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CHAPTER 1: INTRODUCTION

1.1 Company profile

Square Tech is a Pune based software company that focuses on delivering customized solutions to its clients by converting business ideas into well defined solutions.

Square Tech is best known for our Customized software development and Web Designing & Development, Data processing and SEO expertise, our talented and professional engineers, and our dedication to the quality of our delivered products. Our strength is our ability to incorporate both established and new technology into simple, user-friendly systems that suit all clients.

Vision: To achieve a leading position in the IT industry. To be in top 100 Indian IT companies to sustain our reputation for providing customer delight to generate value for all the stakeholders in the company.

Mission: Hire, train and motivate employees in creating a synergic organization which can deliver solutions which generates customer delight at least possible cost improve upon mutually beneficial relationships with customers, all supportive external agencies and business associates.

Square Tech Business Philosophy:

Square Tech business philosophy is to be as flexible as possible in our client relationships. They deliver services through a range of time-and-material, fixed price, short-term, long-term, on-site or offshore service delivery options. They utilize cutting-edge technologies and disciplined project management approaches to provide high quality, flexible and cost-effective services to meet client needs.

Square Tech can provide cost-effective alternatives to developing software in-house without compromising speed and quality. We can help deliver your innovations fast for

you to compete in this ever-increasingly complex and rapidly changing market in the following ways:

• Provide customized solutions through rapid design and full-service support

• Deliver the technology, skilled development resources and project managers

• Guarantee high quality software products delivered on time and within budget

• Reduce software design and development costs by as much as 75%

Square Tech Expertise:

- Project-Based Model
- Team-Based Model
- Product design and development
- Product feature enhancement
- Product platform migration
- Software product testing
- Quality Assurance

Square Tech Services:

- Software Development
- Web Designing and Development
- Web Hosting
- Quality Assurance
- Data Processing
- SEO (Search Engine Optimization)

1.2 Existing System and Need of the system

In this current fast moving world its very difficult to find Properties which are to be sold and at a proper location where we exactly want them to be. When looking out for a property or searching for a property the main question comes in front of the property hunter is how to get contacts of the once who are selling their properties and also where exactly the properties are located. Also if someone want a property on rent it becomes very difficult to get one very easily. Here we introduced the website Home in Pune which will help the Pune people or the outsiders to buy a property in Pune by logging into the website searching for the available properties, place the requirement of the properties as and how they want them to ask for a site visit of the property listed in the website etc. This website provides good easy and efficient user interface and thus making the service to the customers very fast and smarter.

Till date searching the property done by the persons own self from the property dealer or through

There was a limitation of matching choice of the property but these sites makes much time in searching and purchasing the property.

It is very difficult to maintain manual records of property.

It is very difficult to find property according to customer budget.

Keeping the details of each and every property is very complicated.

1.3 Scope of a system

Scope of the system is to provide an efficient way for the customers in order to search for properties place their requirement for as and how they want the property, search for rental houses, offices, etc. also ask for the site visit so that they can personally go and have a look at the site where the property is located to get confirmed about the property.

The main scope of the system is:-

1. To have an easy Enquiry by Phone or E-Mail & booking Site visit on a particular date.

2. To have an effective system by reducing human element and time that will result in multiple growth of business and ultimately increasing profitability.

3. Instance Feedback Facility that make Customer Satisfy.

4. Property search facility Available 24 Hours.

5.The system consists of mainly customer, Admin. System consists of following activities:

- Viewing website for Search Property.
- Adjust filters according to price.
- Ask For Site Visit & Requirement.
- Booking for Site visit dates Selected By Customer.
- Lastly give the feedback to the Admin about their experience.

The system is highly flexible and well efficient to make easy interaction with the client.

The key focus is given on data security , as the project is online and will be transferred in network

The speed and accuracy will be maintained in a proper way.

This system will be a user friendly and can successfully overcome strict and severe validation checks.

The system will be flexible one and changes whenever can be made easy.

Using the facility and flexibility in php and MYSQL the software can be developed in a neat and simple manner thereby reducing the operators work.

