



## 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-booking-app-frontend-master
```

### Install Dependencies:

```
npm install
```

### 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 sse-booking-app-backend-main
```

### Install Dependencies:

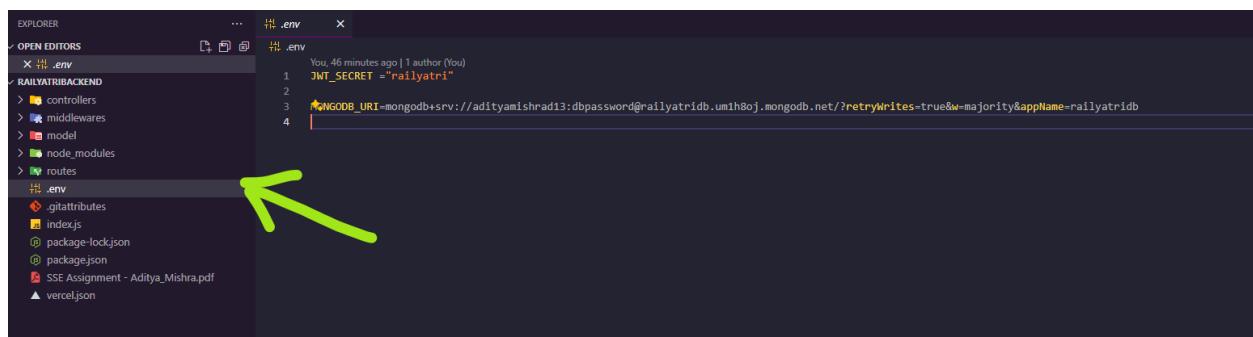
```
npm install
```

## Environment Variables:

- Create a `.env` file in the root of the `server` directory. This is what Your Env file should include
- Just Simply Copy paste this into your `.env` file to access the database securely

```
JWT_SECRET ="railyatri"
```

```
MONGODB_URI=mongodb+srv://adityamishrad13:dbpassword@railyatridb.um1h8oj.mongodb.net/?retryWrites=true&w=majority&appName=railyatridb
```



### Start the Backend Server:

```
npm run dev
```

### Access the API Endpoints:

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

# Usage

## Sign In as Admin

### **1.Open the Rail Yatra App:**

- Access the Rail Yatra e-ticketing system through your preferred web browser.

### **2.Navigate to the Sign-In Section:**

- Click on the “Sign In” link or button.

### **3.Admin Credentials:**

- Use the following credentials to log in as an admin:
  - ❖ **Email:** admin123@gmail.com
  - ❖ **Password:** admin123

### **4.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.

## Welcome to RailYatri Yojana


### Sign In

Your Email

Password

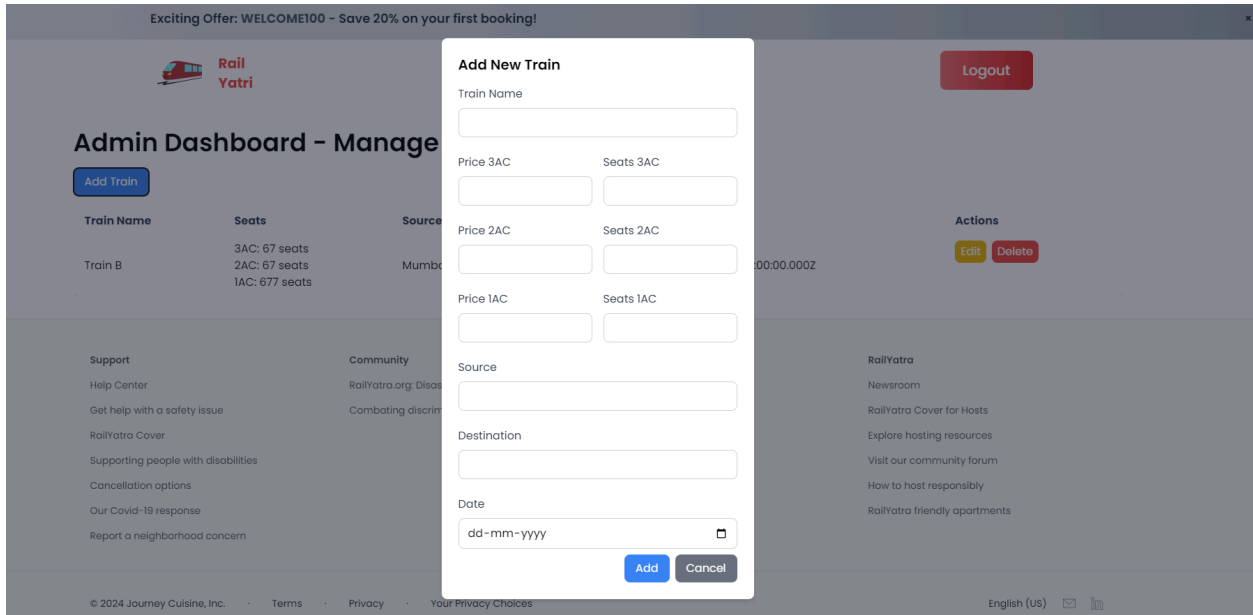
[Sign In](#)

