

Title: Home Sweet Home

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Introduction

Our project deals with all the types of land property, be it plot, flats, houses, or rents. With a user-friendly interface, any buyer or seller can easily operate this. Using various concepts of **Object Oriented Programming and Standard Template Library**, the project will be made. A track record of all the sellers, buyers, Landlords, will be there, adding to this, availability of properties, payment check, will be available. All this will be governed by a legal advisory also. All the finances will be managed smoothly with different functions. At the end customer satisfaction is the most important, the project will include a separate space for feedback and suggestions from the buyers as well as sellers.

Key Features Of The Project

- 1) Since, the code we wrote is purely based on the concepts of OOPs therefore the code is completely **reusable**.
- 2) The code takes care of the privacy of the user. With the use of **data hiding** and **abstraction** mechanisms, we are filtering out limited data to exposure, which means we are maintaining security and providing necessary data to view.
- 3) Our code can be **easily maintained**. It is always easy and time-saving to maintain and modify the existing codes by incorporating new changes into them.
- 4) The code is written in such a way that will **enhance the overall productivity** of the complete project. This leads to more work done, finishing a better program, having more inbuilt features, and easier reading, writing and maintaining.
- 5) We have used the **data-centered design approach** which enables us to capture more details of a model in implementable form.
- 6) Since the **design of the project is modular** therefore, part of the system can be updated in case of issues without a need to make large-scale changes.
- 7) The use of **Standard Template Library** has shortened the code and increased the readability of our project.

Objectives

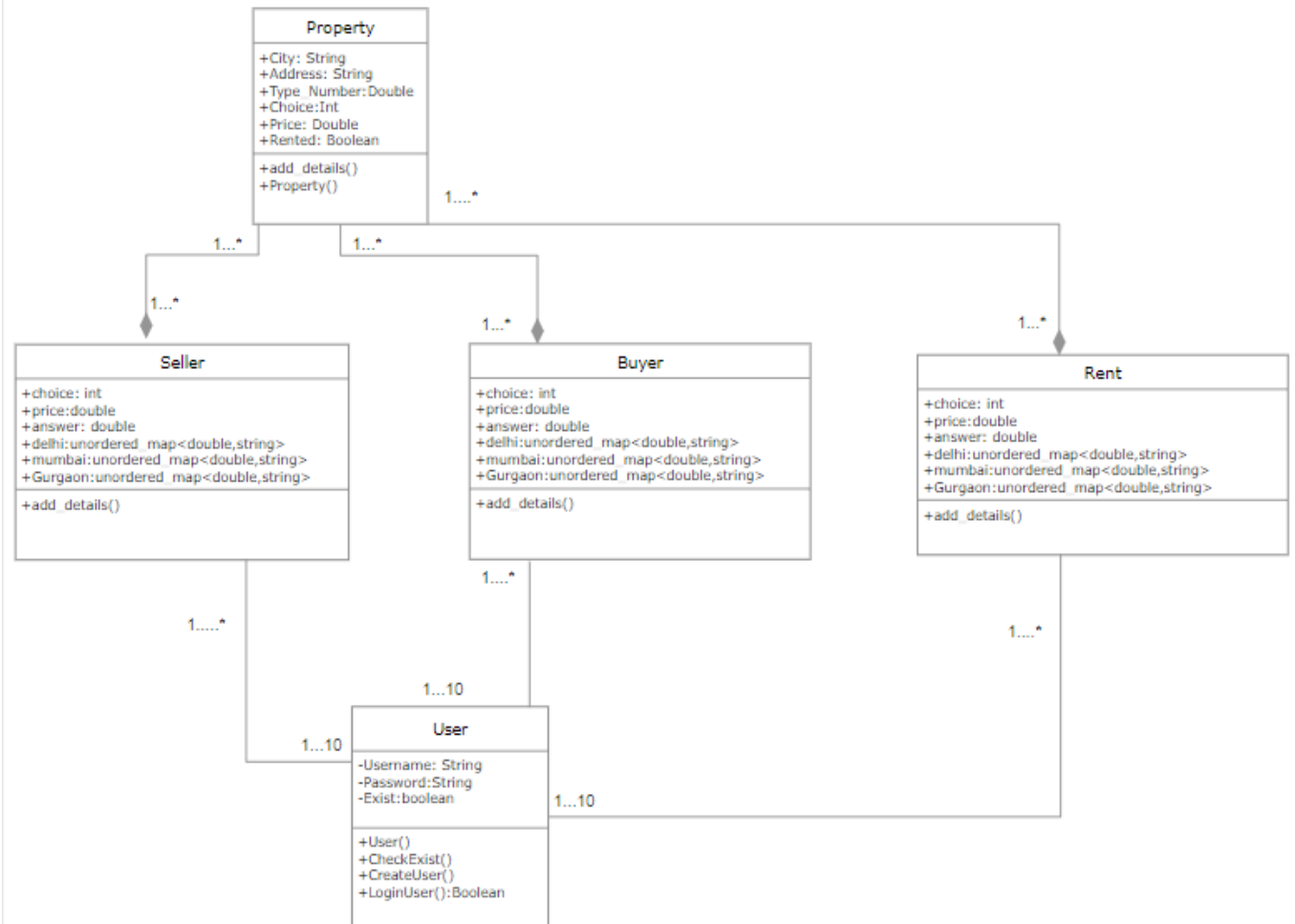
The objective of the project is to simplify the procedure of different aspects of property dealing, like renting, buying, etc.