Tasks

- Category of property
- Features of property
- Details of property
- Price details
- Special offer list for registered users
- Property details by messaging
- Available property information
- Member management
- Member id is generated automatically from the table by auto generation
- Checking password and confirm password
- Add banners and property images
- Save time of search

- Give modification power to sites owner at any label, so administrator of site can make any changes such like can add a new property.
- Administrator can also change the banners and also can change the list of special offer property.
- Chat application for system users
- Filters for price selection

1.4 Operating Environment- Hardware and Software

Hardware Requirement

Operating system	:	Any operating system
Processor	:	CORE 2 DUO
RAM	:	2 GB
Disk Space	:	Min 300MB

Software requirements

Operating system	:	Windows 7
Web Browser	:	Mozilla Firefox, Google Chrome
Development tools	:	PHP , AJAX , JQUERY, HTML, JAVASCRIPT
Database	:	MYSQL

1.5 Detail Description of Technology Used

About PHP Technology

- PHP originally stood for “Personal Home Page” was first designed by Rasmus Lerdorf in 1994 to track the visitors to his online resume.
- PHP code is inserted directly into the HTML that makes up a website. When a visitor comes to the website, the code is executed. Because PHP is a server side technology, the user does not need any special browser or plug-ins to see the PHP in action.
- In 1998, shortly after PHP 3.0 Andi Gutmans and Zeev Suraski’s on 'Zend Engine‘ proposed PHP 4.0, based on this engine, and coupled with a wide range of additional new features - support for many more Web servers, HTTP sessions, output buffering, more secure ways of handling user input.

- PHP 5 was released in July 2004. Key features - improved object-oriented programming, support for new MySQL features, exception handling using a try…catch structure and better XML tools.

- PHP 6 was released in 2008. Its key features are support for Unicode i.e. PHP can now handle characters in every language in the world. That means, you can create "Universal Sites" using PHP 6.

Advantages

- PHP offers many advantages; it is fast, stable, secure, easy to use and open source (free).

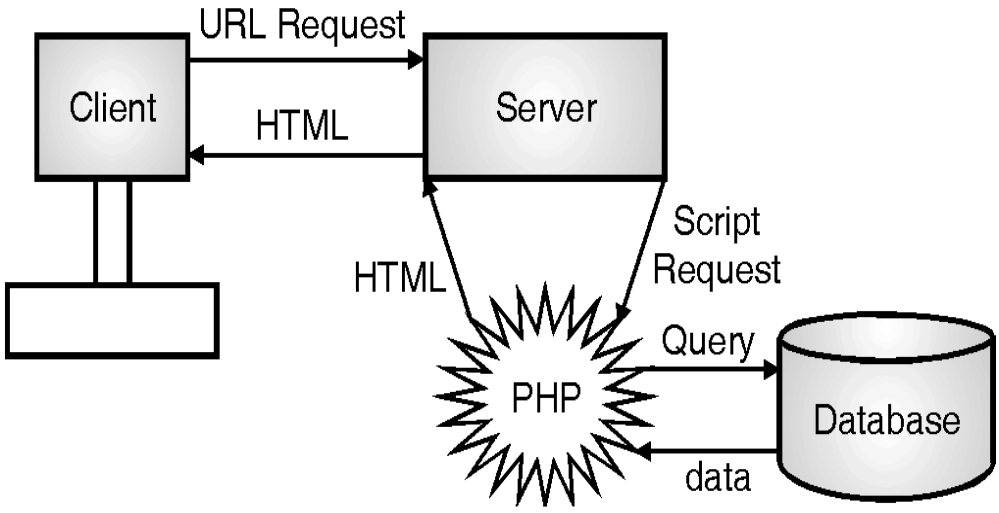
- The very first advantage of PHP scripting language is that it is a general purpose open-source language. The best feature this technology has is that it can be downloaded for free.

- Second high benefit of using PHP language is that it is extremely user-friendly as compared to other popular languages. It is believed and seen that PHP language has an edge over other languages in web development arena.

- Another factor that contributes to the popularity of this programming language is its being extremely resourceful, which means that PHP is friendly with most of the servers. Apart from it, it is friendly with all operating systems whether it is Windows, Mac or Linux. When it comes to PHP development, database servers like MySQL is considered best that works absolutely fine with PHP. In short, PHP is taken as an unique language supporting various functions. In simpler way, it can be said that PHP runs on more than 99% of Web Servers and it works on just about every operating system available.

- Most important benefit PHP offers is that it can manage a lot of databases. Hence, we can say database management as an important aspect of this language.
- PHP offers many levels of security to prevent malicious attacks. These security levels can be adjusted in the .ini file.
- Another key advantage of PHP is its connective abilities. PHP uses a modular system of extensions to interface with a variety of libraries such as graphics, XML, encryption, etc.

Client server model when client makes request for a dynamic web page



About Mysql Database

- MySQL was originally founded and developed in Sweden by two Swedes and a Finn: David Axmark, Allan Larsson and Michael "Monty" Widenius, who had worked together since the 1980's.
- MySQL is the world's most popular open source database software, with over 100 million copies of its software downloaded or distributed throughout it's history. With its superior speed, reliability, and ease of us.
- MySQL has become the preferred choice for Web, Web 2.0, SaaS, ISV, Telecom companies and forward-thinking corporate IT Managers because it eliminates the major problems associated with downtime, maintenance and administration for modern, online applications.

