Estate Express

MC122 PROJECT

Group Members:

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1. Introduction:

Ambition: -

The ambition of our application is to help people to buy the correct property for them, according to their budget and according to their requirements.

Application: -

The Java-based project adopts the approach of object-oriented programming to facilitate user-friendly property transactions. Users can seamlessly register or log in, list properties, conduct searches, and initiate secure transactions within the application. The system allows users to input their specific property requirements, and the system will find them a perfect match.

In addition to property searches, users can effortlessly sell their properties by providing essential details at a fair market price. The application offers the flexibility of buying and selling properties, enhancing the overall user experience.

The primary goal of this project is to streamline the property transaction process, providing users with a convenient platform that prioritizes user satisfaction. Through thoughtful implementation of object-oriented principles, the application

ensures a seamless experience for both buyers and sellers in the real estate market.

2. Implementation:

To fulfil our goal, we have made a User class through which we provide the user the facility of signup or login and to store this data we have made a Userdata class which extends the user class in which we have made array list to do the same.
After completing the login process the system provides 4 options to the user

1. **List your property**:   In this function user can sell his or her property by submitting the details related to the property. After submitting the details our system list this property in the Property array list which present in the property data class.

2.**Purchase property:** In this function system asks the details from the user according to his or her requirement and find the perfect match and provide the list of some properties from which he or she can select the property as per their needs. Now you are thinking that from where we provided this data, the answer is we have made the array list in which we have store the data of about 2000 properties.

3.**User Credentials**: In this function user can see his\her details that was entered at the time of registration, in case if

they have made any changes (using edit function) in them or if they forgot.

4.**Edit Credentials:** In this function user can edit his\her credentials as per there need. Here we have provided the option to edit most of the data except the username.

That completes the functionality of our program now let see the output.

3. Output:

Let us first see the welcome page:

```
***Welcome to Estate Express***
1. Login
2. Signup
3. Exit
```

Now the user has to signup first with correct credentials and a strong password you can see here that if wrong data type or the wrong size of data entered the system catch it and throw the instruction, this is done using the exception handling and if statements.

```
1. Login
2. Signup
3. Exit
Enter your choice: 2
Enter username: Avish
Enter phone number: asdfgh
Enter the valid Phone Number(length=10)
Enter phone number: 123456
Enter the valid Phone Number(length=10)
Enter phone number: asdfghjkli
Enter the valid format of phone number
Enter phone number: 1234567890
Enter G-mail: alsjfkdj
Enter the valid G-mail Account(it should be in @gmail.com format)
Enter G-mail: asd@daiict.ac.in
Enter the valid G-mail Account(it should be in @gmail.com format)
Enter G-mail: asd@gmail.com
Enter your password: sdfghj
Invalid password!(It should contain at least 8 characters with Small,Capital and Numeric letters )

Enter your password: 123456789
Invalid password!(It should contain at least 8 characters with Small,Capital and Numeric letters )

Enter your password: ASDFGHJ
Invalid password!(It should contain at least 8 characters with Small,Capital and Numeric letters )

Enter your password: Avish@123
User created successfully!
```

Here you can see that if user enter the data which is out of range or not of the same type then system throws the instructions and this is done in whole program using exception handling

```
1. Login
2. Signup
3. Exit
Enter your choice: 5
Invalid choice.
1. Login
2. Signup
3. Exit
Enter your choice: 1.2
Enter the correct format of data
Invalid choice.
```

Now you have to login to your account, entering the correct user name and passwords. If they are not correct then system will not allow you.

