



Solar Square Assignment

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

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|--|----------|
| Rail Yatra MERN (E-Ticketing System) Stack Application By Aditya Mishra | 1 |
| Introduction | 2 |
| Features | 2 |
| Tech Stack | 3 |
| Steps | 3 |
| Frontend (React) | 3 |
| Prerequisites | 3 |
| Backend (Node.js) | 4 |
| Prerequisites | 4 |
| Usage | 5 |
| Sign Up as an Admin: | 5 |
| Login as Admin: | 6 |
| Access Admin Features: | 6 |
| General User Login | 6 |
| 1. Add a Train | 7 |
| 2. Delete a Train | 7 |
| 3. Search | 7 |

| | |
|---|----|
| 4. Add Passenger with Dynamic Total Price | 8 |
| 5. Confirm Payment | 8 |
| 6. Upcoming Trips | 8 |
| 6.Cancel the trip | 9 |
| 7. Signup | 9 |
| 8.Sign-in | 10 |
| Important Links | 11 |
| Github Links | 11 |
| Video Link | 11 |

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

Join RailYatri Yojana

Sign Up


Your Email

Password

Confirm Password

[Sign Up](#)

Already have an account? [Sign in](#)



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

The screenshot displays the RailYatri Admin Dashboard with a modal for adding a new train. The dashboard includes a top banner for a 20% discount, a sidebar with navigation links, and a main content area with a table of existing trains. The 'Add New Train' modal is open, showing fields for Train Name, Price and Seats for 3AC, 2AC, and 1AC, Source, Destination, and Date.

Exciting Offer: WELCOME100 - Save 20% on your first booking!

RailYatri

Admin Dashboard - Manage

[Add Train](#)

| Train Name | Seats | Source |
|------------|--|--------|
| Train B | 3AC: 67 seats 2AC: 67 seats 1AC: 677 seats | Mumbai |

Add New Train

Train Name

Price 3AC Seats 3AC

Price 2AC Seats 2AC

Price 1AC Seats 1AC

Source

Destination

Date

[Add](#) [Cancel](#)

[Logout](#)

Actions

[Edit](#) [Delete](#)

Support

[Help Center](#)

[Get help with a safety issue](#)

[RailYatra Cover](#)

[Supporting people with disabilities](#)

[Cancellation options](#)

[Our Covid-19 response](#)

[Report a neighborhood concern](#)

Community

[RailYatra.org: Disasters](#)

[Combating discrimination](#)

RailYatra

[Newsroom](#)

[RailYatra Cover for Hosts](#)

[Explore hosting resources](#)

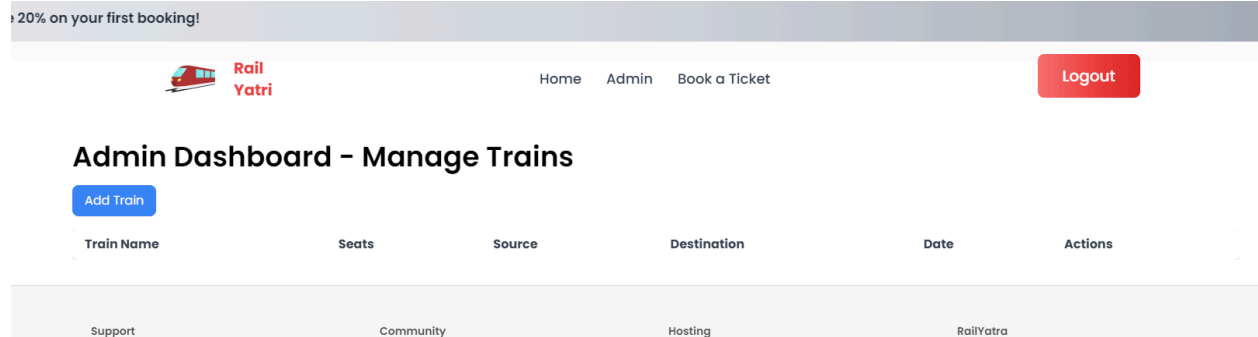
[Visit our community forum](#)

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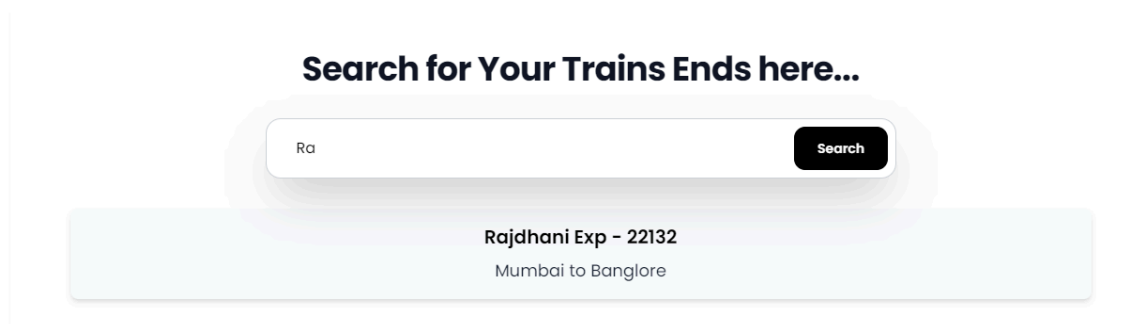
[RailYatra friendly apartments](#)

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2. Delete a Train



3. Search



4. Add Passenger with Dynamic Total Price

Add Passenger

| | | |
|----------------------|----------------------|-------------------|
| Name | Age | Seat Type |
| <input type="text"/> | <input type="text"/> | 3A ▼ |
| Gender | Food Preference | |
| Male ▼ | Veg ▼ | |

Add Passenger

Passengers List

| Name | Age | Seat Type | Gender | Food Preference | Cost |
|------------------|-----|-----------|--------|-----------------|-------|
| Rachna | 22 | 3A | Female | Veg | 40000 |
| Kadambari Mishra | 44 | 3A | Female | Veg | 40000 |

Amount: ₹ 80000

Final amount will be calculated at payment

Proceed

5. Confirm Payment

Confirm Booking

Train Name: Rajdhani Exp - 22132

Train Time:
Source: Mumbai
Destination: Bangalore

Payment Summary

| | |
|-----------------|---------------|
| Subtotal | ₹80000 |
| Taxes | ₹10.00 |
| Convenience Fee | ₹25.00 |
| Total | ₹80035 |

Confirm Payment

6. Upcoming Trips

Upcoming Trips

Rajdhani Exp - 22132

2024-07-01T00:00:00.000Z

Mumbai - Bangalore

Cancel

6. Cancel the trip



Rail
Yatri

[Home](#) [My Trips](#) [Book a Ticket](#)

Logout

Upcoming Trips

No upcoming trips found.

7. Signup

Join RailYatri Yojana

Sign Up

Your Email

Password

Confirm Password

Sign Up

Already have an account? [Sign In](#)



8.Sign-in

Welcome to RailYatri Yojana

Sign In

Your Email

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