

## **Exp. 1: PROBLEM DEFINITION**

### **PROPERTY MANAGEMENT SYSTEM**

This is a basic system that will keep record of housing properties available on rent or for sale, and will work as connecting bridge between customer and property sellers.

Due to this system there is no need to visit various places in search of desired property. The information of various properties in various locations can be accessible at one place.

This system will provide a platform to home line property sellers and buyers. This will keep record of land, houses or flats available for sale or on rent with their rates and make this available to customers. Also will keep record of contact information of customer and will send necessary notices and/or reminders to customer.

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## **Exp. 2: REQUIREMENTS ANALYSIS**

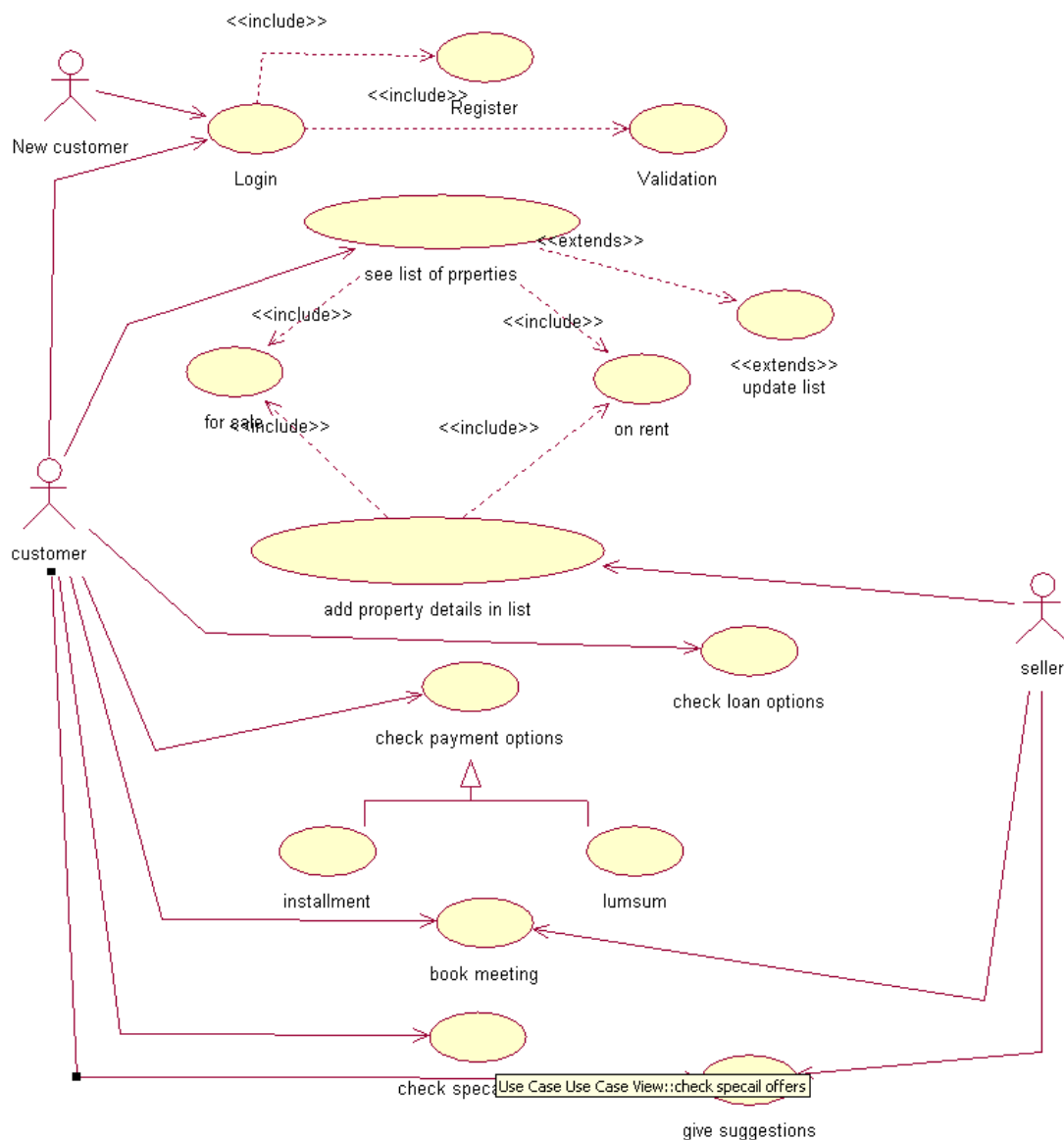
### **FUNCTIONAL REQUIREMENTS:**

- Register.
- Validation.
- Keep clients record.
- Add property details.
- Provide the list of properties with necessary information.
- Loan options.
- Payment options.
- Special offers.
- Book appointment.
- Accept suggestions.

