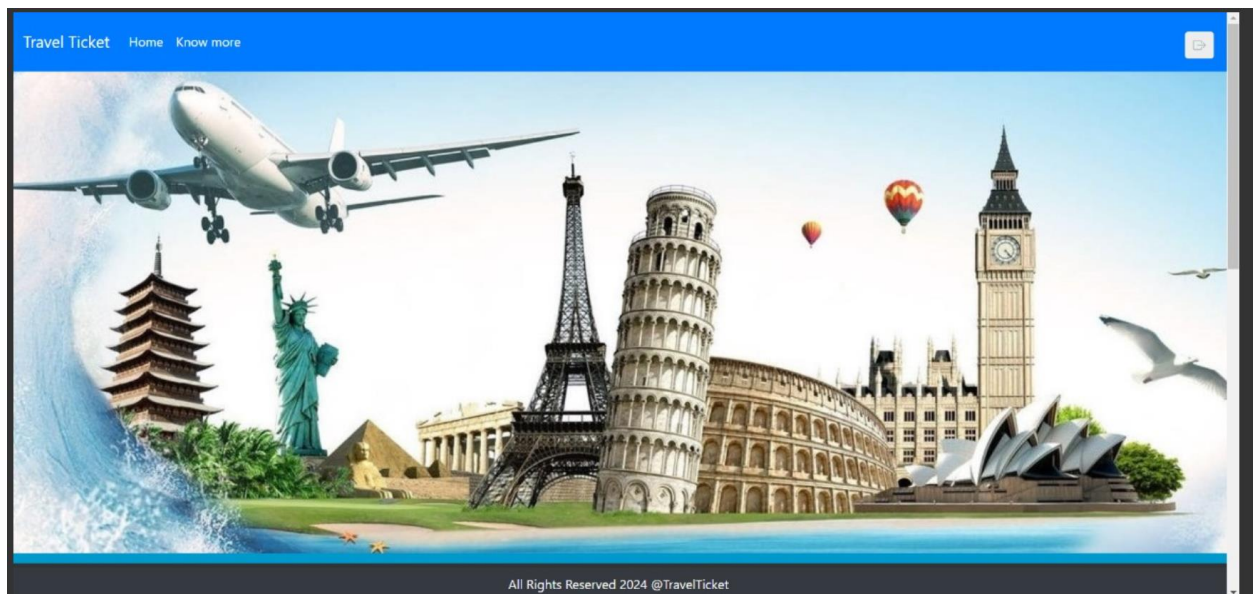
#### 3. Admin Module:

- **Dashboard:** Provides an overview of all platform activities, including bookings, user interactions, and provider updates.
- **User and Provider Management:** Admins can oversee accounts, ensuring proper access and resolving conflicts.
- **Analytics and Reporting:** Generate reports on ticket sales, user activity, and service provider performance.

