Full Stack MERN Project Documentation

1. Introduction

• Project Title: [househunt: finding your perfect rental home]

• Team Members: - M Harshitha Bramaramba – Frontend Developer

- Maadana Jyothirmayi – Backend Developer

- Madugula Anusha – Database Designer

- Maddipudi Venkata Surya Kiran – Full Stack Lead

2. Project Overview

• Purpose: Describe the purpose and goals of the project.

• Features: - User authentication - CRUD functionality - Admin panel - Responsive UI - API integration

3. Architecture

• Frontend: Built using React with routing and state management.

• Backend: Node.js with Express.js for RESTful APIs.

• Database: MongoDB with Mongoose for schema modeling.

4. Setup Instructions

• Prerequisites: - Node.js - MongoDB - Git

• Installation: - Clone the repository - Install dependencies using npm - Set up .env file - Start frontend and backend servers

5. Folder Structure

• Client: - /src/components - /src/pages - App.js, index.js

• Server: - /controllers - /models - /routes - server.js, .env

6. Running the Application

Frontend: Run `npm start` in the client directory.

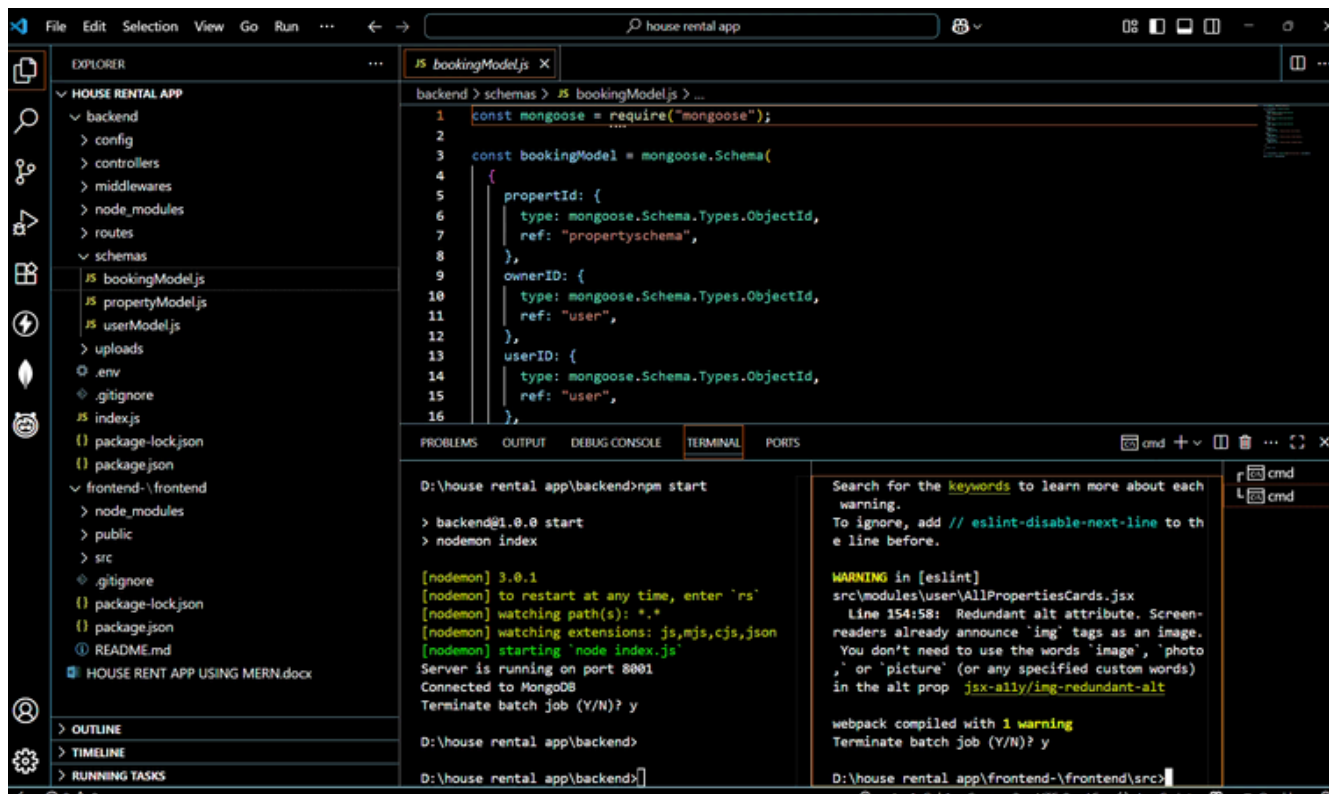Backend: Run `npm start` in the server directory.

