



DBMS FINAL REPORT

(Real Estate Management System)

Group Members

Anum Jamshaid(FL-21477)

Shahbaz Khan(FL-21574)

Shahrukh Khan(FL-21466)

Hamza Tauqir(FL-214691)

Real Estate Management System

Description:

The Real Estate Management System is a comprehensive database project designed to streamline the management of real estate properties. This system provides four primary functions: Add, Delete, Update, and Display. Each function is tailored to enhance the efficiency and accuracy of real estate operations, ensuring seamless handling of property data. Below is a detailed description covering all aspects of the system:

Objectives:

1. Enhance Data Management:

Establish a centralized database to manage all property-related information efficiently, ensuring data integrity and consistency.

2. Improve Operational Efficiency:

Streamline the processes of adding, updating, and deleting property records, reducing the time and effort required for manual data handling.

3. Facilitate Informed Decision-Making:

Provide comprehensive and accurate property information through robust display functions, enabling stakeholders to make well-informed decisions.

4. Support Scalability and Growth:

Design the system to accommodate an expanding database as the real estate portfolio grows, ensuring long-term usability and scalability.

5. Enhance User Experience:

Develop a user-friendly interface that simplifies interactions with the database, making it accessible for users with varying levels of technical expertise.

Introduction

In the fast-paced world of real estate, managing a diverse portfolio of properties efficiently is crucial for success. The Real Estate Management System is a comprehensive database solution designed to meet this need by providing a structured and automated approach to handling property information. This system encompasses four core functions—Add, Delete, Update, and

Display—each tailored to streamline the management processes and ensure the accuracy and accessibility of data.

The primary goal of the Real Estate Management System is to enhance the efficiency of real estate operations by offering a centralized repository for all property-related information. By simplifying the addition of new properties, updating existing records, removing outdated entries, and displaying relevant data on demand, the system supports real estate professionals in making informed decisions and maintaining a competitive edge in the market.

Through this project, we aim to address the challenges faced by real estate managers in data handling, ensuring that property information is always current and reliable. The system is designed with scalability in mind, capable of accommodating a growing portfolio, and it prioritizes user experience with an intuitive interface that caters to users of varying technical expertise.

By implementing the Real Estate Management System, real estate companies can achieve significant improvements in data management practices, operational efficiency, and decision-making capabilities, ultimately leading to better business outcomes and growth in the competitive real estate industry.

Business Rules:

1. Admin Management:

- Each Admin has a unique ID.
- Admins have attributes including Name, Username, Email, Contact, Address, and Password.
- Admins can hire Agents.

2. Agent Management:

- Each Agent has a unique ID.
- Agents have attributes including Name, Email, Contact, and Address.
- Agents are hired by Admins, and each Agent is linked to one Admin (AdminID as foreign key).

3. Client Management:

- Each Client has a unique ID.
- Clients have attributes including Name, Email, Contact, and Address.
- Clients can deal with Agents, and each Client can be linked to one Agent (AgentID as foreign key).

