
SOFTWARE REQUIREMENTS SPECIFICATION

for

Real Estate Management System

Version 1.0

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1 Introduction

1.1 Purpose

This Software Requirements Specification (SRS) document is the outline of Real Estate Management System (REMS), version 1.0, requirements. The REMS is a one stop solution for software which has been designed to manage and administer real estate properties, transactions, and customer interactions while following the rules and regulations. The main point of this piece of writing is the list of functional and non-functional requirements which are the base of the REMS. This clearly gives all users the different milestones that will be completed during its design, development, and implementation of it. But it also shows the areas in which it will be executed, such as customer relationship management, the management of properties, reporting, and integration into with external systems.

1.2 Intended Audience and Reading Suggestions

This SRS is for developers, project managers, users and testers. Further the discussion will provide all the internal, external, functional and also non-functional informations about "Real Estate Management System".

1.3 Project Scope

"Real Estate Management System" creates a space for Dealer,Supplier and buyer to function together easily .

Real Estate Management Services(REMS) is equipped with tools that ensure real estate agents, property managers and clienteles are able to conveniently take care of the property listings, viewing of the properties, appointment scheduling, offer handling, and transaction facilitation. The system permits the interface of the external systems for the completing of financial transactions and legal compliance.

1.4 Definitions, Acronyms and Abbreviations

- REMS: Real Estate Management System

- MLS: Multiple Listing Service
- CRM: Customer Relationship Management
- API: Application Programming Interface
- UI: User Interface

2 Overall Description

2.1 Product Perspective

The REMS will work as a separate application that will interact with other MLS and financial systems through APIs. It will be a user-friendly interface that will be easy to use for the real estate agents, property managers, and customers.

2.2 User Classes and Characteristics

"REMS" has basically 3 types of users.

- Real Estate Agents : Experienced in property sales and management.
- Property Managers : Responsible for maintaining properties and handling tenant issues
- Customers (Buyers and Sellers) : Individuals interested in purchasing or selling properties.

2.3 Product Functions

- Login/Signup page: It provides an authentication service through JWT web token and OAuth services.
- Listings: It provides functionality to user to list there property for sale/rent .
- listing UI: It lists all the listings present for rent/ sale.
- profile: This provide the personal info of the user . here user can update their details and update listings
- Search BAR: It provides an filtered search functionality to the user

2.4 Operating Environment

The system will operate on web browsers (Chrome, Firefox, Safari) and mobile devices (iOS, Android) with internet connectivity.

2.5 Design

- The application must be developed using NodeJS for cross-platform compatibility. This ensures the app can be used on any Browser.
- JWT and Mongodb will be used for the backend services including authentication, database, and storage respectively. This provides a reliable and scalable backend solution.
- The application should ensure data security and privacy. All data must be encrypted and only accessible to authorized users.
- The system must comply with college regulations and data protection laws. This ensures the system operates within legal boundaries.

2.6 Assumptions and Dependencies

- Users (guards/admins and students) have compatible devices to run the web application.
- Internet connectivity is required for real-time database operations. This ensures data is always up-to-date and synchronized.
- The Customer will provide access to necessary resources such as property data and Location information. This is essential for the app to function correctly.