

# My Rent Apartment - Project Documentation

## 1. Introduction

My Rent Apartment is a web-based platform designed to simplify the process of listing, searching, and managing rental apartments. Built using Node.js, Express, MongoDB, Bootstrap, and custom CSS, the platform ensures a smooth and responsive experience for users. This documentation outlines the features, database schema, and structure of the project.

## 2. Features

- User Registration & Authentication (Passport.js)
- Apartment Listings with images, price, city, and location
- OTP-based email verification
- Review system for listings
- Chat system between registered users
- Geolocation support for listings (latitude & longitude)
- Responsive design using Bootstrap and CSS

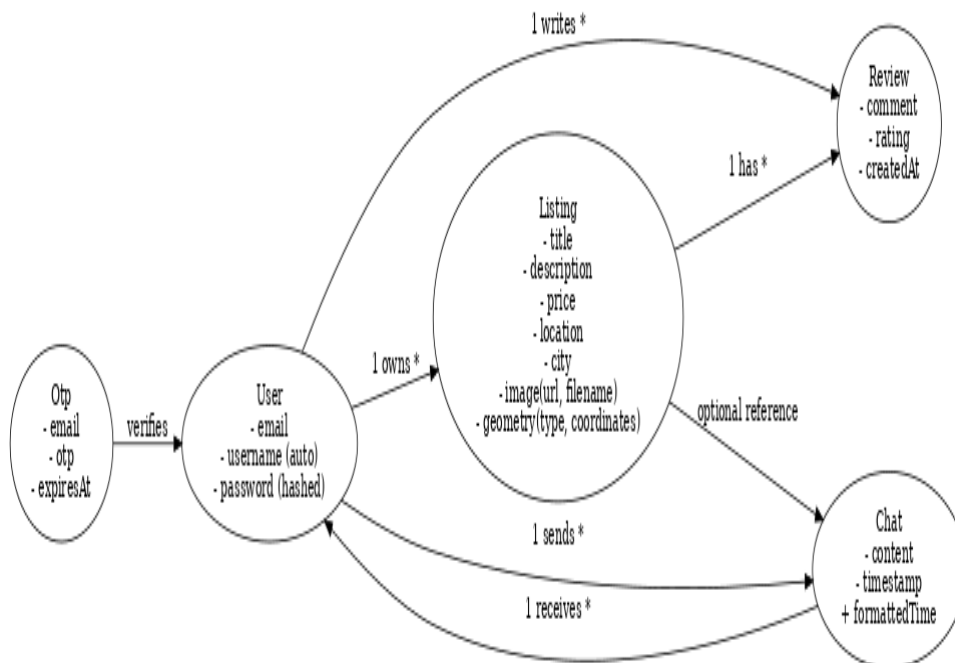
## 3. Database Design

The project uses MongoDB as the database. The following collections are implemented:

- User: Stores user account details (email, username, hashed password)
- Listing: Stores apartment details (title, description, price, location, city, image, owner, reviews, geometry)
- Review: Stores ratings and comments related to listings
- Chat: Stores messages exchanged between users
- OTP: Stores one-time password for email verification

## 4. Entity Relationship Diagram (ERD)

Below is the ERD diagram representing the database schema:



## 5. Conclusion

My Rent Apartment is a complete rental management solution for both apartment owners and renters. With a clean architecture, optimized queries, and user-friendly features, it is designed to be

scalable and secure.