Solar Square Assignment

Rail Yatra MERN (E-Ticketing System)Stack Application By **Aditya Mishra**

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Introduction

Rail Yatra is a full-stack e-ticketing system inspired by IRCTC (Indian Railways Catering and Tourism Corporation). It allows users to browse train options, book tickets, manage bookings, and cancel reservations. The system is built using the MERN stack (MongoDB, Express.js, React, and Node.js).

Features

- Train Catalog:
- Admins can add trains and set prices.
- Customers can browse a list of trains going to different destinations.
- Ticket Booking:

- Customers can select a train and add passengers (with gender, age, and discounts).
- Prices vary based on options selected.
- Checkout and Booking History:
- Customers can book tickets using the checkout button.
- Booking history displays past reservations.
- Customers can cancel tickets from their history.
- Admin and Customer Roles:
- Admins manage train data (addition and pricing).
- Customers buy or cancel tickets.

Tech Stack

1. Frontend: React.js
2. Backend: Node.js (Express.js)
3. Database: MongoDB (connected via MongoDB compass)

Steps

Frontend (React)

Prerequisites

- Node.js (installed globally)

Clone the Repository:

Clone my Rail Yatri frontend repository from GitHub:

```
git clone https://github.com/Ciriously/sse-bboking-app-frontend
```

Navigate to the Client Directory:

```
cd sse-bboking-app
```

Install Dependencies:

```
npm install
```

Environment Variables:

Create a .env file in the root of the client directory.

Define environment variables (e.g., API endpoints, keys, etc.) in the .env file.

Start the Development Server:

```
npm start
```

Access the Application:

Open your browser and visit http://localhost:3000.

Backend (Node.js)

Prerequisites

- Node.js (installed globally)
- MongoDB Atlas account (for database)

Clone the Repository:

Clone your Rail Yatra backend repository from GitHub:
git clone https://github.com/Ciriously/sse-bookingapp-backend

Navigate to the Server Directory:

```
cd railyatribackend
```

Install Dependencies:

```
npm install
```

Environment Variables:

- Create a .env file in the root of the server directory.
- Define environment variables (e.g., MongoDB connection string, secret keys, etc.) in the .env file.

Start the Backend Server:

```
npm run dev
```

Access the API Endpoints:

Your backend server will run on `http://localhost:4000`.

Usage

Sign Up as an Admin:

- Before logging in, users need to sign up as an admin.
- Provide necessary details (such as name and password) to create an admin account.
- The signup process typically involves a separate form or page.

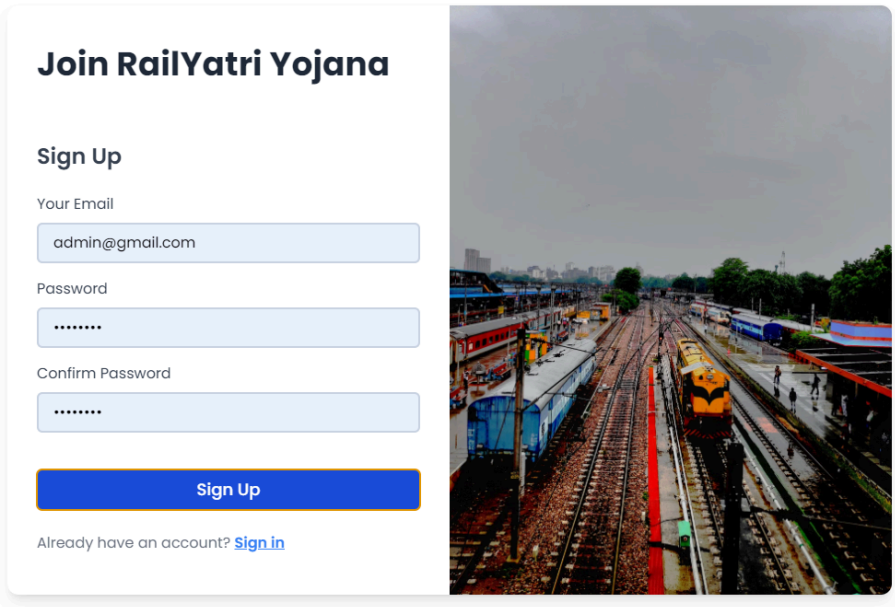
Login as Admin:

After successful signup, navigate to the login section.

Use the provided credentials to log in as an admin:

Email: admin123@gmail.com

Password: admin123



Access Admin Features:

Once logged in, you'll have access to admin-specific features:

- Adding trains and setting prices.
- Managing train data.