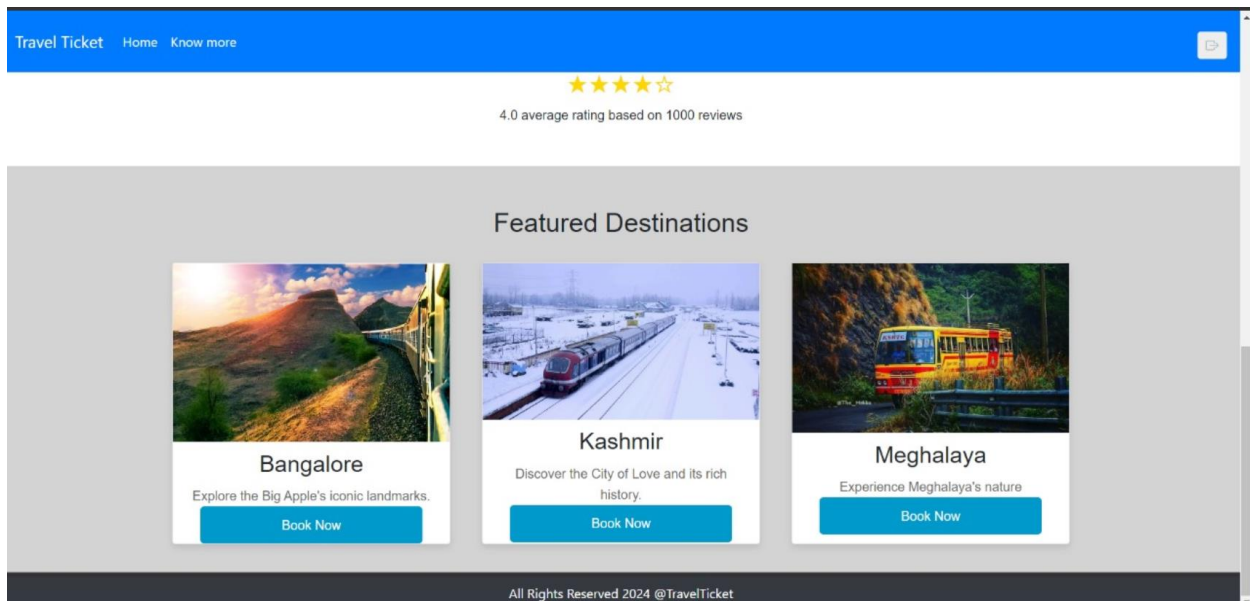
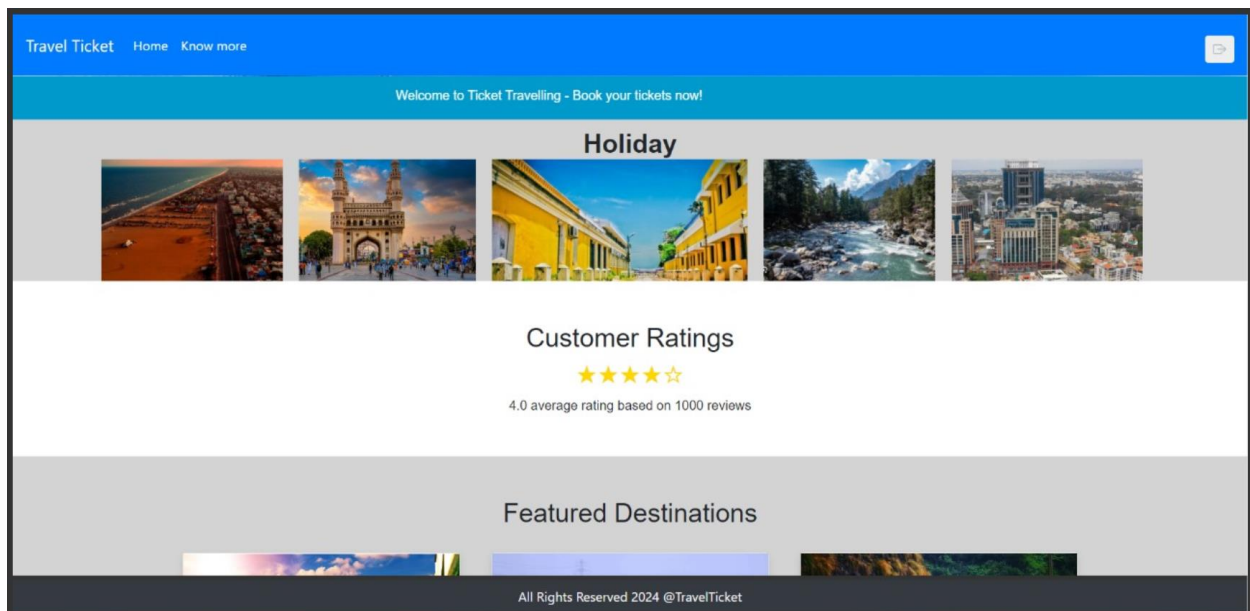
## Landing Page



## Know More



This is a static page where user can find about our page and few destinations.



When user clicks on book now it will be redirected to bus and train search pages.



