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Software Configuration Management

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Table of Contents

1. Introduction.....	3
1.1. Purpose.....	3
1.2. Scope.....	3
1.3. Audience.....	3
2. System Requirements.....	3
2.1. Functional Requirements.....	3
2.2. Non-Functional Requirements.....	3
3. System Architecture.....	4
3.1. Technology Stack.....	4
3.2. Pages.....	4
4. Database Requirements.....	4
4.1. Tables.....	4
5. User Requirements.....	5
5.1. User Goals.....	5
5.2. Assumptions.....	5

Software Requirements Specification (SRS)

Project Title: Real Estate Website

1. Introduction

1.1. Purpose

The purpose of this document is to define the functional and non-functional requirements for a basic real estate website. The system facilitates users in exploring available properties, viewing details, and contacting property sellers.

1.2. Scope

This real estate website provides:

- A platform for users to browse property listings.
- Property details such as price, location, and description.
- A contact form for inquiries.
- A backend using PHP for handling server-side functionality.

1.3. Audience

- ❖ **Primary Users:** Prospective property buyers or renters.
- ❖ **Admin Users:** Property managers or administrators who upload property details.

2. System Requirements

2.1. Functional Requirements

- User Interface
 - Users can view the homepage with a list of properties.
 - Property details page includes images, descriptions, price, and location.
 - Contact form to submit inquiries.
- Search and Filter
 - Users can search for properties based on keywords (e.g., location, price range).
 - Filter options for property type, price range, or availability status.
- Property Management
 - Admin can add, edit, or delete property listings.
- Contact Form Handling
 - Users can submit queries through a contact form.
 - The form data is processed using PHP and stored in the database or sent via email.

2.2. Non-Functional Requirements

- Performance
 - The website should load pages within 2 seconds.

- Optimized images for faster loading.
- Security
 - Basic input validation for forms to prevent SQL Injection or XSS attacks.
 - Use HTTPS for secure data transmission.
- Compatibility
 - The website must be compatible with modern browsers (Chrome, Firefox, Edge, etc.).
- Maintainability
 - The codebase should be structured for easy updates, with clear separation of HTML, CSS, JavaScript, and PHP.
- Usability
 - The website should have a responsive design to work on desktop and mobile devices.

3. System Architecture

3.1. Technology Stack

- ★ Frontend: HTML, CSS, JavaScript (for dynamic content).
- ★ Backend: PHP for server-side operations.
- ★ Database: MySQL for storing property and inquiry data.

3.2. Pages

1. Home Page:
 - Lists properties with images, price, and a brief description.
2. Property Details Page:
 - Full details about a property, including a gallery, map location, and description.
3. Contact Page:
 - Form to send inquiries about properties.
4. Admin Panel:
 - Simple interface for managing property listings.

4. Database Requirements

4.1. Tables

1. Properties Table
 - id: Unique identifier
 - title: Property title
 - description: Property details
 - price: Price of the property
 - location: Property location
 - images: Image URLs
 - status: Available/Sold
2. Inquiries Table
 - id: Unique identifier
 - property_id: Linked to the property

- name: Name of the user inquiring
- email: Email of the user
- message: Inquiry message
- date: Date of inquiry

5. User Requirements

5.1. User Goals

- Buyers want to find and inquire about properties easily.
- Admins need a simple way to manage property listings.

5.2. Assumptions

- Users have basic familiarity with online browsing.
- Admins have basic understanding of data entry.