

# Software Requirements Specification for Real Estate Management

Prepared by Group 10

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# **SRS DOCUMENT FOR RIDE SHARING SYSTEM**

## **1 Introduction**

### **1.1 Purpose**

The main objective of this document is to illustrate the requirements of the real estate website project. The document provides a detailed description of both functional and nonfunctional requirements of this project. The purpose of this project is to facilitate the communication between land owners and buyers . The main aim is to create a platform to develop a comprehensive online platform that seamlessly connects buyers and seller thus eliminating the middle man (broker)

### **1.2 Document Conventions**

IEEE standard are followed. Main Heading Times New Roman -16pt, Bold

Sub heading – Times New Roman -Level 1 – 14pt Bold

Normal – Times New Roman -Times New Roman 12

FRI represents Functional Requirements where ‘i’ represents ID number.

NFRI represents Non- Functional Requirements where ‘i’ represents ID number

### **1.3 Intended Audience and Reading Suggestions System**

Land owner, buyers , customer and all who directly or indirectly involved with this project.

### **1.4 Product Scope**

Real estate management website revolutionizes the land buying and selling experience by cutting out the middleman and empowering direct connections between buyers and sellers. By providing detailed listings and contact information while maintaining the privacy of both parties, we enable seamless communication and negotiation. Our platform does not facilitate transactions, instead, it empowers users to interact independently and finalize deals on their terms. By harnessing the power of google maps api and integrating it seamlessly into our platform we aim to streamline the land transaction process and empower individuals to make informed decisions without the need for intermediaries

### **1.5 References**

Books, Websites, ChatGPT

## 2 Overall Description

### 2.1 Project Perspective

This project aims to modernize real estate business by providing a streamlined user experience through a dedicated web interface. Users can access enhanced search functionality, search for available plots for sale and also display their own plots for sale. By providing users with easy access to essential services from the comfort of their homes, it eliminates the need for unnecessary travel and waiting times. Additionally, the platform ensures seamless coordination between land owners and buyers, optimizing the overall business experience.

### 2.2 User Classes and Characteristics

The users of this car-sharing platform fall into two categories:

**Drivers:** Individuals who offer transportation services and utilize the platform to specify their current location, manage ride requests, and track passenger pickups.

**Passengers:** Individuals seeking transportation services who use the platform to search for available rides based on their starting and ending destinations, track nearby drivers, and request rides, even after the journey has begun.

In this system, drivers act as service providers, while passengers are the consumers of the transportation services.

### 2.3 System Modules:

The system comprises two main modules:

**Admin Module:** This module encompasses the functionalities of administrators who manage the overall system operations, akin to the roles of librarians.

**User Module:** This module encompasses the functions accessible to both buyers and sellers, facilitating their respective interactions and transactions within the website.

## 3. System Features

### 3.1 FUNCTIONAL REQUIREMENTS

**FR1:** Adding a new user (buyer/seller).

**Description:** This function allows the user to register themselves as a user, by entering their details into the system.

**Input:** User details

**Output:** Confirmation message

**FR2:** Searching for plot

**Description:** This function allows buyers to search for plots according to their needs.

**Input:** Plot details

**Output:** List of available plots

**FR3:** Communicating with land owner

**Description:** This function connects the buyer with the owner of the plot they are interested in .

**Input:** Search criteria

**Output:** List of available trips

**FR4:** Register land for sale.

**Description:** This function allows user to register their land a for sale

**Input:** Details of plot

**Output:** Confirmation message

**FR5:** Save for later

**Description:** This function allows user to save plots they are interested to be viewed for later

**Input:** Select plot

**Output:** Confirmation

## **3.2 NON- FUNCTIONAL REQUIREMENTS**

**NFR1:** Reliability: The system should always perform its intended functionality.

**NFR2:** Availability: The system should be always available (24x7) for performing its intended functions.

**NFR3:** Portability: The system should be able to run indifferent operating environments.

**NFR4:** Scalability: The system should be able to expand its service capabilities

## **4. OTHER REQUIREMENTS**

### **4.1 Communication**

The system should have access to GPS location services and reliable communication capabilities. It should maintain a stable internet connection for seamless operation.

### **4.2 Performance**

- The system should be responsive and provide quick access to information
- Response times for data retrieval and processing should be minimal.

### **4.3 Security**

- User authentication and authorization mechanisms must be implemented to ensure data security and privacy
- Data encryption should be used to protect sensitive information.

### **4.3 Usability**

- User interface should be easy to intuitive and easy to navigate

### **4.3 Reliability**

- The system should be reliable and available for use at all times
- Measures should be in place to handle errors and failures gracefully

## **5. Conclusion**

This Software Requirements Specification outlines the functional and non-functional requirements for the real estate management website . By adhering to these requirements, the development team can ensure the successful implementation of the proposed system, ultimately enhancing real estate business