## Bus Search

Source

Destination

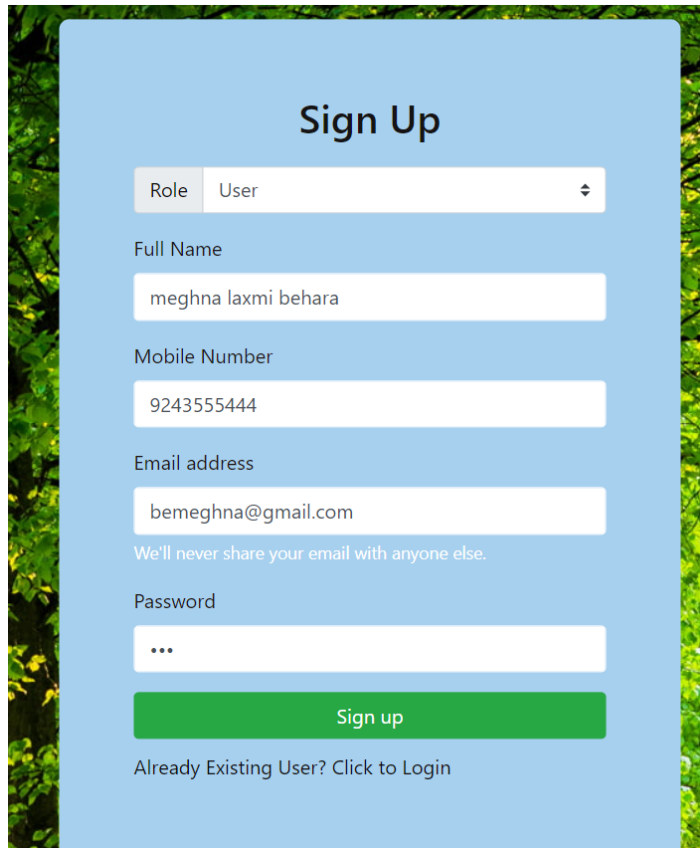
Arrival Date

Departure Date

Search Buses

## Login/Register Page

Here the “user” logs in User Role.

A light blue rectangular form titled "Sign Up" is centered on a background of green foliage. The form contains a role selection dropdown set to "User", and input fields for "Full Name" (meghna laxmi behara), "Mobile Number" (9243555444), "Email address" (bemeghna@gmail.com), and "Password" (masked with three dots). A green "Sign up" button is at the bottom, with a link "Already Existing User? Click to Login" below it.

**Sign Up**

Role User

Full Name  
meghna laxmi behara

Mobile Number  
9243555444

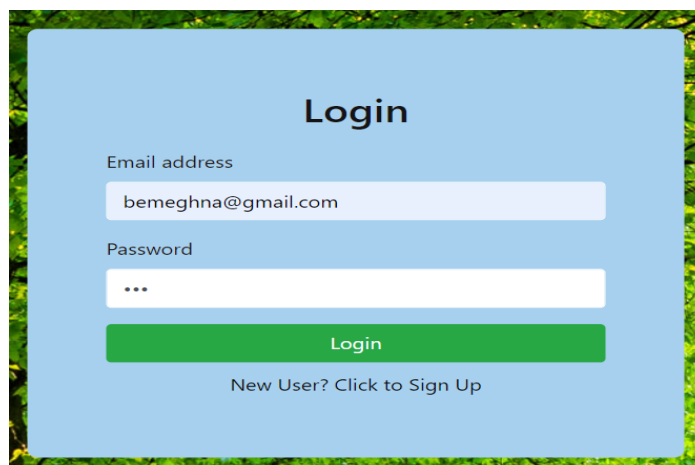
Email address  
bemeghna@gmail.com

We'll never share your email with anyone else.

Password  
...

**Sign up**

[Already Existing User? Click to Login](#)

A light blue rectangular form titled "Login" is centered on a background of green foliage. The form contains input fields for "Email address" (bemeghna@gmail.com) and "Password" (masked with three dots). A green "Login" button is at the bottom, with a link "New User? Click to Sign Up" below it.

**Login**

Email address  
bemeghna@gmail.com

Password  
...

**Login**

[New User? Click to Sign Up](#)

After successful Login, it will redirect to Train Search.

## Train Search

Travel Ticket

Home

Features

Train

Buses

Train Search

Source

Destination

Arrival Date

dd-mm-yyyy

Departure Date

dd-mm-yyyy

Search Trains

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## Train Search Results Page

Train Search

Source

Howrah

Destination

Secundrabad

Arrival Date

21-04-2024

Departure Date

23-04-2024

Search Trains

Available Trains

Train Name	Fare	From	To	Arrival Date	Departure Date	Action
Howrah Express	240	Howrah	Secundrabad	2024-04-21	2024-04-23	Book

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When user clicks on Book, it redirects to add booking Page,

## Add Booking Page

Here user needs to enter his details.