### **NON-FUNCTIONAL REQUIREMENTS:**

- Improve the search facility and all users of property management system should get all the information in a second.
- The application should support the capability to use multi user environment.
- Display search result in one second.
- Update the list every hour.
- System should be available 24\*7.

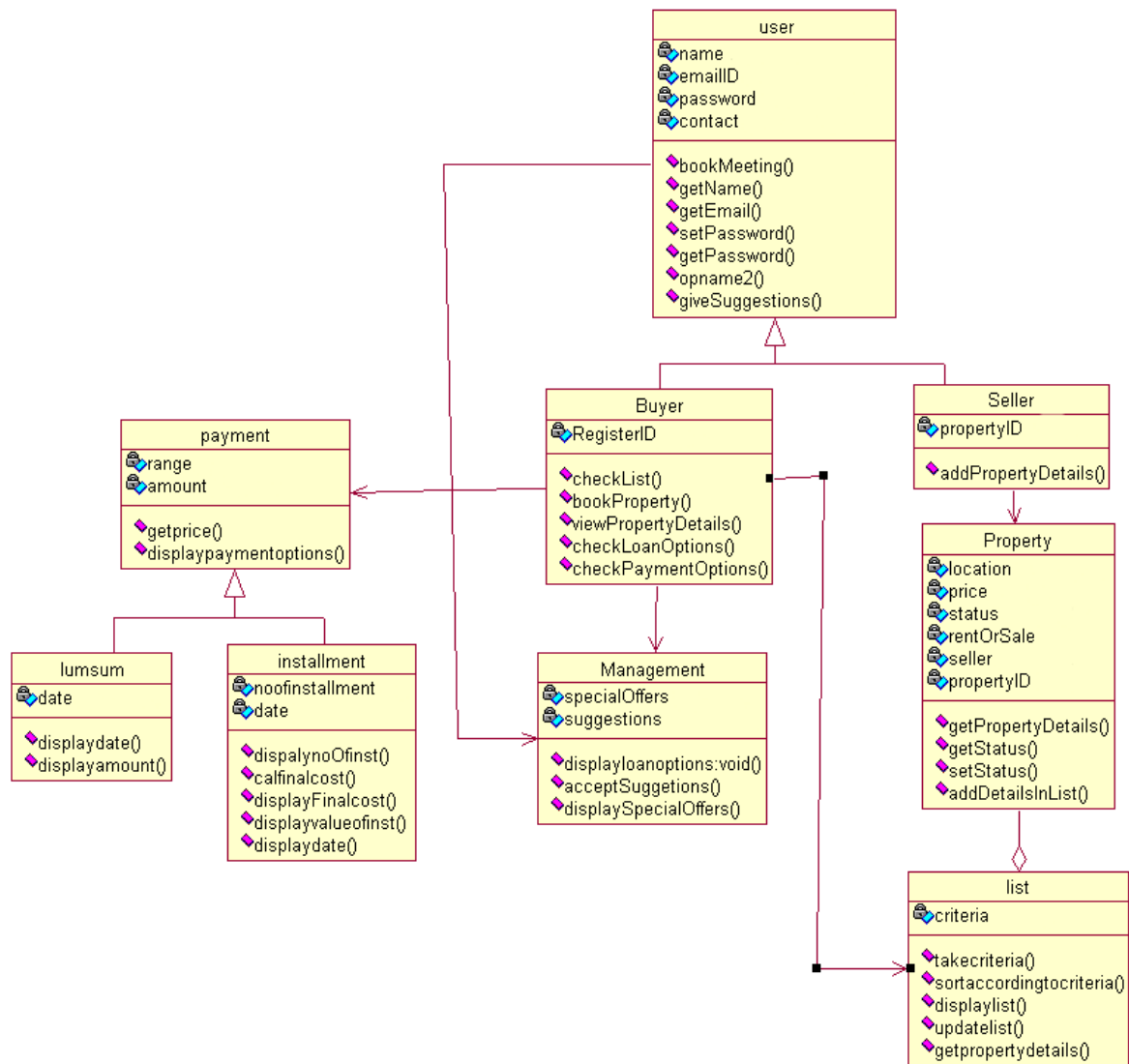
### **Exp. 3: USE CASE DIAGRAM**



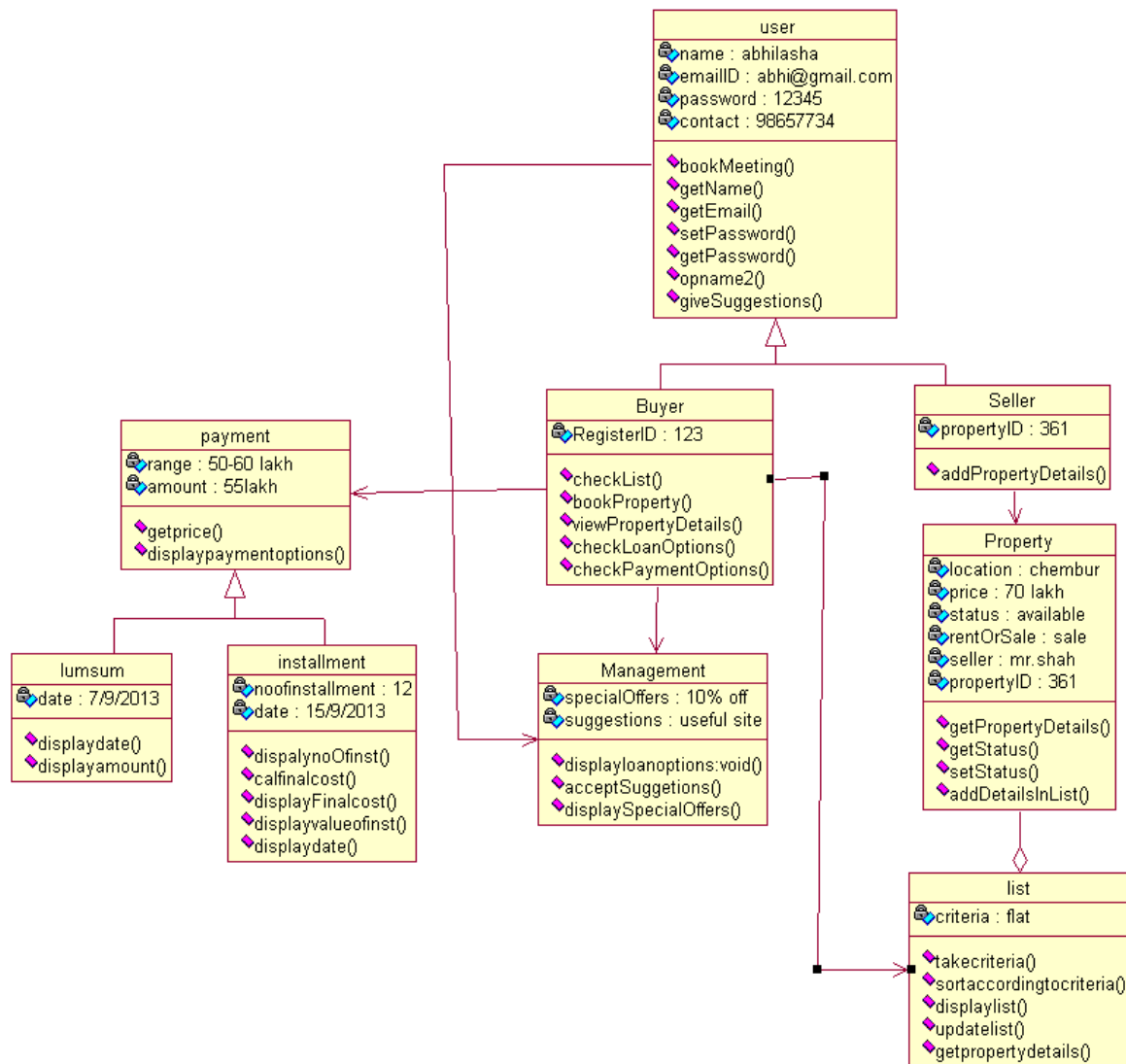
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## Exp.4: STRUCTURAL DIAGRAM