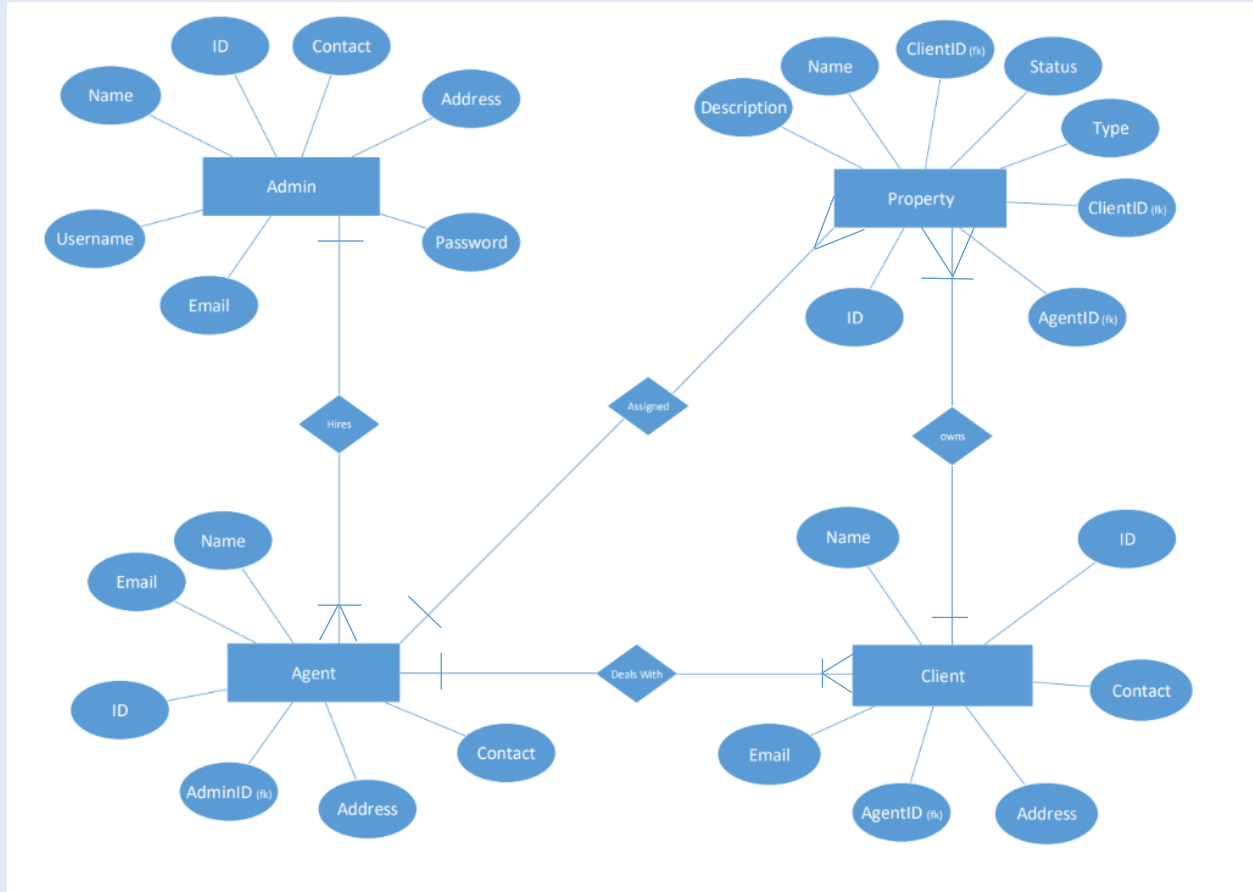
4. Property Management:

- Each Property has a unique ID.
- Properties have attributes including Name, Description, Status, and Type.
- Properties are owned by Clients, and each Property is linked to one Client (ClientID as foreign key).
- Properties can be assigned to Agents, and each Property can be linked to one Agent (AgentID as foreign key).

5. Relationships:

- Admins hire Agents (one-to-many relationship between Admin and Agent).
- Agents deal with Clients (one-to-many relationship between Agent and Client).
- Clients own Properties (one-to-many relationship between Client and Property).
- Properties are assigned to Agents (many-to-one relationship between Property and Agent).

ERD



Database Schema:

Admin:

ID(p.k)	Name	Email	Password	Address	Contact
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Agent:

ID(p.k)	Name	Email	Contact	Password	Admin_ID(f.k)
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Client:

ID(p.k)	Name	Email	Contact	Address	AgentID(f.k)
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Property:

ID(p.k)	Name	Description	Price	Status	Type	AgentID(f.k)	ClientID(f.k)
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Conclusion

The Real Estate Management System represents a significant advancement in the management of real estate properties, offering a robust and user-friendly solution to streamline various aspects of property data handling. With its four key functions—Add, Delete, Update, and Display—the system ensures that all property information is maintained accurately and efficiently.

By providing a centralized database, the system enhances data integrity and consistency, enabling real estate professionals to manage their portfolios with greater ease and precision. The ability to quickly add new properties, update existing records, remove obsolete entries, and retrieve relevant information on demand supports informed decision-making and strategic planning.

Moreover, the Real Estate Management System is designed to be scalable, accommodating the growth of property portfolios over time. Its intuitive interface makes it accessible to users with different levels of technical expertise, promoting widespread adoption and effective utilization.

In conclusion, the implementation of the Real Estate Management System is poised to transform the way real estate data is managed. By improving operational efficiency, supporting informed decision-making, and ensuring scalability, the system provides a solid foundation for real estate companies to achieve better business outcomes and thrive in a competitive market. This project underscores the importance of leveraging technology to enhance real estate management practices and drive industry success.