7. API Documentation

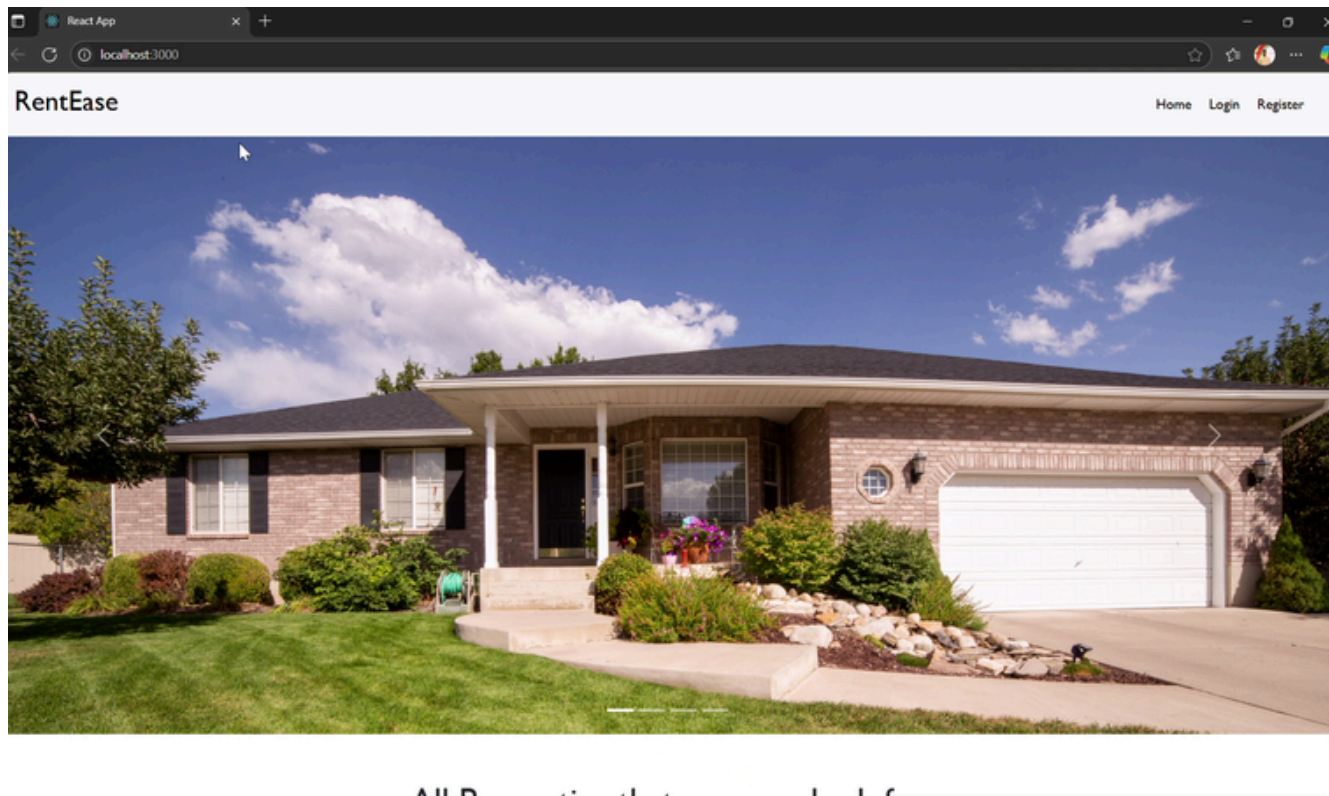Example:POST /api/users/registerRequest Body:{ "name": "John", "email": "john@example.com", "password": "123456"}