Here you can see:

1. Wrong user and passwords ---->

2. Correct username but wrong password ----->

3. Wrong username and correct password ----->

4. If both are correct then we got entry ----->

```
1. Login
2. Signup
3. Exit
Enter your choice: 1
Enter username: abc
Enter password: A123asfg
Wrong Username or Password
1. Login
2. Signup
3. Exit
Enter your choice: 1
Enter username: Avish
Enter password: a123asdf
Wrong Username or Password
1. Login |
2. Signup
3. Exit
Enter your choice: 1
Enter username: abc
Enter password: A@2004jain
Wrong Username or Password
1. Login
2. Signup
3. Exit
Enter your choice: 1
Enter username: Avish
Enter password: A@2004jain
Welcome Avish
```

Now after login we got these four options as we discussed above. Here we choose option 1 List your property which helps user to sell his/her property. Here you can see that some details are asked from user about his/her property to add it in our list for selling.

```
1. List your Property
2. Purchase Property
3. View your details
4. Edit Credentials
5. Go back
1
Enter the appropriate number of your property type :
1. Residential
2. Commercial
3. Industrial
4. Raw Land
1
Enter the appropriate number of your property type :
1. Ahmedabad
2. Anand
3. Bhavnagar
4. Gandhinagar
5. Jamnagar
6. Junagadh
7. Kutch
8. Rajkot
9. Surat
10. Vadodara
1
Enter the Plot Area of your property (>=500 sqm): 240
Enter the Plot Area of your property (>=500 sqm): 550
Enter the price at which you want to list: 123456
Enter the location of your property: kalupur
Your Property has been listed Successfully
```

Here we go for option 2 which is Purchase property here you can see that we are asking the requirements of the user to find a perfect property for him/her. Here you can see that after entring all details 3 properties are shortlisted form which he/she can select as per there needs.

```
1. List your Property
2. Purchase Property
3. View your details
4. Edit Credentials
5. Go back
2

Select the Price Range
1. 0-500000
2. 500000-2000000
3. 2000000-5000000
4. 5000000-10000000
2

Select the City:
1. Ahmedabad
2. Anand
3. Bhavnagar
4. Gandhinagar
5. Jamnagar
6. Junagadh
7. Kutch
8. Rajkot
9. Surat
10. Vadodara

5
```

```
Select the Range of Property Area:
1. 500-1000
2. 1000-5000
3. 5000-10000
2

Select the type of property
1. Residential
2. Commercial
3. Industrial
4. Raw Land
2

1. 332
price: 1553902
city: Jamnagar
property type: Commercial
plot area: 1704
location: Civil Hospital Area

2. 698
price: 1999948
city: Jamnagar
property type: Commercial
plot area: 195
location: Cotecha Chowk

3. 863
price: 634576
city: Jamnagar
property type: Commercial
```

Here you can see that there is a option weather he/she wants to buy or not, and if yes you can select the particular index to book.

```
Enter 1 to buy a property and enter 2 for not
1
Enter the index of the property that you want to buy
1
698
price: 1999948
city: Jamnagar
property type: Commercial
plot area: 195
location: Cotecha Chowk

Please deposit the required payment on our official website to book the property
Or contact to our official number for more details

Thank you for choosing our platform
```

In option 3 you can see you personal details which was entered at the time of registration or edited using option 4.

```
1. List your Property
2. Purchase Property
3. View your details
4. Edit Credentials
5. Go back
3
Your credentials
Name: Avish
Mobil NO.: 1234567890
Email: abc@gmail.com
```

Now finally, option four it provides the facility to the user change his/her credentials for security purposes or as per there requirements. Here you can also see that user is asked to enter the current password first for the security purposes. After this you have to login again.

And here you can see the changes.

```
1. List your Property
2. Purchase Property
3. View your details
4. Edit Credentials
5. Go back
4
Enter your current password : asdfghj
Please enter correct password
Enter your current password : A@2004jain
Change detail :
1. Phone number
2. Email id
3. Password
1
Enter new phone number: 0987654321

For further edits press 1 else 2
1
Changes Saved Succesfully !!
Change detail :
1. Phone number
2. Email id
3. Password
2
Enter New G-mail: avish@gmail.com
For further edits press 1 else 2
2
Changes Saved Succesfully !!
```

```
Your credentials
Name: Avish
Mobil NO.: 0987654321
Email: avish@gmail.com
```

That's All from Our Side

THANK YOU