

LIMITLESS ESTATE

DATABASE DESIGN



**Introduction:**

A limitless estate database design allows for the storage and management of a vast amount of estate-related data, accommodating the ever-growing volume of information as the database expands. By adopting a limitless design approach, the database can easily adapt to changing requirements and accommodate new types of estate-related data without significant restructuring or limitations.

**Abstract:**

This project focuses on the development of a website designed to support CP-Firms within the real estate ecosystem in effectively managing their customers and facilitating the process of finding their ideal homes. The website aims to significantly enhance the overall client relationship experience by offering a comprehensive platform that integrates marketing automation, pre-sales management, and advanced real estate CRM software. By consolidating these features into a single platform, the website enables CP-Firms to store and manage customer data in an organized manner, streamlining data management processes and optimizing client interactions. The ultimate goal of this project is to provide CP-Firms with a powerful tool that enhances efficiency, improves customer satisfaction, and fosters success within the real estate industry.

**Goals:**

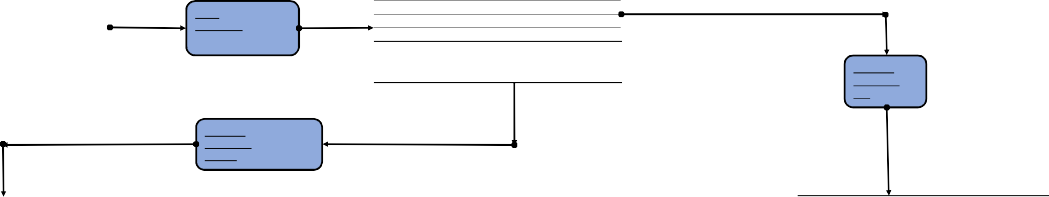
1.Develop a user-friendly website that provides a seamless experience for CP-Firms and their clients, focusing on intuitive navigation, clear information presentation, and easy accessibility to essential features.

2.Integrate advanced real estate CRM software that centralizes customer data, allowing CP-Firms to access comprehensive profiles, preferences, and communication history, enabling personalized and targeted interactions with clients.

3.Enable secure and organized data storage, ensuring that customer information is safely stored and easily accessible to authorized personnel, minimizing the risk of data loss or mishandling.

4.Provide analytics and reporting capabilities to gain insights into customer behavior, and sales performance, empowering CP-Firms to make data-driven decisions and optimize their strategies.

5.Improve operational efficiency for CP-Firms by automating repetitive tasks, simplifying data management, and streamlining workflows, reducing manual efforts and enhancing productivity.



**Address have region**

**Address have City**

**Agents Responsible for**

**Clients’ transaction regarding property reflected in sales**

**Property after buying reflected in sales**

**Show Properties**

**Property Belongs to City**

**Property Belongs to Region**

|  |  |  |  |
| --- | --- | --- | --- |
| **Enitity : - Clients** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| client\_first\_name | varchar(20) |  |  |
| client\_last\_name | varchar(20) |  |  |
| client\_email | varchar(30) |  |  |
| client\_contact | int |  |  |
| pefer\_location | varchar(15) |  |  |
| budget | decimal(10,2) |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity: - Sales** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| property\_id | int | foreign |  |
| client\_id | int | foreign |  |
| agent\_id | int | foreign |  |
| sale\_price | decimal(10,2) |  |  |
| sale\_date | date |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity:- Admins** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
|  |  |  |  |
| admin\_first\_name | varchar(10) |  |  |
| admin\_last\_name | varchar(10) |  |  |
| admin\_email | varchar(20) |  |  |
| admin\_login\_id | int |  |  |
| admin\_password | varchar(10) |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity: - Property** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| proprty\_name | varchar() |  |  |
| price | decimal(10,2) |  |  |
| no\_of\_bedrooms | int |  |  |
| no\_of\_flats | int |
| carpet\_area | int |
| amenities | varchar(100) |
| agent\_id | int | foreign |  |
| city\_id | int | foreign |  |
| region\_id | int | foreign |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity: - Agents** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| agent\_first\_name | varchar(10) |  |  |
| agent\_last\_name | varchar(10) |  |  |
| agent\_email | varchar(30) |  |  |
| agent\_contact | varchar(15) |  |  |
| agent\_location | int | foreign |  |

ENTITY RELATIONSHIP DIAGRAM

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity: - Region** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| region\_name | varchar(15) |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity: - Address** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| city\_id | int | foreign |  |
| region\_id | int | foreign |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity: - City** | | | |
| **Fields** | **Data Type** | **Key** | **Extra** |
| id | int | primary | auto\_increment |
| city\_name | varchar(15) |  |  |

Above E-R Diagram shows that database of Limitless Estate system consist of following entities:

* clients : -

This entity contains the id, client\_first\_name , client\_last\_name , client\_

email , client\_contact , prefer\_location and budget

* property :-

This entity contains id, property\_name, price, no\_of\_bedrooms, no\_of\_flats, carpet\_area, amenities, agent\_id, city\_id, region\_id

* agents :-

This entity contains id, agent\_first\_name, agent\_last\_name, agent\_email, agent\_contact, agent\_location

* sales :-

This entity contains id, property\_id, client\_id, agent\_id, sale\_price, sale\_date

* citties :-

This entity contains id, city\_name

* regions :-

This entity contains id, region\_name

* addressess :-

This entity contain id, city\_id, region\_id

* admins :-

This entity contain id, admin\_first\_name, admin\_last\_name, admin\_email, admin\_login\_id, admin\_password

**Database design:-**

1. **clients**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| client\_first\_name | varchar(20) | No |  |  |  |
| client\_last\_Name | varchar(20) | No |  |  |  |
| client\_email | varchar(30) | No |  |  |  |
| client\_contact | int | No |  |  |  |
| prefer\_location | varchar(15) | No |  |  |  |
| budget | decimal(10,2) | No |  |  |  |

1. **regions**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| region\_name | varchar(15) | No |  |  |  |

1. **cities**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| city\_name | varchar(15) | No |  |  |  |

1. **addresses**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| city\_id | int | No | foreign |  |  |
| region\_id | int | No | foreign |  |  |

1. **properties**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | Auto\_increment |
| property\_name | varchar(20) | No |  |  |  |
| price | decimal(10,2) | No |  |  |  |
| no\_of\_bedrooms | int | No |  |  |  |
| no\_of\_flats | int | No |  |  |  |
| carpet\_area | int | No |  |  |  |
| amenities | varchar(100) | No |  |  |  |
| agent\_id | int | No | foreign |  |  |
| city\_id | int | No | foreign |  |  |
| region\_id | int | No | foreign |  |  |

1. **agents**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| agent\_first\_name | varchar(10) | No |  |  |  |
| agent\_last\_name | varchar(10) | No |  |  |  |
| agent\_email | varchar(30) | No |  |  |  |
| agent\_contact | varchar(15) | No |  |  |  |
| agent\_location | int | No | foreign |  |  |

1. **sales**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| property\_id | int | No | foreign |  |  |
| client\_id | int | No | foreign |  |  |
| agent\_id | int | No | foreign |  |  |
| sale\_price | double(10,2) | No |  |  |  |
| sale\_date | date | No |  |  |  |

1. **admins**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Field** | **Type** | **Null** | **Key** | **Default** | **Extra** |
| id | int | No | primary |  | auto\_increment |
| admin\_first\_name | varchar(10) | No |  |  |  |
| admin\_last\_name | varchar(10) | No |  |  |  |
| admin\_email | varchar(20) | No |  |  |  |
| admin\_login\_id | int | No |  |  |  |
| admin\_password | varchar(10) | No |  |  |  |