8. Authentication

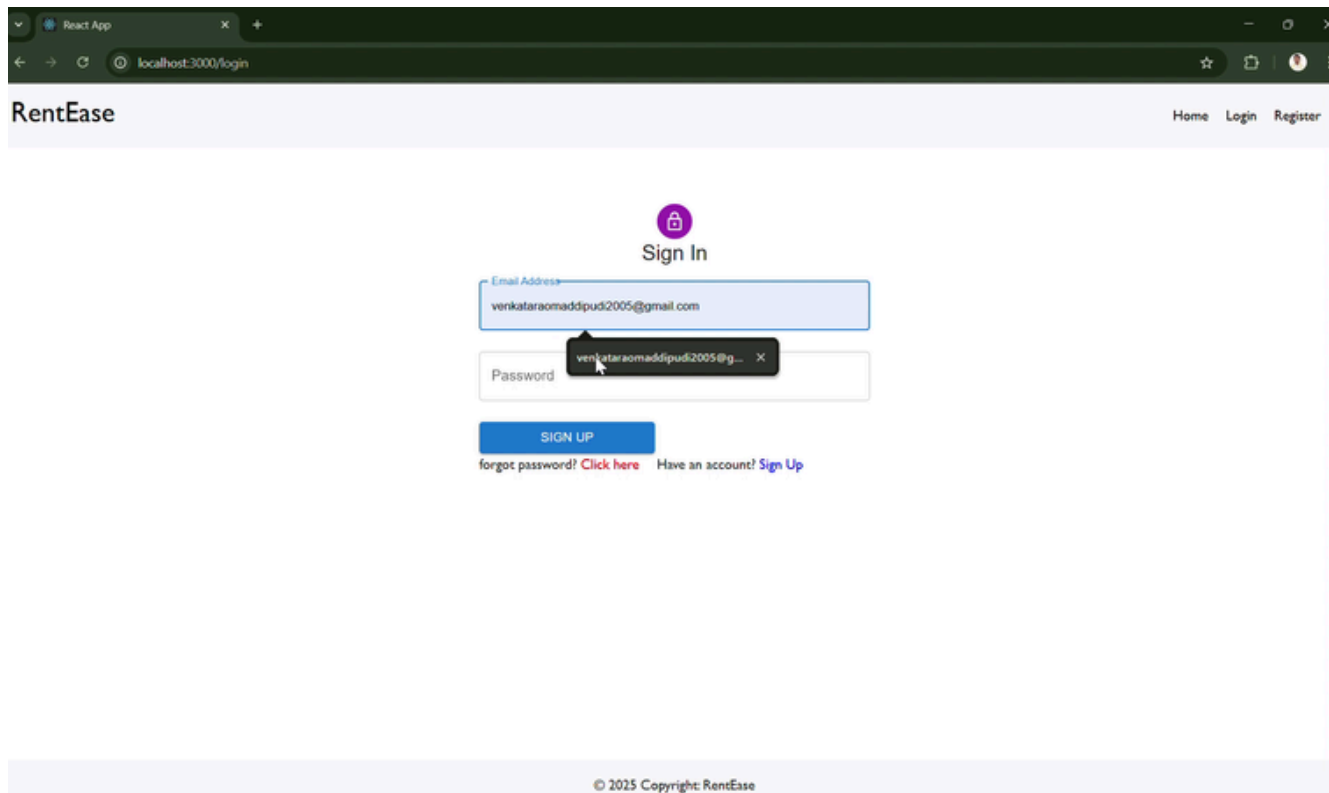