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Project Title: “Rental Agency System”

Abstract

Today we are living in an advance era surrounded with technology. So, every system needs a database in which we can store its data and we can retrieve it easily. So does a rental agency for its data to be store and retrieve smoothly. Just think if a rent agency agent must keep the record of more that 1000 houses and their owners and whom he has rented the house it would be hard to keep the record and to retrieve data from those record. So many data would be lost just because of it.

Thus, we applied the knowledge of Database System that we gained in the class and using our previous experience with python we develop an App that cover up such a problem in a Rental Agency.

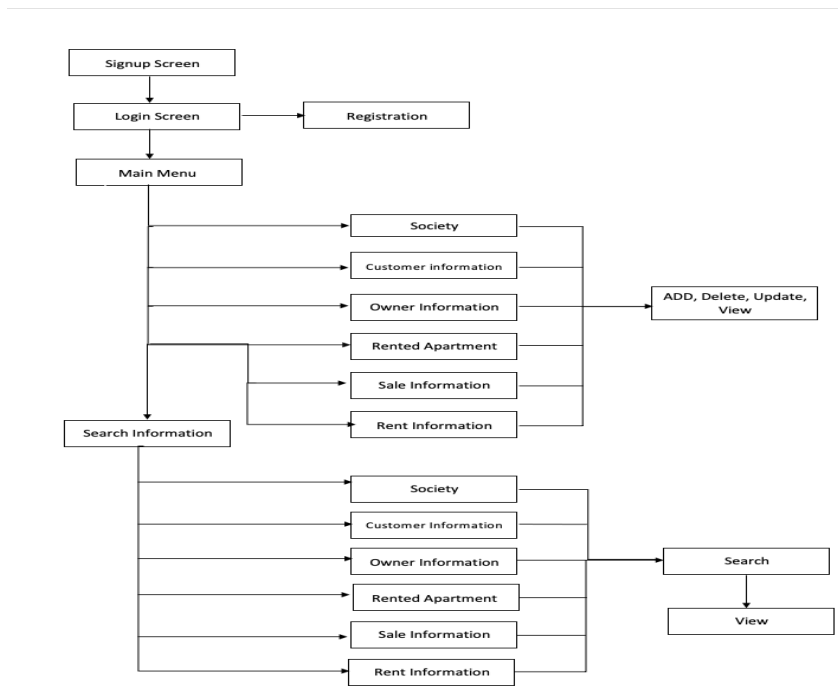
Introduction

This project is designed to manage the record in a rental agency. The records of Societies, Rented Houses, House for Sale, Customers, Owners etc are being stored in the database. We can perform all basic three function on these record Addition, Deletion, Updating. We can also individually search for the record of anything from the database easily. The agent can easily maintain the record of everything easily and can also retrieve them for them database. We also provide graphic user interface so that the user can easily use the Application.

Objective

1. The main objective of our rental system is to maintain the records of Societies, Owner, Customer, House, or Apartments on rent, also for sale and those who are rented to a customer
2. It helped the user who is a property agent to main the records of all entities easily.
3. It helps the user to get the record faster for their client without any delay.
4. This system increases the efficiency in a rental agency and better management of the agency.
5. Adding a new record and fetching the old record in the records is easy.
6. This system completely automates all your agency activities.

Project Breakdown



Project Description

The backend was created by using SQL Server as IDE and SQL as the programming language. For our frontend, we use python programming language. In which we use tkinter library which give us many options to create an interactive interface for the user. We connect our local host database with python code and using python user interface we are performing queries on the database.

We have main seven Entities in which we are storing our Data. We can perform **Addition, Deletion, Updating, Searching** on these 6 Entities while the 7th Entity Usertable only store the username and password data of the admin required for the login.

- **Society**
This table will store the information of all the Societies and description of the societies.
Primary Key: Society_name
- **Owner**
This table will store the information of all the owner who owned a house or an apartment
Primary Key: cnic
- **Customer**
This table will store the information of all the customer who has rented a house or an apartment
Primary Key: cnic
- **For Sale House and Apartment**
This table will store the information of all the houses and apartments that are for sale.
Primary Key: Apartment_ID
- **For Rent House and Apartment**
This table will store the information of all the houses and apartments that are for sale.
Primary Key: Apartment_ID
- **Rented House and Apartment**

This table will store the information of all the houses and apartments that are rented.