### Add Booking

Full Name:

Mobile Number:

Email:

Add Booking

## Add Booking Results Page where user values are given.

### Add Booking

Full Name:

Nithya

Mobile Number:

9848526543

Email:

nithya@gmail.com

Add Booking

After successful booking we get an alert and it redirects to Booking Details Page.


localhost:4200 says

booking done successfully

OK

## Booking Details Result Page

[Travel Ticket](#)
[Home](#)
[Features](#)



## Booking Details

Id	FullName	MobileNumber	Email	Source	Destination	ArrivalDate	DepartureDate	TrainName	TrainFare		
1	Nithya	9848526543	nithya@gmail.com	Howrah	Secundrabad	2024-04-21	2024-04-23	Howrah Express	240	<button>Print</button>	<button>Update Booking</button>

If User wants to update his details, click on update booking button.

### Booking Details Results (Updating)

Travel Ticket

HomeFeatures

## Booking Details

Id	FullName	MobileNumber	Email	Source	Destination	ArrivalDate	DepartureDate	TrainName	TrainFare		
1	Naveen	9765843210	naveen@gmail.com	New Delhi	Rajendra Nagar	2024-09-27	2024-09-24	Sampoorn Kranthi Express	220	<button>Print</button>	<button>Update Booking</button>

## Payment Results Receipt

A screenshot of a PDF viewer interface. The top bar shows the file name 'Booking\_Receipt\_1 (2).pdf' on the left and navigation controls (back, forward, zoom, etc.) on the right. The main content area displays a document titled 'Booking Receipt'. The document text is as follows:

Booking Receipt

Booking ID: 1

Train Fare: 220

Passenger Name: Naveen

Passenger Mobile Number: 9765843210

Departure Date: 2024-09-24

Arrival Time: 2024-09-27

Source: New Delhi

Destination: Rajendra Nagar



After successful Login, it will redirect to Bus Search where user need to enter all the details.

## Bus Search Results Page

Bus Search

Source

Secunderabad

Destination

hanumakonda

Arrival Date

10-07-2024

Departure Date

10-07-2024

Search Buses

Available Buses

Bus Name	Fare	From	To	Arrival Date	Departure Date	Action
Palle velugu	250	Secunderabad	hanumakonda	2024-07-10	2024-07-10	<div>Book</div>
Shatavahana	320	Secunderabad	hanumakonda	2024-07-10	2024-07-10	<div>Book</div>

## Add Booking Results Page

Add Bus Booking

Full Name:

Raju

Mobile Number:

8074952346

Email:

raju@gmail.com

Add Bus Booking

## Bus Ticket Details Result Page

### Bus Ticket Details

Id	FullName	MobileNumber	Email	Source	Destination	ArrivalDate	DepartureDate	BusName	BusFare		
17	Raju	8074952346	raju@gmail.com	Secunderabad	hanumakonda	2024-07-10	2024-07-10	Palle velugu	250	<a href="#">Print</a>	<a href="#">Update Booking</a>

## Payment Results Receipt

### Booking Receipt

Booking ID: 17

Bus Fare: 250

Passenger Name: Raju

Passenger Mobile Number: 8074952346

Departure Date: 2024-07-10

Arrival Time: 2024-07-10

Source: Secunderabad

Destination: hanumakonda

## Admin Login/Register

Here the “user” logs in Admin Role.

**Sign Up**

Role Admin ▾

Full Name

Naveen

Mobile Number

9823456713

Email address

naveen@gmail.com

We'll never share your email with anyone else.

Password

.....

