**RV College of Engineering®, Bengaluru – 59**

**Department of Computer Science and Engineering**

**DATABASE MANAGEMENT SYSTEMS (CD252IA)**

**Synopsis**

**REAL ESTATE MANAGEMENT SYSTEM**

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**1. Introduction**

Real Estate Management System is a web-based application, which aims at the efficient management of property listings, sales, and rentals. It allows a property agent to register, list properties, and manage client interaction. Users can browse available properties, view details, and contact agents directly from the system. The project has the aim to make real estate transactions more efficient through an intuitive, accessible, and organized interface.

**2. Existing System**

Manual real estate management still uses paper property listings, hand- written documentation, and isolated buyer-seller- agent communication. The current method has several constraints**:**

1. **Accessibility is limited:** Properties are usually confined to local agencies and print media.
2. **Communication:** Buyers have to call agents or send letters just to inquire.
3. **No real-time updates**: Information about the properties available is not updated in real time.
4. **No integrated search/filter options:** Finding a property basedon specificneeds (price range, location, size) is cumbersome.

**3. Proposed System**

The proposed Real Estate Management System overcomes these limitations by offering:

A centralized database to store property information, making it easily accessible.

Search and filter functionalities to enable users to find properties based on location, price, and other preferences.

Automated agent-buyer interactions through online inquiries.

Secure login and registration for property agents and users.

Live property status, thereby reducing the errors due to human intervention.

This system is efficient, transparent, and hence accessible in real estate.

**4.** **Relational Database Structure**

This system uses a relational database model for the storage of real estate data efficiently. These principal tables include:

Agent Table: This contains the information about agents ID, Name, Contact, and Email

Properties Table: Deals with property information with respect to ID, Title, Price, Location, Rooms Available, Availability, and Images

Users Table: Details related to user login, preferences.

The MySQL database maintains data consistency and integrity and enables quick retrieval of information related to property.

**5. Societal Concern**

The project addresses the issue of streamlining property transactions and increasing transparency in the real estate market. By digitizing property listings, it eliminates geographical barriers, makes propertysearches moreefficient, and reduces fraudulent transactions.

Further, the system can incorporate emerging technological trends such as:

AI-based suggestions on personalized property recommendations.

This project provides easy accessibility and reduces paper usage, enhances usability in the real estate domain.