Primary Key: None

- **Usertable**

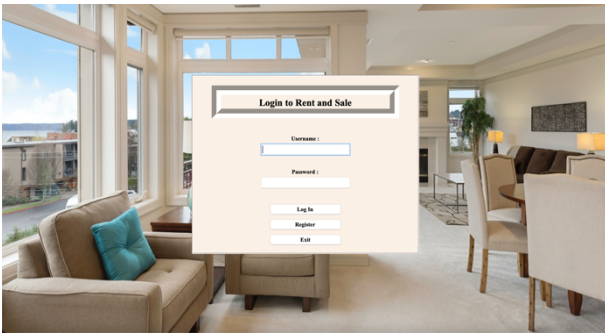
This table will store the information of the admin Username and his login Password that are required for login.

Primary Key: password

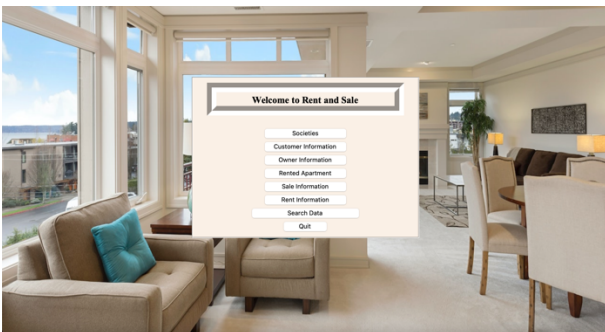
Methodology



First this window will open after clicking the login button another window will open in where we can login.



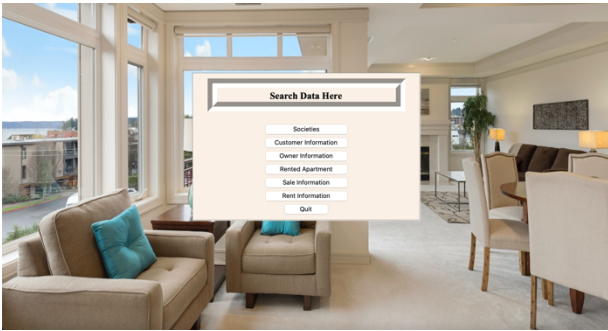
In this window we will enter the username and password so that we can login in. If the password or username is incorrect it will show us and error that the username or password is invalid.



If the username and password is correct, then the main menu windows will open in which each table is show by a button by clicking on that button we can manipulate the data in these tables and also, we have a button for the search where we can search the data individually from a table.

Society Name		Society Information			
Rating					
Sector					
Market					
Location					
Consist Of					
Add	Delete	Update	Main Menu		
Society Name	Rating	Sector	Market	Location	Consist Of
A	None	None	None	None	None
Asdsk 11	None	None	None	None	None
B	None	None	None	None	None
C	None	None	None	None	None
D	None	None	None	None	None
Dha	1.0	1	3	partition	house and apartment
Dha phase 5	1.0	1	1	flat	flat
E	None	None	None	None	None
F	None	None	None	None	None
G	None	None	None	None	None
H	None	None	None	None	None
I	None	None	None	None	None
J	None	None	None	None	None
K	None	None	None	None	None
L	None	None	None	None	None
M	None	None	None	None	None
N	None	None	None	None	None
O	None	None	None	None	None
P	None	None	None	None	None
Q	None	None	None	None	None
R	None	None	None	None	None
S	None	None	None	None	None

If we click in the society button or any other button, we will see a window like where we can Add, Delete and Update the data in the table. We are also showing the present data available in the table.



If we click on the search button, then a search window will pop up in which we can see a list of buttons representing the tables. In this window we can search our desired data from any table individually.

After clicking the button of any table, we will see a window like this here will we insert the data we want to search from the table and then search it.

Society Name	Rating	Sector	Market	Location	Consist Of
Alfa	1.0	2	3	pakistan	house and apartment

Now if we enter the data we want to search and press the search button then we will see all its related data in the form of column and row.

Conclusion

The project computerizes the work in a rental agency, it is more convenient than manual system. The computerization makes the managing process fast, safe, and reliable. The program is thoroughly checked by entering dummy data, it works as per the requirement performing all function. The program is great for a small rental agency. In future we will make this program more efficient by creating proper relationship between the data, gave it a better user interface and creating a user window from which user can also easily rent an apartment rather than coming to the rental agency and more features like this.