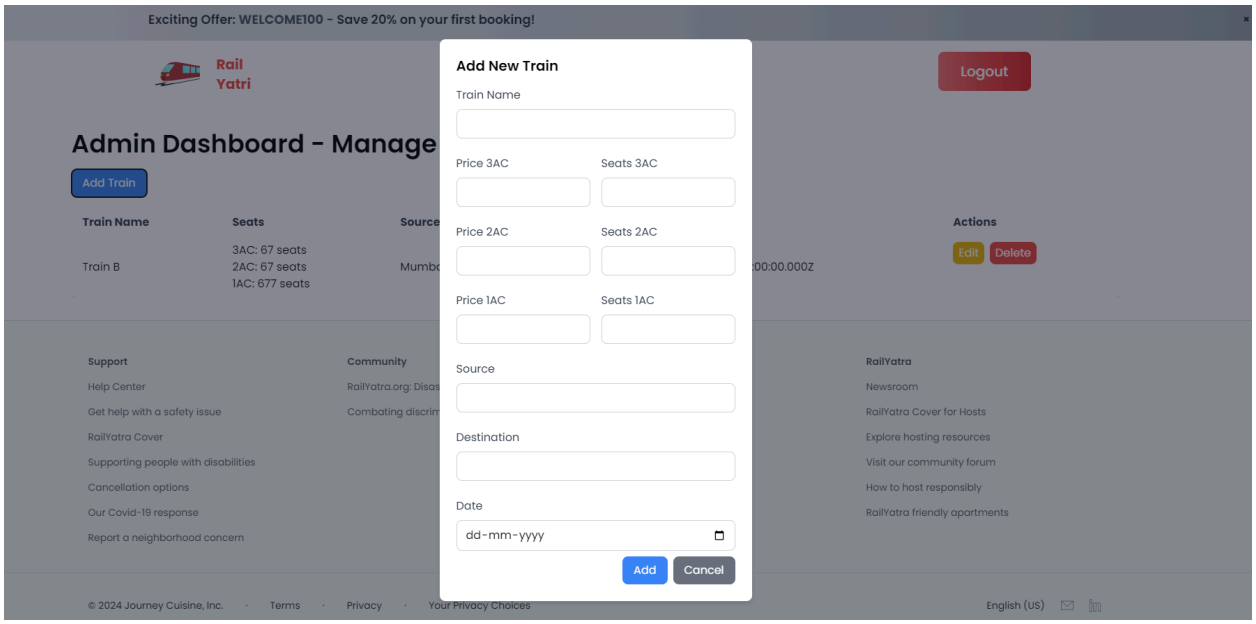
General User Login

For regular users, sign in with your registered email and password.

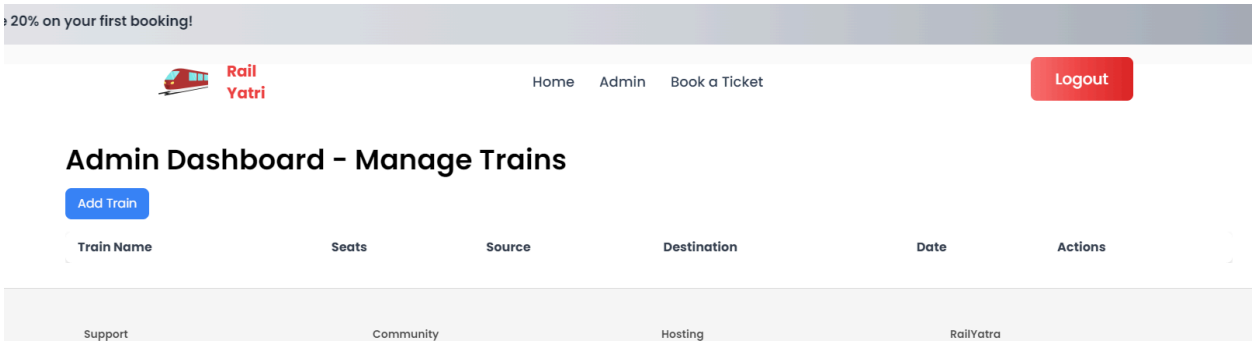
Note

Remember to log out after using the system to ensure security.