### CLASS DIAGRAM:

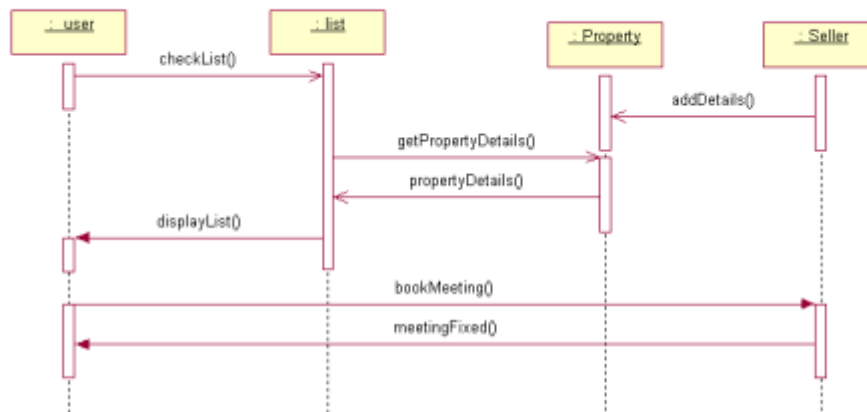


## OBJECT DIAGRAM:



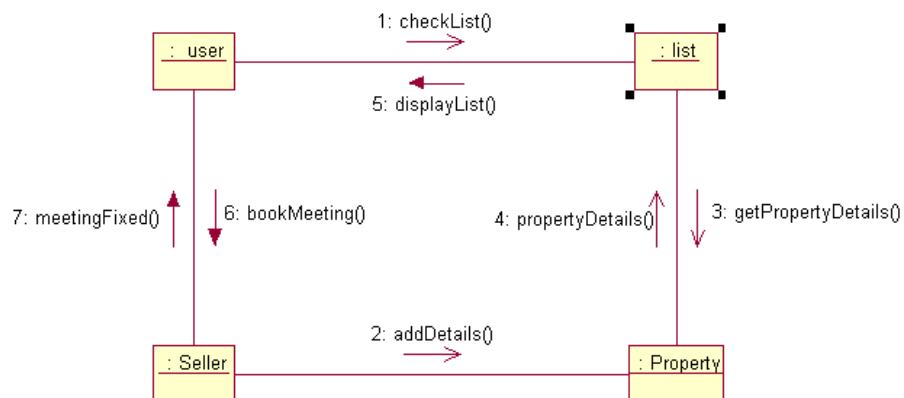
## Exp.5: INTERACTION DIAGRAM

## SEQUENCE DIAGRAM:



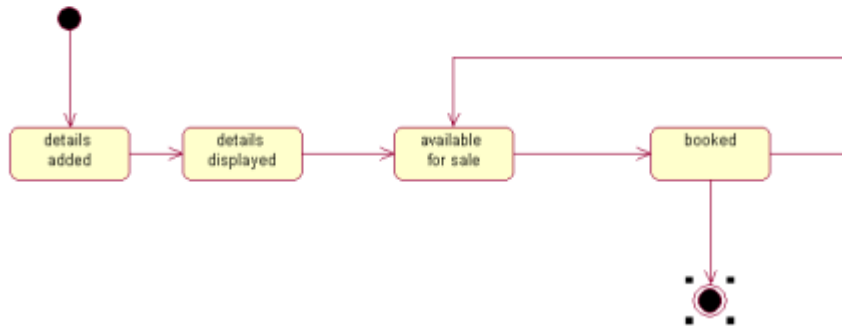

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### COLLABORATION DIAGRAM:

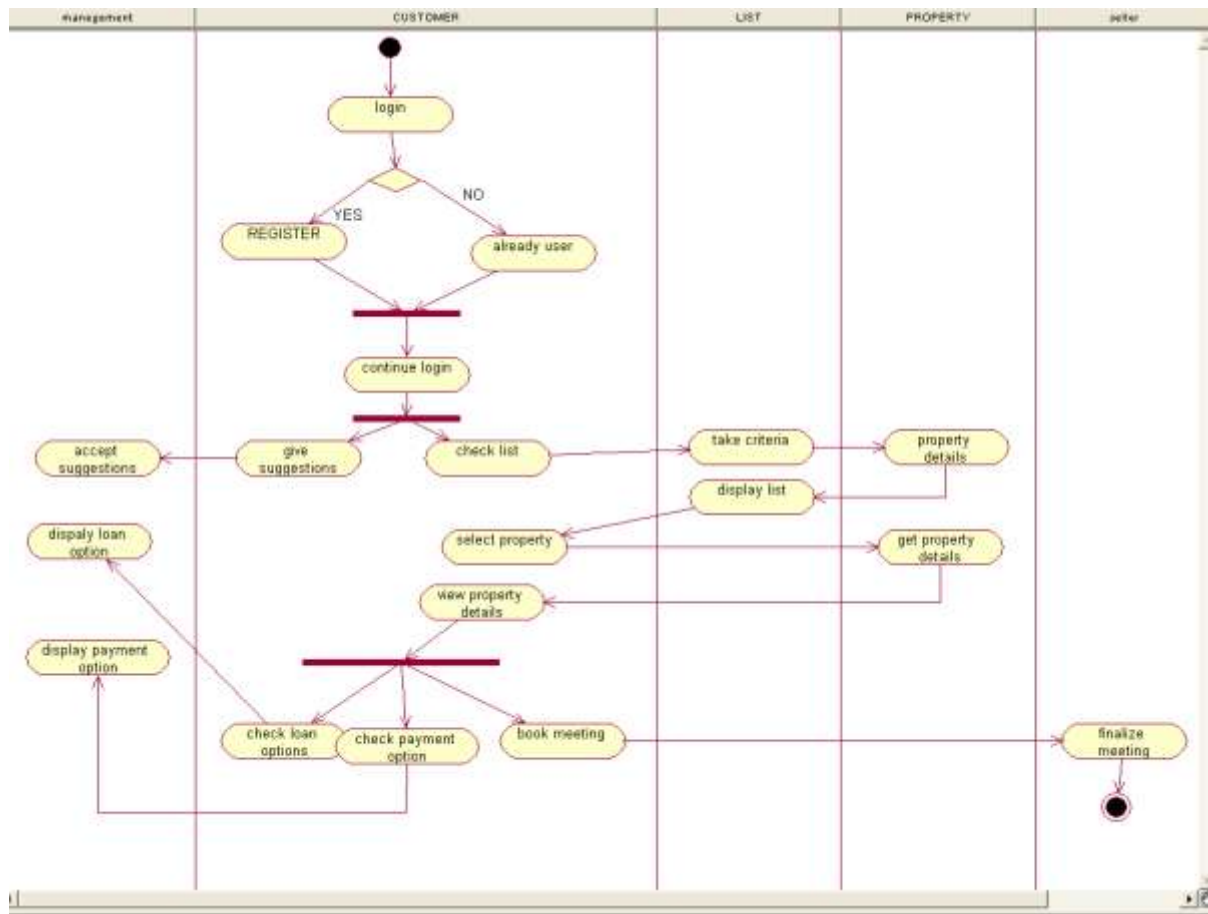


## Exp.6: BEHAVIORAL DIAGRAM

### STATE DIAGRAM:

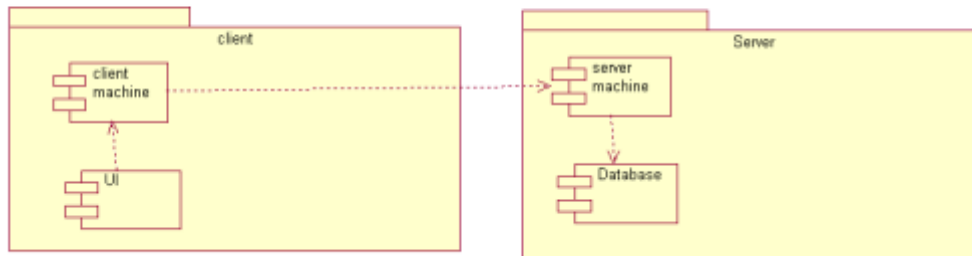


### ACTIVITY DIAGRAM:

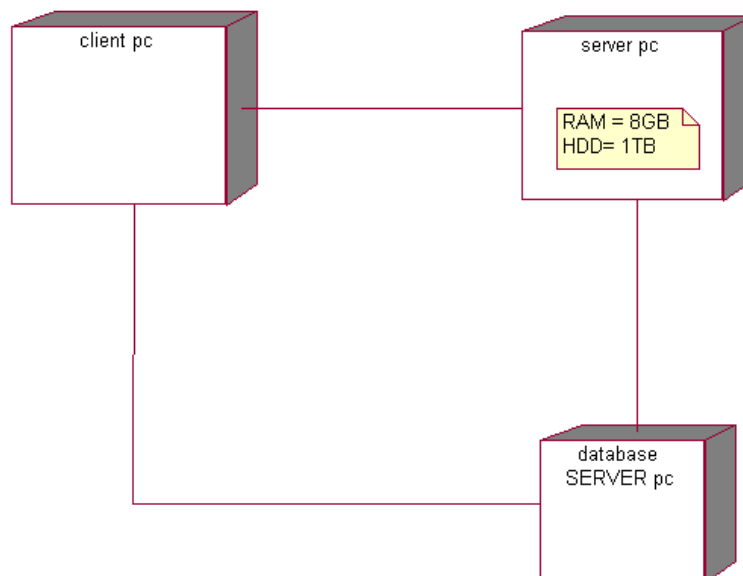


## Exp.7: ARCHITECTURAL DIAGRAM

### COMPONENT DIAGRAM:



### DEPLOYMENT DIAGRAM:



## **Exp.8: OBJECT MODEL TO DATABASE SCHEMA**

### **INHERITANCE**

#### **Property**

NAME	location	ID	TYPE	STATUS	OWENER	PRICE
AJAY	ANDHERI	D123	RENT	AVAILABLE	ABHILASHA	40,000
ASHOK	MULUND	D456	SALE	SOLD	CHARMI	50LAKHS

**NOTE:** ID is the primary key

### **MANY TO MANY RELATIONSHIP**

#### **CUSTOMER**

NAME	EMAIL	CUSTOMER ID
PINKY	PINKY@GMAIL.COM	V85
MINKY	MINKY@HOTMAIL.COM	V86

**NOTE:** CUSTOMER ID is the primary key

#### **SELLER**

NAME	EMAIL	SELLER ID	PROPERTY
DR.PATEL	PATEL@YAHOO.COM	D78	PARADISE
DR.SMITA	SMITA@GMAIL.COM	D83	TAPASYA

**NOTE:** SELLER ID is the primary key

#### **LINK TABLE**

CUSTOMER ID	SELLER ID
D78	V85
D83	V86



## **Exp.9: USER INTERFACE DESIGN**

### **PRINCIPLES APPLIED IN USER INTERFACE:**

1. Do not rely on usability guidelines – always test with users.
2. Base UI design on user task.
3. Ensure that the sequence of action to achieve a task are as simple as possible.
4. Ensure that user always knows what he or she can and should do next.
5. Provide good feedback encoding techniques.
6. User understandable encoding techniques.
7. Consider the needs of different groups of user.
8. Be consistent.

The image displays a user interface design for a website titled "Abhichar property deals". The main layout consists of a header area with the site name, a central content area with a "Welcome!!" message, and two side-by-side panels for "Login" and "Register".

**Header:** The header features the text "HOME" in the top left corner and "Abhichar property deals" in a large, bold, italicized font in the center.

**Welcome!!**

**Login/Registration Options:** Below the welcome message, there are two options for users:

- 1. Already User . ! (with a "login" button)
- 2. Not a member yet! (with a "Register" button)

**Login Panel:** The "Login" panel is a purple box with a white header. It contains the following fields and buttons:

- Username:
- Password:
- 
- 

**Register Panel:** The "Register" panel is a purple box with a white header. It contains the following fields and buttons:

- Choose a Username\*:
- Password\*:
- Email\*:
- First Name\*:
- Last name\*:
- 
-

## Abhichar property deals

Welcome!!