**Sign up**

Already Existing User? [Click to Login](#)

# Login

Email address

naveen@gmail.com

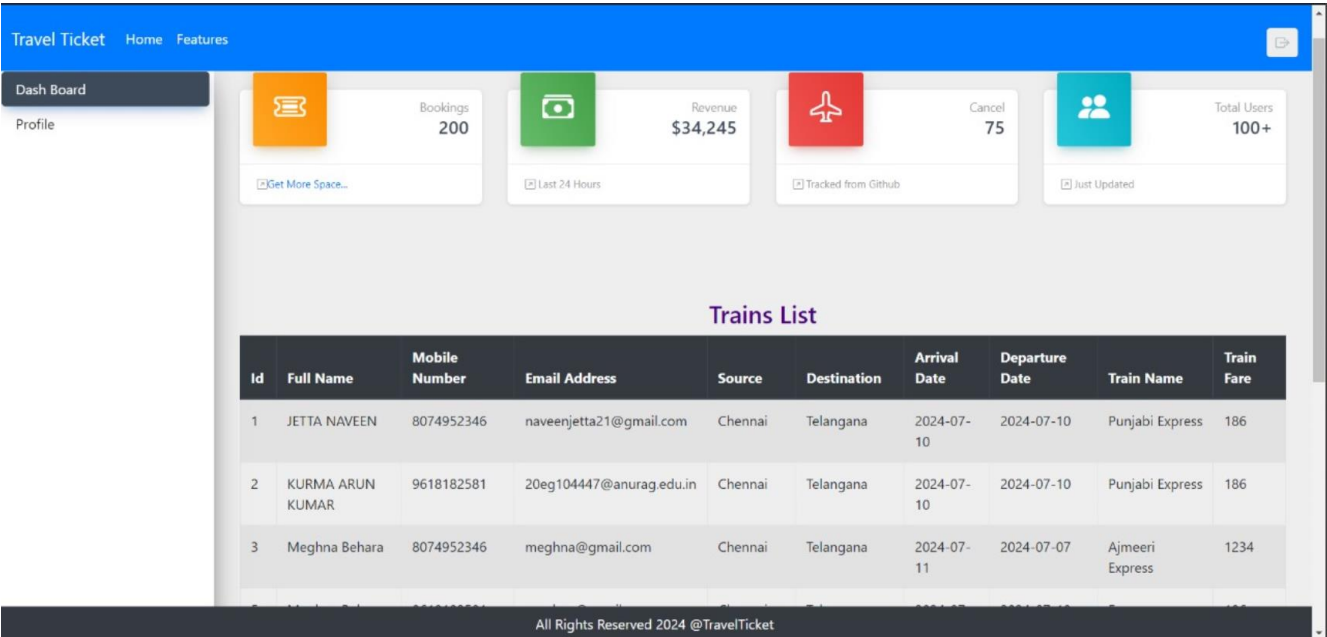
Password

.....

Login

[New User? Click to Sign Up](#)