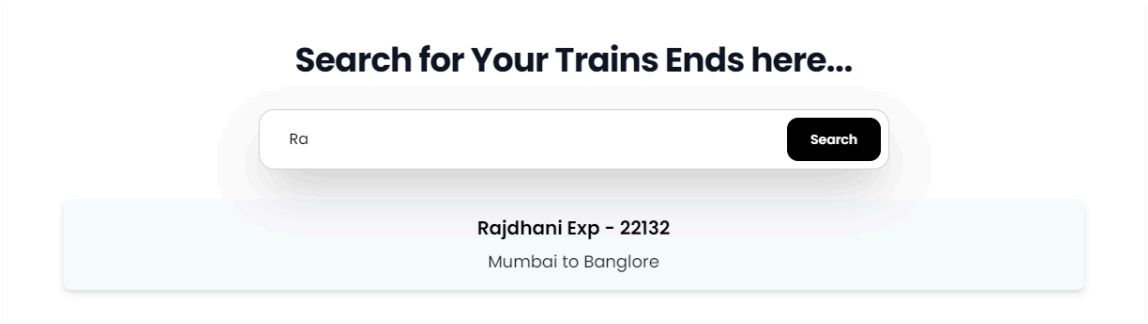
1.Add a Train



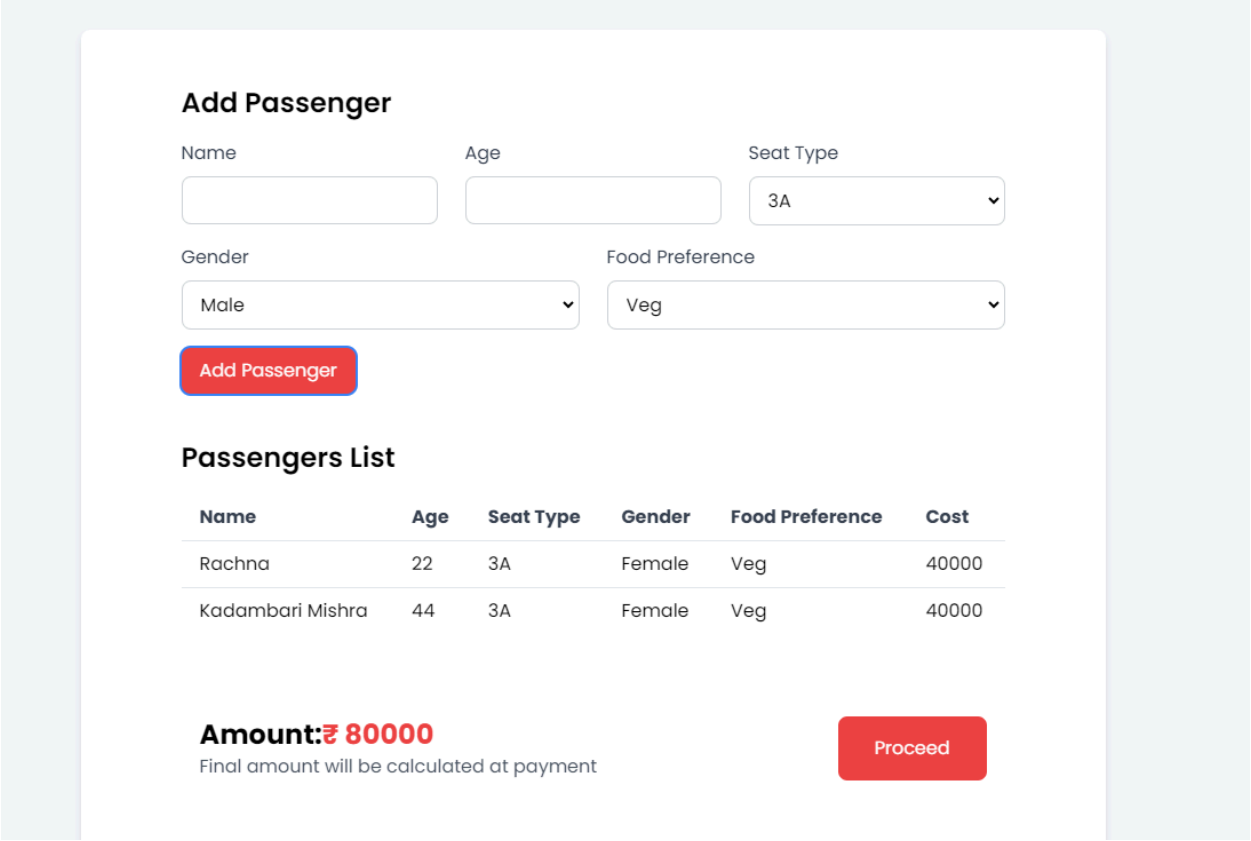
2. Delete a Train