Don't have an account? [Sign up](#)

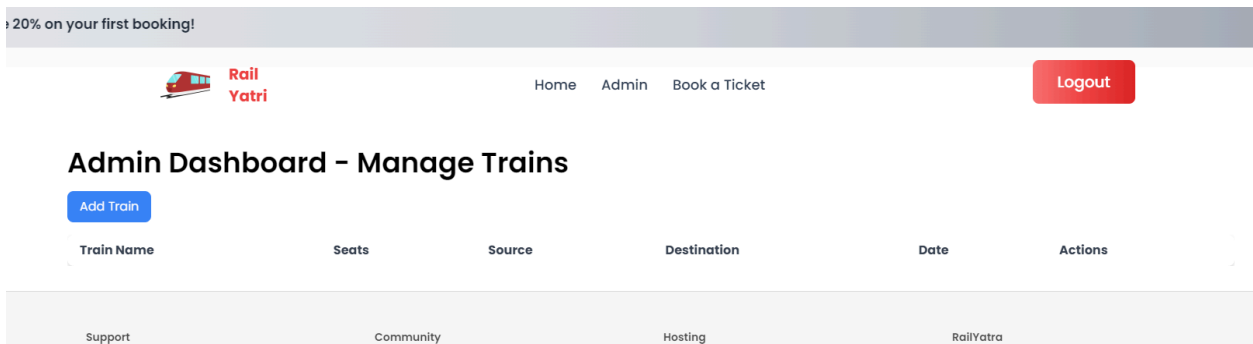


## 1.Add a Train

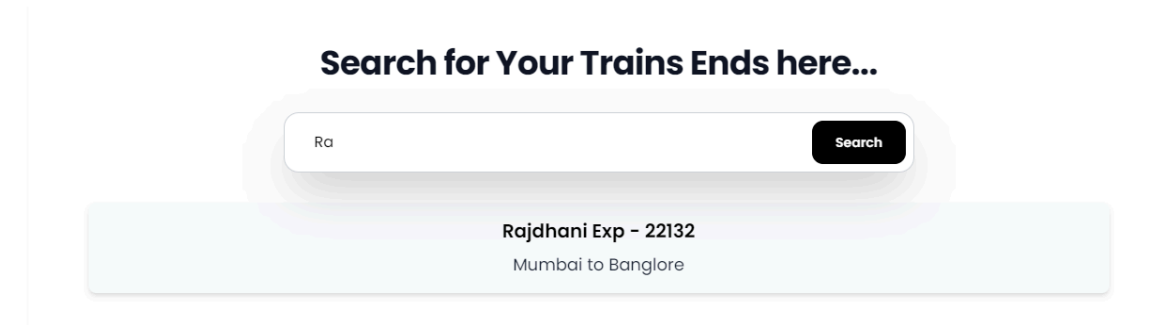




## 2. Delete a Train



## 3. Search



## 4. Add Passenger with Dynamic Total Price

### Add Passenger

Name

Age

Seat Type

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>

**Hosted Link(Vercel for live server of the Frontend)** - <https://railyatri.vercel.app/>

## Video Link -

 railyatra.mp4