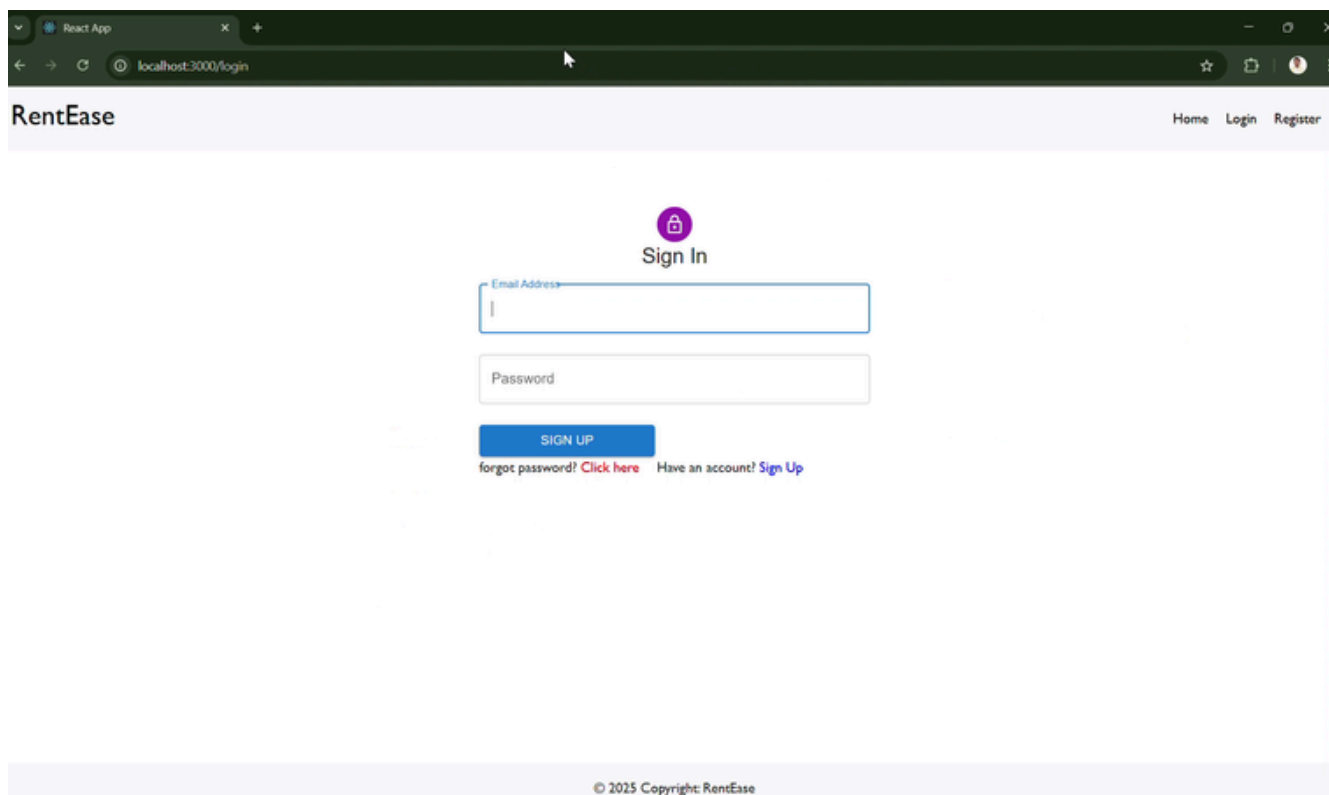JWT-based authentication with protected routes.