- 1) It can filter out the location and type of house you want to sell, buy or rent.
- 2) It can filter out the price, and show you the best product which will suit your requirements.

We had made a UML Class diagram for our Project since it

- 1) Helps in better and accurate illustration of the data models, irrespective of the level of complexity involved with the **classes** and the data.
- 2) It helps with easier and clear understanding of the overview and the **schematics** involved with the overall system or the process.
- 3) Helps in **rendering the creation** of better dealing with the charts for better results and outcomes in the understanding of the prospect involved in the system.
- 4) Allows the individuals to come to the conclusion of the kind of **implantation procedures** required in the system for better outcomes.
- 5) Allows the person to go forth in **preparing a visual representation** of the overall needs and requirements involved in the system that further helps to disseminate any kind of information involved with the business.

Class Diagram



Result and Discussions

Firstly, register yourself and then login in our corporation.

```
"I still think buying a home is the best investment any individual can make." - John Paulson, Billionaire

WELCOME TO HOME SWEET HOME CORPORATION

LOOKING FOR YOUR DREAM HOUSE? DON'T WORRY, WE ARE HERE TO HELP!

1. User Register
2. User Login
3. Exit
Enter choice: 1_
```

```
Enter username: vivek
Enter password: vivek
Confirm password: vivek

Successfully added user
_
```

```
1. User Register
2. User Login
3. Exit
Enter choice: 2_
```

Now choose according to your needs(Buy/sell/rent/delete user/logout).

```
Enter username: vivek
Enter password: vivek
Logged in successfully
1. Buy
2. Sell
3. Rent
4. Delete User
5. Logout
Enter choice: 1
```

Now choose your preferred location.

```
Enter your preferred location
1) Mumbai
2) Gurgaon
3) Delhi
Choose preferred city number
1
```

Now select the house according to your preference.

```
Enter your preferred location
1) Mumbai
2) Gurgaon
3) Delhi
Choose preferred city number
1
Available options are:
Price  Address
340000 - flat no.401,East Bandra,Mumbai
190000 - Flat no.302,Santa Cruz,Mumbai
120000 - Flat no.201, West bandra,Mumbai
Enter the price of the preferred property
```

Now if you want this deal to be done select yes else no.

```
Enter your preferred location
1) Mumbai
2) Gurgaon
3) Delhi
Choose preferred city number
1
Available options are:
Price  Address
340000 - flat no.401,East Bandra,Mumbai
190000 - Flat no.302,Santa Cruz,Mumbai
120000 - Flat no.201, West bandra,Mumbai
Enter the price of the preferred property
340000
Your preferred property is flat no.401,East Bandra,Mumbai
Do you want to confirm ?
1) Yes
2) No
1
```


You can again choose various options now or else you can logout.

```
1. Buy
2. Sell
3. Rent
4. Delete User
5. Logout
Enter choice: 2
```

Now choose your preferred location and sell your house.

```
Enter your preferred location:
1) Mumbai
2) Gurgaon
3) Delhi
Choose preferred city number:
1
Your preferred location is Mumbai
Enter address
420 dalanwala
Enter price
690000
```

You can again choose various options now or else you can logout.

```
Enter username: vivek
Enter password: vivek
Logged in successfully
1. Buy
2. Sell
3. Rent
4. Delete User
5. Logout
Enter choice: 3
```

Now choose your preferred location and take a house on rent.

```
Enter your preferred location
1) Mumbai
2) Gurgaon
3) Delhi
Choose preferred city number
2
Options available for renting are:
Price  Address
340000 - Flat no.456 ,Raheja Apartment, Gurgaon
250000 - House No.45,Sushant Lok-II, Gurgaon
170000 - House No.312,Sector 40 , Gurgaon
Enter the price you can pay for the rent :
250000
Your preferred property is  House No.45,Sushant Lok-II, Gurgaon
Do you want to confirm ?
1) Yes
2) No
1
```

You can also add multiple users which can buy, sell or take a house at rent simultaneously.

In this output one user is vivek(which is already logged in) and other is abhishek.

```
Enter username: abhishek
Enter password: dhiman
Confirm password: dhiman

Successfully added user
```

Conclusion

The project uses the core concepts of Object Oriented Programming and also uses some of the features of Standard Template Library.

The project is made in such a way that anyone can easily understand and make their work done easily and much faster.

No-one from the outside can make any changes in the system since the project uses concepts such as data hiding and abstraction.

It also solves the problem of handling multiple users at the same time. Multiple users can sell/buy/rent their property simultaneously without any risks and the changes made after any user save their property will be reflected at the time, when any other user want to buy/sell/rent their property. Our project handles multiple situations based on real life scenarios and also takes care of the most important thing which is the user's privacy.

Hence, this project handles all the real life cases very efficiently and makes the users experience amazing.
