

Railgaadi

Course Detail

Course Name - Database Management System Laboratory (CS262)

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Introduction

Welcome to Railgaadi, the Railway-Management-System. From a user's perspective it is a software that manages the booking of tickets in railways, in particular, Indian Railways.

Functionalities available:

- 1.Search trains(Either by Number Or by entering {origin,destination and date of journey})
- 2.Get Information about trains that arrive and depart from a station (using About Station).
- 3.Book Meal for journey.
- 4.Check Booking Status.
- 5.Sign up/Sign in to your account.
- 6.A homepage button to navigate you to homepage.

This project is currently using NodeJs and MongoDB as the technologies for building the project with a javascript backend.

The languages used are Javascript, HTML and CSS.

Modules :

1. Booking
2. BookingStatus
3. Meals
4. Station
5. Train
6. Users

Dependencies

The project is made using NodeJS and MongoDB so you need NodeJS , NPM and mongodb in your system. You may visit <https://nodejs.org/en/>(for Nodejs) and <https://www.mongodb.com/try/download/community>(MongoDb) and <https://docs.mongodb.com/manual/tutorial/install-mongodb-on-windows/>(steps for installing MongoDB), for more information on how to install NodeJs and MongoDB on your system. We assume you have git installed in your system.

Step to Run Program:

After installing NodeJs and MongoDB from the link provided above, install the dependencies of Node.

1. Open cmd/terminal (terminal 1) and set the path to the main directory (Railgaadi).
2. Write the following commands to install the dependencies:
 - npm i bcrypt
 - npm i body-parser
 - npm i express
 - npm i express-session
 - npm i hbs
 - npm i mongodb
 - npm i mongoose
 - npm i nodemon
 - npm i passport
 - npm i passport-local
 - npm i validator

- npm install

3. After completing the step 2, open a new terminal(say terminal 2) , without closing the old terminal (terminal 1).

4. To start the mongodb server:

- Open new cmd and move to the directory where mongodb is installed. For eg: if mongodb is installed in C drive in folder Program Files, then your path should be "C:/Program Files/mongodb".
- Move to the bin directory in mongodb. E.g. Path should be "C:/Program Files/mongodb/bin".
- After executing the above steps, type the command "mongod --dbpath=**C:/database**".
- The dbpath above in bold is the path where the database folder is stored (e.g. My database folder is stored C drive hence the path is specified in above with bold).

5. Go to terminal 1 and make sure the path is set to main directory (Railgaadi) and type the command "npm run dev".

NOTE : Dont close any of the terminals.

6. Open web browser > go to the link "<http://localhost:3000/homepage.html>".

How to use the webpage?

1. Sign up with a user (you can use Search train, search by number, about station and book meal in the website without signing in also).
2. Log in to your account.
3. Use any of the Functionality.

What are we looking forward to?

We might continue to this project in future and try to add features like:

1. Functionality to track live running status of a train.
 2. Check PNR status.
 3. Book ticket using transactions.
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