9. User Interface
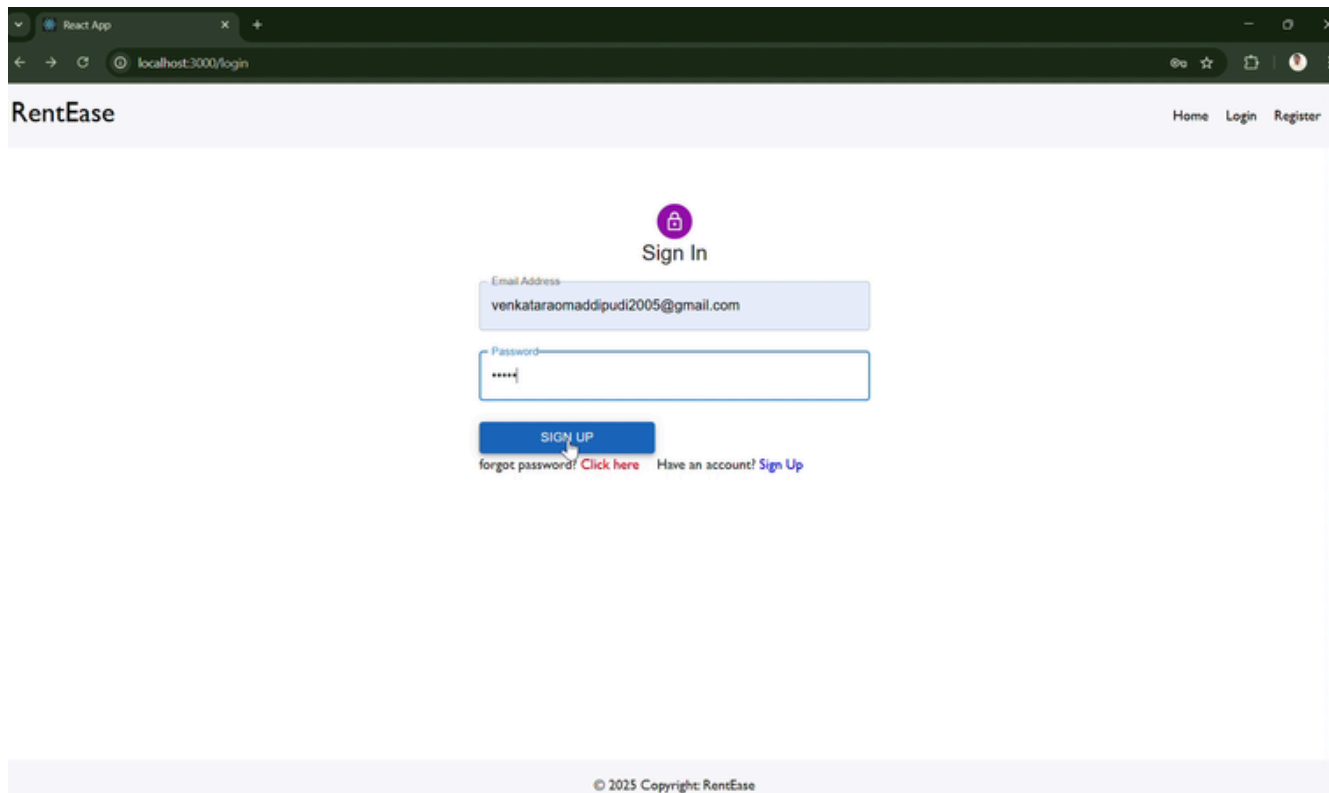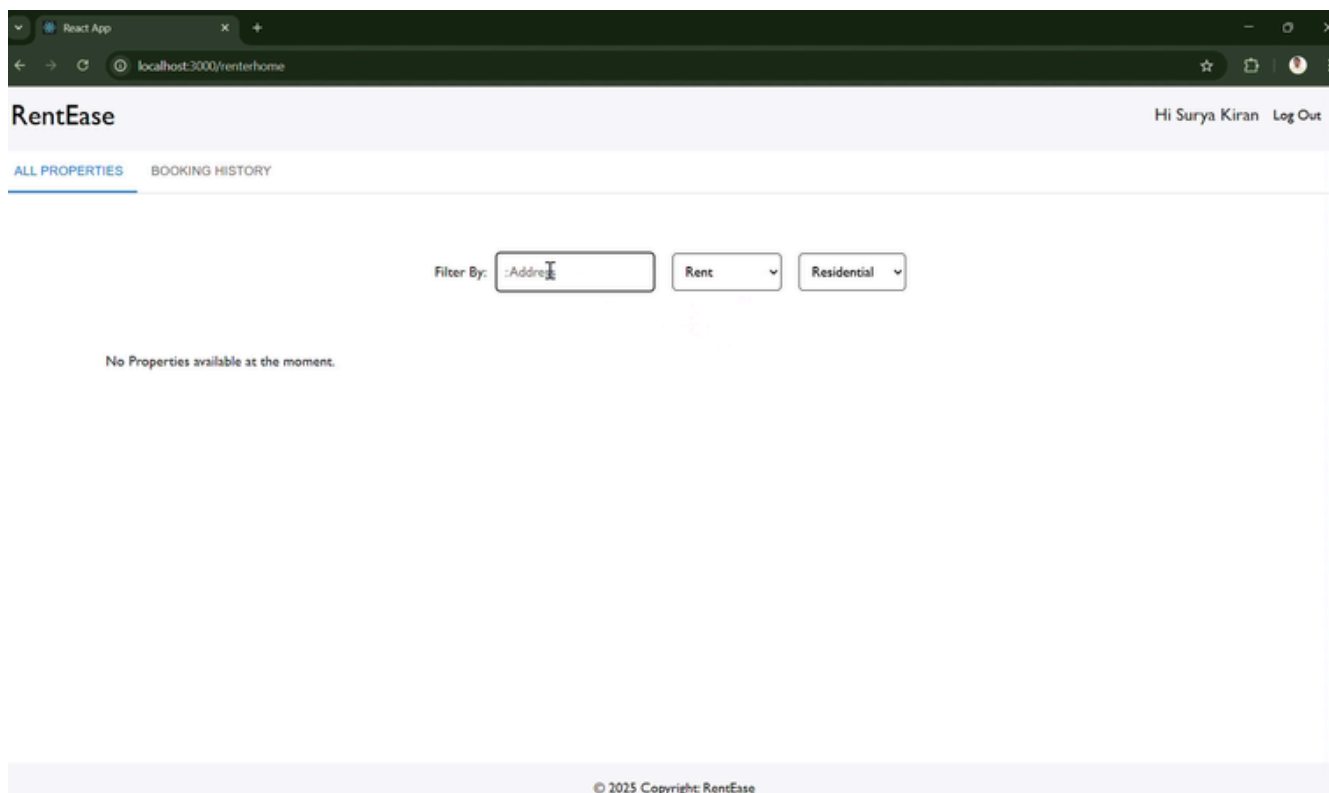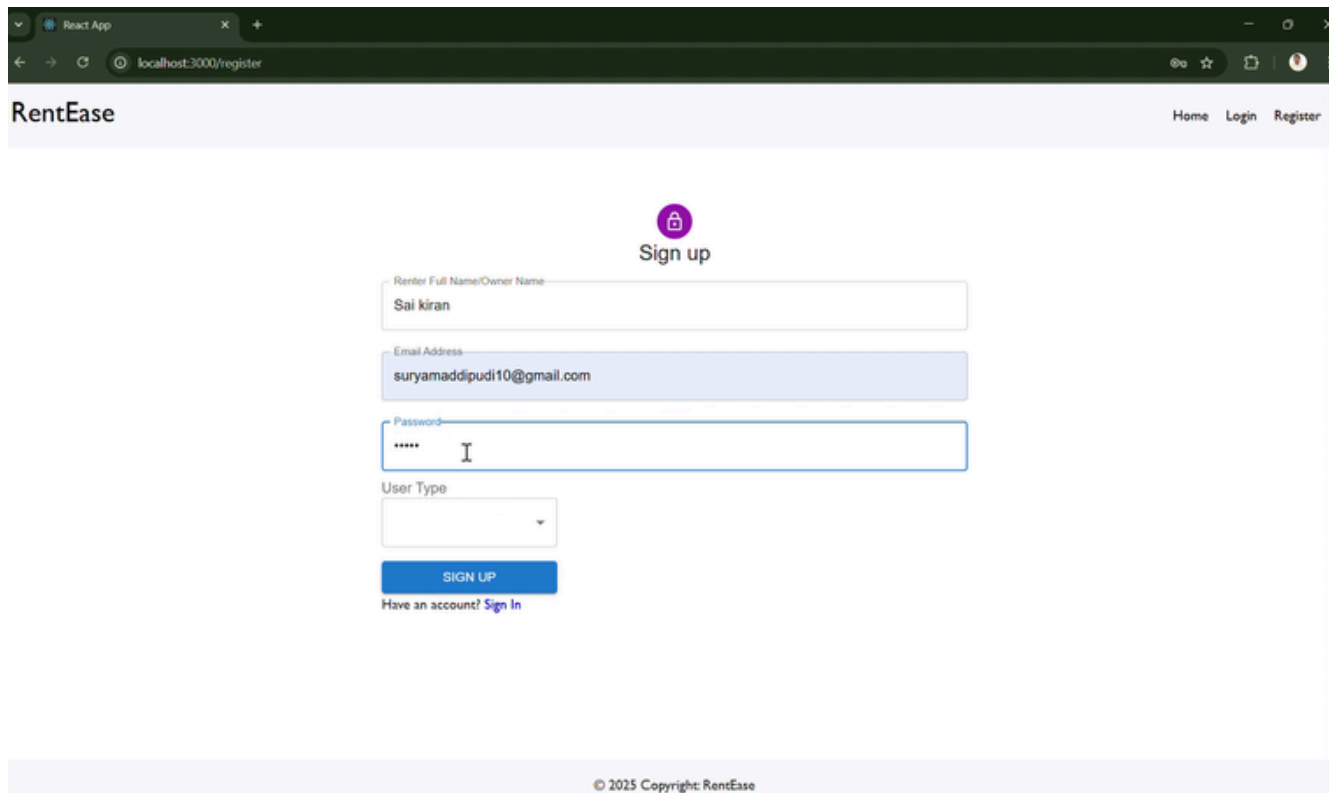
screenshot_1.png
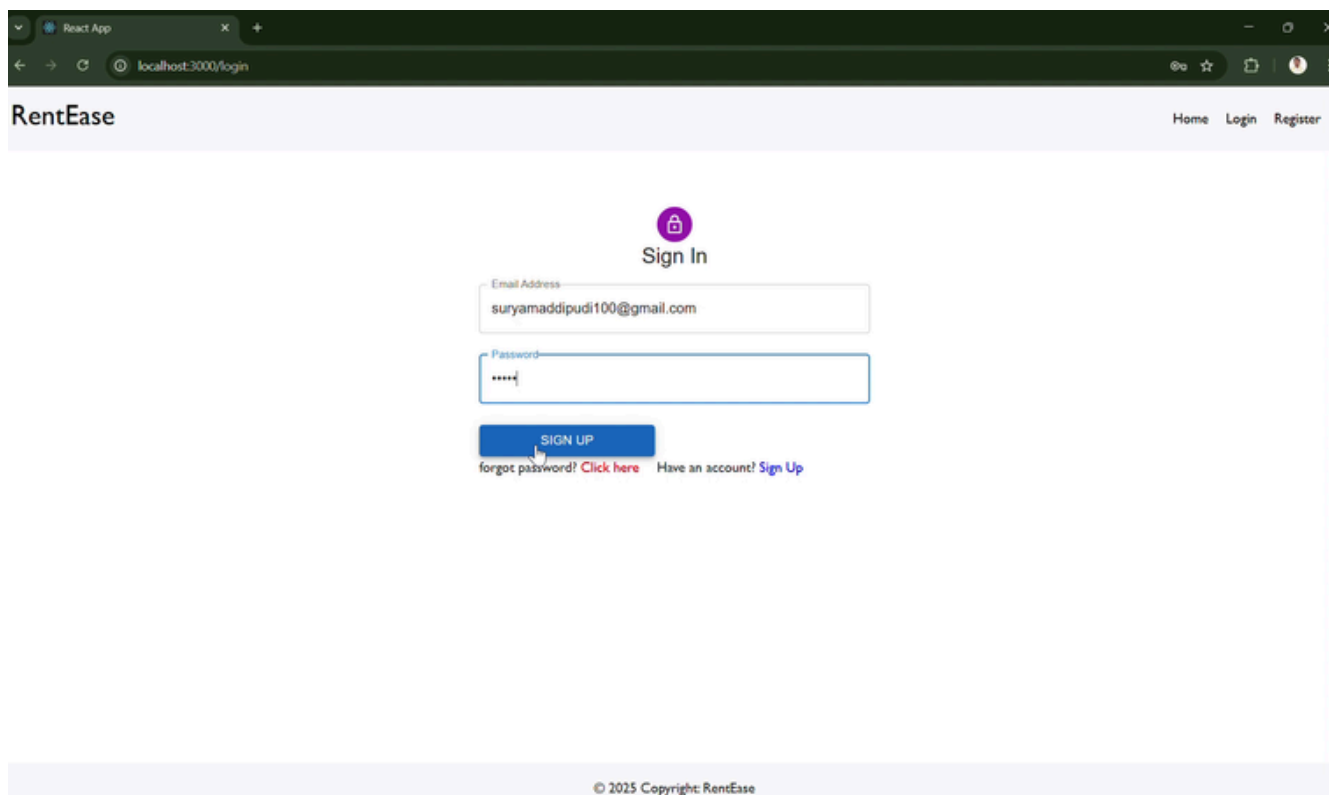

screenshot_2.png

screenshot_3.png

screenshot_4.png

localhost:3000/login

RentEase

Home   Login   Register

Sign In

Email Address
venkataraomaddipudi2005@gmail.com

Password
•••••

SIGN UP

forgot password? **Click here**   Have an account? **Sign Up**

screenshot_5.png

localhost:3000/renterhome

RentEase

Hi Surya Kiran   Log Out

ALL PROPERTIES   BOOKING HISTORY

Filter By: :Address   Rent ∨   Residential ∨

No Properties available at the moment.

screenshot_6.png

screenshot_7.png

screenshot_8.png

10. Testing

Manual testing using Postman and browser.

11. Screenshots or Demo

Refer to the User Interface section above for screenshots.

12. Known Issues

- Responsiveness issues on small devices- API latency on poor networks

13. Future Enhancements

- Add chat functionality- Implement email verification- Integrate payment gateway