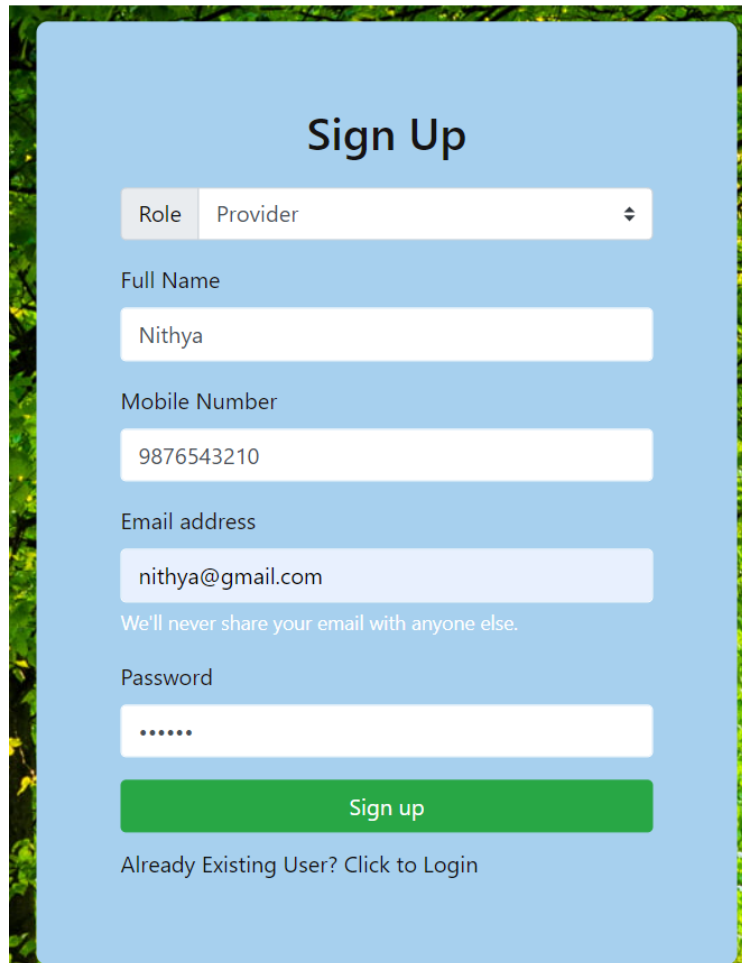
# Admin Dashboard



Buses List									
Id	Full Name	Mobile Number	Email Address	Source	Destination	Arrival Date	Departure Date	Bus Name	Bus Fare
17	Raju	8074952346	raju@gmail.com	Secunderabad	hanumakonda	2024-07-10	2024-07-10	Palle velugu	250
18	Ram Lalu	4569871365	ram@lalu	Secunderabad	hanumakonda	2024-07-10	2024-07-10	Palle velugu	250
19	Ranas	523689741	rana@123	Nampally	Warangal	2024-07-10	2024-07-07	Shatakarna	250
20	hari	2356899	hari@	Secunderabad	Bhongir	2024-07-10	2024-07-07	Metro Express	120

## Provider Login/Register

Here the “user” logs in Provider Role.

A screenshot of a 'Sign Up' form for a Provider Role. The form is set against a light blue background with a green foliage border. It includes fields for Role (set to Provider), Full Name (Nithya), Mobile Number (9876543210), Email address (nithya@gmail.com), and Password (masked with dots). A green 'Sign up' button is at the bottom, followed by a link for existing users.

**Sign Up**

Role Provider

Full Name  
Nithya

Mobile Number  
9876543210

Email address  
nithya@gmail.com

We'll never share your email with anyone else.

Password  
.....

**Sign up**

[Already Existing User? Click to Login](#)

# Login

Email address

nithya@gmail.com

Password

.....

Login

New User? Click to Sign Up

## Provider Dashboard

Travel Ticket

HomeFeatures

Dash Board

Add Train

Update Train

Bookings200

Revenue\$34,245

Cancel75

Total Users100+

Get More Space...

Last 24 Hours

Tracked from Github

Just Updated

	Full Id	Name	Mobile Number	Email Address	Sorce	Destination	Arrival Date	Departure Date	Train Name	Train Fare
1	Naveen	9765843210	naveen@gmail.com	New Delhi	Rajendra Nagar	2024-09-27	2024-09-24	Sampoorn Kranthi Express	220	

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Buses List									
Id	Full Name	Mobile Number	Email Address	Source	Destination	Arrival Date	Departure Date	Bus Name	Bus Fare
17	Raju	8074952346	raju@gmail.com	Secunderabad	hanumakonda	2024-07-10	2024-07-10	Palle velugu	250
18	Ram Lalu	4569871365	ram@lalu	Secunderabad	hanumakonda	2024-07-10	2024-07-10	Palle velugu	250
19	Ranas	523689741	rana@123	Nampally	Warangal	2024-07-10	2024-07-07	Shatakarna	250
20	hari	2356899	hari@	Secunderabad	Bhongir	2024-07-10	2024-07-07	Metro Express	120

Provider can add, update and delete trains.

Travel Ticket

Home

Features

Dash Board

Add Train

Update Train

Add Train

Train Name

Source

Destination

Arrival Date

Departure Date

Train Fare

Add Train

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Provider needs to Add the train and its respective fields.