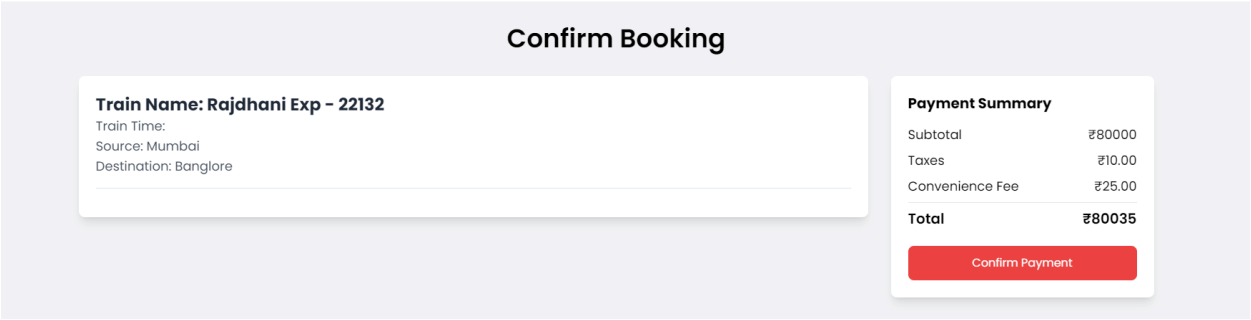
3. Search



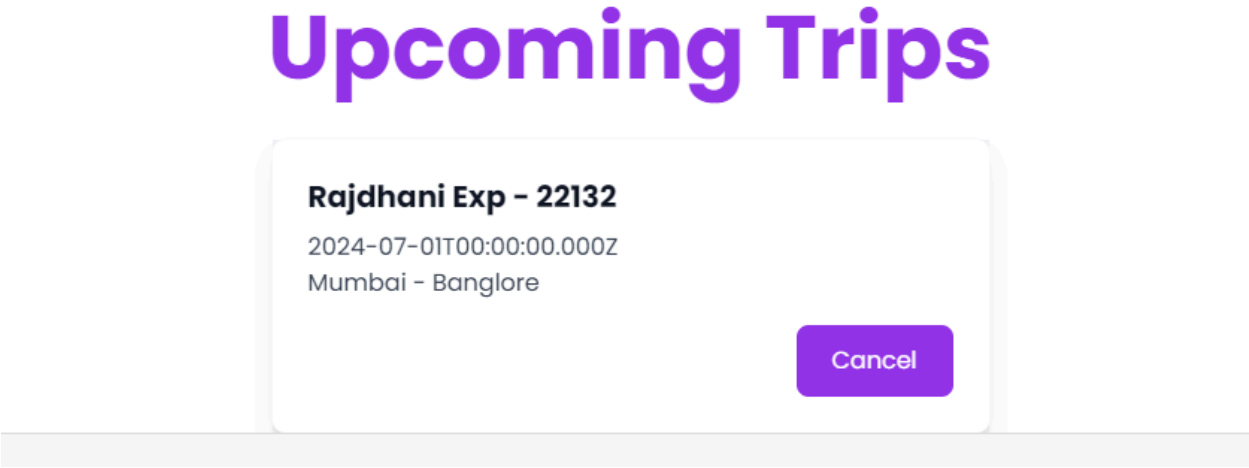
4. Add Passenger with Dynamic Total Price