<b>1. Check Property List</b> <input type="button" value="On Rent"/> <input type="button" value="For Sale"/> <input type="button" value="View All"/>	<b>2. Special offers</b> <input type="button" value="Check"/>
<b>3. Loan options</b> <input type="button" value="Check"/>	<b>4. Give Suggestions</b> <input type="button" value="Click"/>

### Loan Options!!

**Buying a flat?**  
 Floating home loan rate option ideal new Prospective home loan borrowers are in for lower home loan interest rates in the near to medium terms.  
 The Reserve Bank of India (RBI) bringing down the repo rate and the cash reserve ratio (CRR) by 25 basis percentage points each signals lower lending rates in the months ahead.  
 This headline inflation rate too is coming down and this makes it possible for the RBI to take a softer stance on the Credit Policy .

### Properties on rent!!

Click on triangle for more details

- ▶ Andheri(W)-Shastri Nagar
- ▼ Mulund(E)-Mithagar Road

**5BHK**  
 Recently renovated with plush modern  
 4+1 bedrooms (3+1) bathrooms  
 Brand A/C throughout  
 Status: Available

- ▶ Vileparle(E)
- ▶ Powai/Sakinaka
- ▶ Kandivali

### Give suggestions!!

Enter your feedback here:

## Exp.10: DEVELOPE THE TEST CASES FOR THE SYSTEM

TEST CASE ID	DESCRIPTION	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	STATUS
Case 1.1:	User login	1: Username 2: Password	Appropriate message for invalid user	Message genearted for invalid user	Unsuccessful
Case 1.2:			Valid user should be directed to intended page after logging	Directed to intended page after logging	Successful
Case2:	User Home page	Select the option to proceed	Test case would open the appropriate page as per option selected by user	Displays desired page	Successful
Case 3.1	Check list	Select criteria	Will display criteria.	Options for criteria displayed.	Successful

Case 3.2	Display lists		Lists should be displayed according to criteria	Lists should be displayed according to criteria	Successful
Case 4	Special offers		Special offers should be displayed	Special offers data displayed.	Successful
Case 5	Loan options		Loan options details to be displayed	Loan options information displayed.	Successful

Case 6.1	Suggestion	Enter suggestions text area	Suggestions should be taken.	Suggestions entered and submitted.	Successful
Case 6.2		click on submit.	Suggestions should be sent to server	Not sent to the server	Unsuccessful

## **JAVA IMPLEMENTATION**

<pre>import java.util.*;  class Customer { static String name, email, password, userID; public Customer() //constructor {} public static void login() { Scanner sc=new Scanner(System.in); System.out.println("Enter else System.out.println("incorrect ID or password! please retry. \n new member? register !");</pre>	<pre>} public static void register() { Scanner sc=new Scanner(System.in); System.out.println("Enter the emailed:"); email=sc.next(); System.out.println("Select the UserID:"); userID=sc.next(); System.out.println("Enter the password:"); password=sc.next(); System.out.println("ReEnter the password:"); String pass=sc.next();</pre>
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<pre> if(pass.equals(password)) {System.out.println("Registration complete"); System.out.println(); System.out.println();} else {System.out.println("ReEnter password correctly!:""); pass=sc.next();} }  public static void giveSuggestion() //Ready { Management mgmt=new Management(); Scanner sc=new Scanner(System.in); System.out.println("Enter your Suggestion:"); String sugg=sc.next(); mgmt.acceptSuggestions(sugg); } }  class Buyer { int registerID; public Buyer() //constructor {} public static void checkList() //Ready { List li=new List(); li.displayList(); }  public static void checkLoanOptions() </pre>	<pre> //ready { Management mgmt=new Management(); mgmt.displayLoanOptions(); }  }  class Management { int loanOptions; String specialOffers, suggestions; public Management() //constructor {} public static void displayLoanOptions() {System.out.println(); System.out.println("Loan options"); System.out.println("Buying a flat? Floating home loan rate option ideal now \n Prospective home loan borrowers are in for lower home loan interest rates \n in the near to medium terms. \n The Reserve Bank of India (RBI) bringing down the repo rate \n and the cash reserve ratio (CRR) by 25 basis percentage points each signals\n lower lending rates in the months ahead. \n This headline inflation rate too is coming down and this makes it possible\n for the RBI to take a softer stance on the Credit Policy ."); System.out.println(); System.out.println(); System.out.println(); } </pre>
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```