## Add Train Results Page (Provider)

Travel Ticket

Home

Features

Dash Board

Add Train

Update Train

### Add Train

Train Name

Jaipur Jodhpur Express

Source

Jaipur

Destination

Jodhpur

Arrival Date

12-05-2024

Departure Date

07-05-2024

Train Fare

150

Add Train

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localhost:4200 says

Train added successfully

OK

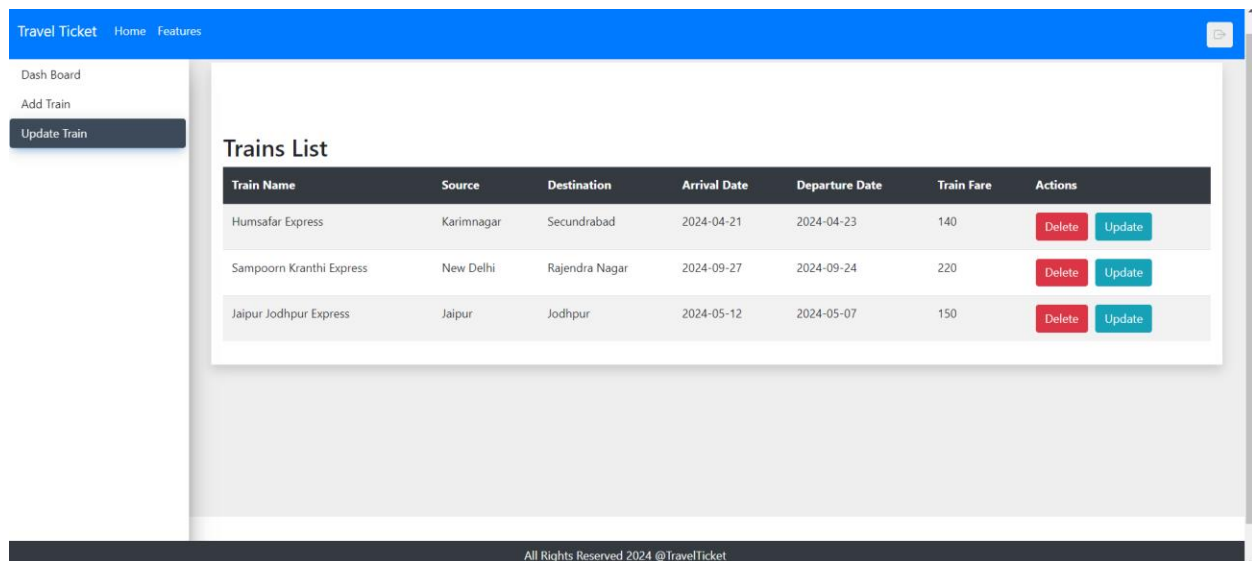
Once the trains are added it gives an alert message.

In Update trains we have a list of added trains where the provider can delete and update trains for the user.