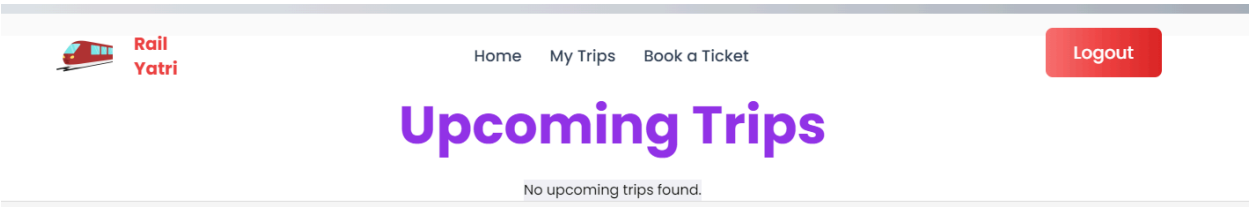
5. Confirm Payment



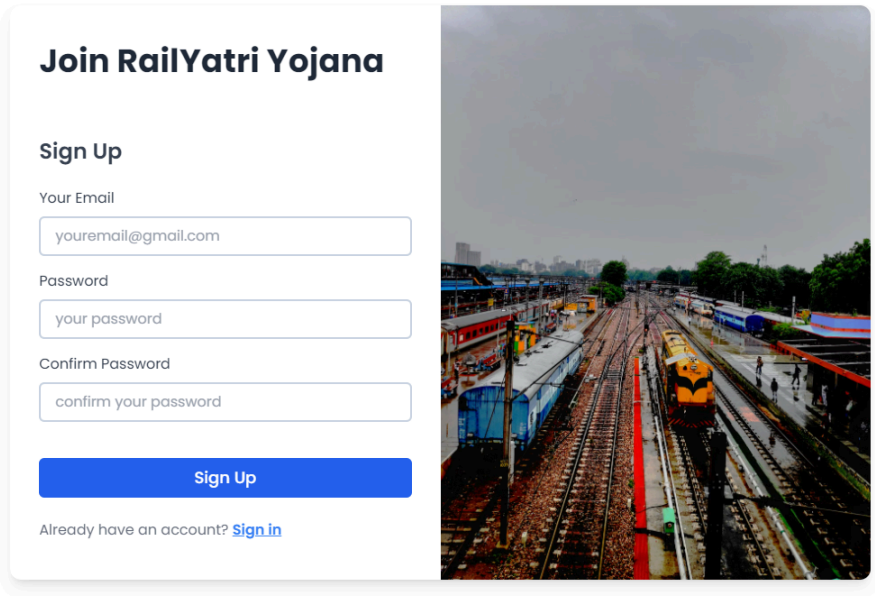
6. Upcoming Trips



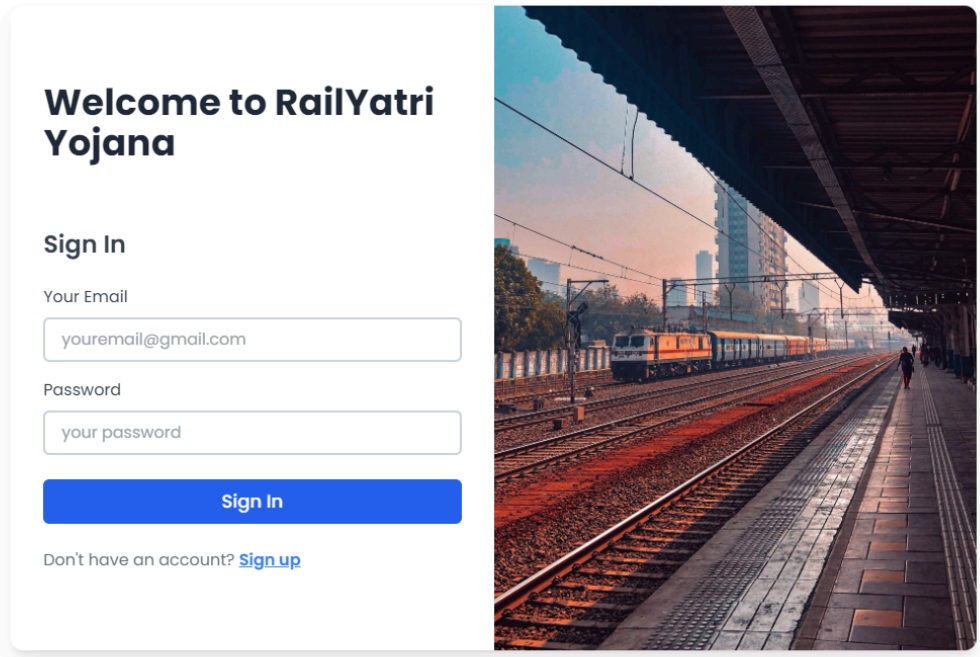
6.Cancel the trip



7. Signup


Join RailYatri Yojana
Sign Up
Your Email
youremail@gmail.com
Password
your password
Confirm Password
confirm your password
Sign Up
Already have an account? Sign in

8.Sign-in


Welcome to RailYatri Yojana
Sign In
Your Email
youremail@gmail.com
Password
your password
Sign In
Don't have an account? Sign up

Important Links

Github Links

Client - https://github.com/Ciriously/sse-bboking-app-frontend

Api - https://github.com/Ciriously/sse-bookingapp-backend

Video Link

railyatra.mp4