public static void
acceptSuggestions(String sugg)
    //Ready
{
String s=sugg;
System.out.println("Suggestion
noted, Thank you for your
feedback!");
}
}

class List
{
String criteria;
public List() //constructor
{}
public static int selectCriteria()
{
Scanner sc=new Scanner(System.in);
int cr=3;
System.out.println("Select criteria:");
System.out.println("1. To buy. \n 2.
For rent. \n 3. All.");
int chcr=sc.nextInt();
switch(chcr)
{
case 1:
{cr=1;
break;}
case 2:
{cr=2;
break;}
case 3:
{cr=3;
break;}
}
return cr;
}
}

```

```

public static void displayList()
{
Property prop=new Property();
Scanner sc=new Scanner(System.in);

int cr=selectCriteria();
if(cr==1)
{
System.out.println("* Andheri(W)-
Shastri Nagar...4BHK for more detail
enter 11.");
System.out.println("* Mulund(E)-
Mithagar Road... Recently renovated
with plush modern for more detail
enter 12.");
System.out.println("* Vileparle(E)
...5BHK for more detail enter 13.");
System.out.println("*
Powai/Sakinaka...4BHK for more detail
enter 14.");
System.out.println("* Kandivali...Good
location for more detail enter 15.");
int propID=sc.nextInt();
prop.getPropertyDetails(propID);
}
else if(cr==2)
{
System.out.println("* Vasai
Road...3BHK on rent for more detail
enter 21.");
System.out.println("* Mulund(E)-
V.P.Road... 2BHK on rent for more
detail enter 22.");
System.out.println("* Thane(E) ...1BHK
on rent for more detail enter 23.");
System.out.println("*
Bhandup(w)...2BHK on rent for more
detail enter 24.");
}
}
}

```

<pre> System.out.println("* Dadar(E)...3BHK on rent for more detail enter 25."); int propID=sc.nextInt(); prop.getPropertyDetails(propID); } else if(cr==3) { System.out.println("* Andheri(W)- Shastri Nagar...4BHK for more detail enter 11."); System.out.println("* Mulund(E)- Mithagar Road... Recently renovated with plush modern for more detail enter 12."); System.out.println("* Vileparle(E) ...5BHK for more detail enter 13."); System.out.println("* Powai/Sakinaka...4BHK for mor detail enter 14."); System.out.println("* Kandivali...Good location for more detail enter 15."); System.out.println("* Vasai Road...3BHK on rent for more detail enter 21."); System.out.println("* Mulund(E)- V.P.Road... 2BHK on rent for more detail enter 22."); System.out.println("* Thane(E) ...1BHK on rent for more detail enter 23."); System.out.println("* Bhandup(w)...2BHK on rent for more detail enter 24."); System.out.println("* Dadar(E)...3BHK on rent for more detail enter 25."); int propID=sc.nextInt(); prop.getPropertyDetails(propID); </pre>	<pre> }  }  }  class Property { String name, location, ownerName, status, type; int price, propertyID; public Property() {}  public static void getPropertyDetails(int propID) { int id=propID; System.out.println(); System.out.println("Details not available for property with ID "+id); System.out.println(); System.out.println(); }  }  class PropertyMgmtSyst { public static void main(String args[]) { Customer cust=new Customer(); Buyer buy=new Buyer(); </pre>
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```

Property prop=new Property();
Management mgmt=new
Management();
List li=new List();

int ch;
Scanner sc=new Scanner(System.in);

System.out.println("Welocome to
ABHICCHAR Property deals!!");
do{
System.out.println("Menu:");
System.out.println("1.Login");
System.out.println("2.Not a
Member!.. Register");
System.out.println("3.Properly List");
System.out.println("4.Check Loan
Options");
System.out.println("5.Give
suggestions");
System.out.println("6.Exit");
ch=sc.nextInt();

```

```

switch(ch)
{
case 1:
{cust.login();
break;}
case 2:
{cust.register();
break;}
case 3:
{buy.checkList();
break;}
case 4:
{buy.checkLoanOptions();
break;}
case 5:
{cust.giveSuggestion();
break;}
case 6:
break;
}
}while(ch!=6);
}
}

```