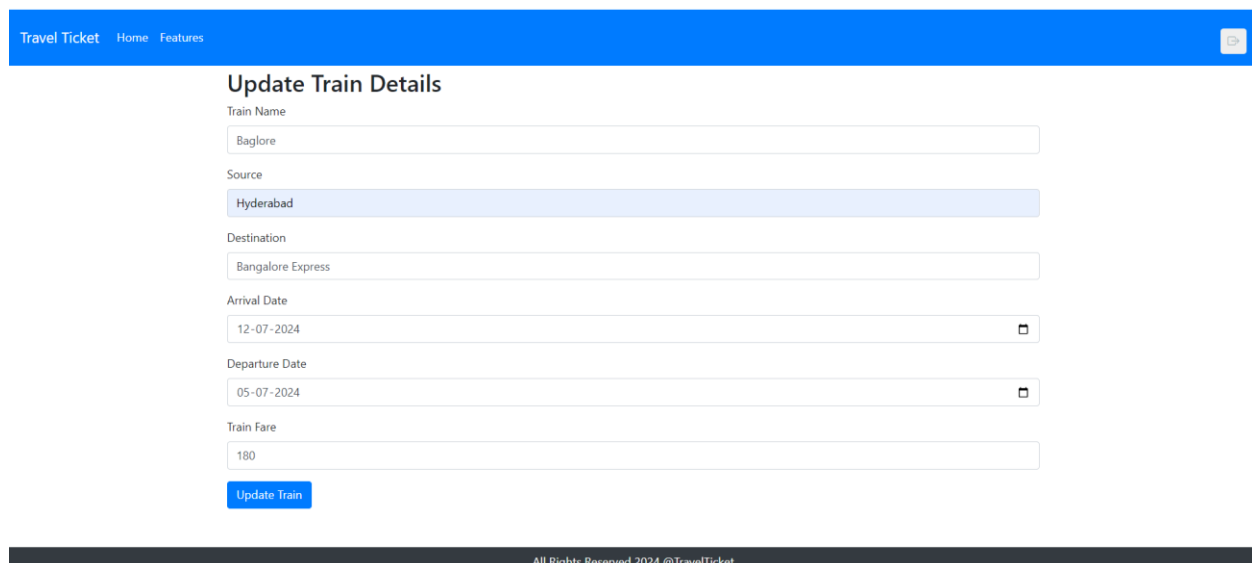
## Trains List Result Page

Travel Ticket Home Features						
Dash Board						
Add Train						
Update Train						
Trains List						
Train Name	Source	Destination	Arrival Date	Departure Date	Train Fare	Actions
Howrah Express	Howrah	Secundrabad	2024-04-21	2024-04-23	240	<a href="#">Delete</a> <a href="#">Update</a>
Humsafar Express	Karimnagar	Secundrabad	2024-04-21	2024-04-23	140	<a href="#">Delete</a> <a href="#">Update</a>
Sampoom Kranthi Express	New Delhi	Rajendra Nagar	2024-09-27	2024-09-24	220	<a href="#">Delete</a> <a href="#">Update</a>
Jaipur Jodhpur Express	Jaipur	Jodhpur	2024-05-12	2024-05-07	150	<a href="#">Delete</a> <a href="#">Update</a>

Here we are performing Howrah express deletion



Here we are performing Update Operation for Humsafar Express.



# Updated Train List Results Page

Travel Ticket

Home

Features

Dash Board

Add Train

Update Train

Trains List

Train Name	Source	Destination	Arrival Date	Departure Date	Train Fare	Actions
Baglore	Hyderabad	Bangalore Express	2024-07-12	2024-07-05	180	<div>Delete</div> <div>Update</div>
Sampoorn Kranthi Express	New Delhi	Rajendra Nagar	2024-09-27	2024-09-24	220	<div>Delete</div> <div>Update</div>
Jaipur Jodhpur Express	Jaipur	Jodhpur	2024-05-12	2024-05-07	150	<div>Delete</div> <div>Update</div>

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# Add Bus Results Page (Provider)

Dash Board

Add Train

Update Train

Add Bus

Update Bus

Add Bus

Bus Name

Garuda

Source

Secunderabad

Destination

Suryapet

Arrival Date

10-07-2024

Departure Date

10-07-2024

Bus Fare

310

Add Bus

localhost:4200 says

Train added successfully

OK

Once the trains are added it gives an alert message.

In Update bus we have a list of added buses where the provider can delete and update for the user.

## Buses List Result Page

Dash Board						
Add Train						
Update Train						
Add Bus						
Update Bus						

Buses List						
Bus Name	Source	Destination	Arrival Date	Departure Date	Bus Fare	Actions
Palle velugu	Secunderabad	hanumakonda	2024-07-10	2024-07-10	250	<button>Delete</button> <button>Update</button>
Shatavahana	Secunderabad	hanumakonda	2024-07-10	2024-07-10	320	<button>Delete</button> <button>Update</button>
Metro Express	Secunderabad	Bhongir	2024-07-10	2024-07-07	120	<button>Delete</button> <button>Update</button>
Garuda	Secunderabad	Suryapet	2024-07-10	2024-07-10	310	<button>Delete</button> <button>Update</button>

Here we are performing deletion for the bus named Garuda.

Buses List

Bus Name	Source	Destination	Arrival Date	Departure Date	Bus Fare	Actions
Palle velugu	Secunderabad	hanumakonda	2024-07-10	2024-07-10	250	<div>DeleteUpdate</div>
Shatavahana	Secunderabad	hanumakonda	2024-07-10	2024-07-10	320	<div>DeleteUpdate</div>
Metro Express	Secunderabad	Bhongir	2024-07-10	2024-07-07	120	<div>DeleteUpdate</div>

Here we are performing Update Operation for Shatavahana.

Update Bus Details

Bus Name

Shatakarna

Source

Nampally

Destination

Warangal

Arrival Date

10-07-2024

Departure Date

07-07-2024

Bus Fare

250

Update Bus

## Updated Bus Result Page

### Buses List

Bus Name	Source	Destination	Arrival Date	Departure Date	Bus Fare	Actions	
Palle velugu	Secunderabad	hanumakonda	2024-07-10	2024-07-10	250	Delete	Update
Shatakarna	Nampally	Warangal	2024-07-10	2024-07-07	250	Delete	Update
Metro Express	Secunderabad	Bhongir	2024-07-10	2024-07-07	120	Delete	Update