- Many of the world's largest and fastest-growing organizations use MySQL to save time and money powering their high-volume Web sites, critical business systems, and packaged software — including industry leaders such as Yahoo!, Alcatel-Lucent, Google, Nokia, YouTube, Wikipedia, and Booking.com.

- The flagship MySQL offering is MySQL Enterprise, a comprehensive set of production-tested software, proactive monitoring tools, and premium support services available in an affordable annual subscription.

- MySQL is a key part of LAMP (Linux, Apache, MySQL, PHP / Perl / Python), the fast-growing open source enterprise software stack. More and more companies are using LAMP as an alternative to expensive proprietary software stacks because

of its lower cost and freedom from platform lock-in.

- MySQL runs on more than 20 platforms including Linux, Windows, Mac OS, Solaris, HP-UX, IBM AIX, giving us the kind of flexibility that puts us in control.

The Main Features of MySQL:

Internals and Portability

- Written in C and C++.
- Uses GNU Automake (1.4), Autoconf (Version 2.52 or newer), and Libtool for portability.
- Works on many different platforms; APIs for C, C++, Eiffel, Java, Perl, PHP, Python, Ruby, and Tcl.

- Fully multi-threaded using kernel threads, this means it can easily use multiple CPUs if available.
- Very fast B-tree disk tables with index compression and thread-based memory allocation system.
- Very fast joins using an optimised one-sweep multi-join, can mix tables from different databases in the same query.
- In-memory hash tables which are used as temporary tables.
- SQL functions are implemented through a highly optimised class library and should be as fast as possible!
- Usually there isn't any memory allocation at all after query initialisation.

Security

- All password traffic is encrypted connecting to a server.
- A privilege and password system that is very flexible and allows host-based verification.

Scalability and Limits

- Handles large databases. Maximum size for a table is 8TB (default 4GB).
- Up to 32 indexes per table. Each index may consist of 1 to 16 columns or parts of columns.
- The maximum index width is 500 bytes (this may be changed when compiling MySQL Server).
- An index may use a prefix of a CHAR or VARCHAR field.

Connectivity

- Clients may connect to the MySQL server using TCP/IP Sockets, Unix Sockets (Unix), or Named Pipes (NT).
- All ODBC 2.5 functions and many others.

Localization

- All comparisons for normal string columns are case-insensitive.
- The server can provide error messages to clients in many languages.
- MySQL Server supports many different character sets that can be specified at compile and runtime.

Clients and Tools

- Includes myisamchk, a very fast utility for table checking, optimisation, and repair.
- All of the functionality of myisamchk is also available through the SQL interface as well.
- All MySQL programs can be invoked with the --help or -? options to obtain online assistance.

CHAPTER 2:
PROPOSED SYSTEM

2.1 Proposed system

Home in Pune is a online web portal to search properties located in pune, It is a user friendly

property search listing for real estate needs. Registered agents,owners and builders can post and

update properties. Admin will decide which property should be included in the web site.

List properties in minuts with intuitive forms and can set property images for particular property.

When looking out for a property or searching for a property the main question comes in front of the property hunter is how to get contacts of the once who are selling their properties and also where exactly the properties are located. Also if someone want a property on rent it becomes very difficult to get one very easily.

Scope of the proposed system is to provide an efficient way for the customers in order to search for properties place their requirement for as and how they want the property, search for rental houses, offices, etc. also ask for the site visit so that they can personally go and have a look at the site where the property is located to get confirmed about the property.

The proposed system is developed to remove all the drawbacks of existing system, and automate many

tasks.

The following activities are performed in proposed system.

- Features and details of property
- Save time of search
- Member management
- Advertisement with banner and property images
- User friendly
- Feedbacks

- Area wise search result
- Enquiry facility

2.2 Objective of the system

- To provide a Search for property of which type the customer wants to buy.

- Administrator can maintain daily updates in the Customers records and also give the feedback to the customers.

- This will allow a 24 hour service to search for a property by the customer.

- Also will allow a customer to Specify their requirement of how and where they want the property and also ask for a site visit of the property.

The main objective of the entire activity is:-

1. Provide Service within Pune State (Destinations wise).
2. Advance Site visit Request.
3. Requirement Specification.
4. Feedbacks.

2.3 User requirements

The main objective of this project for Administrator is to set various commands (E.g. user management, builder/agent management, Post/FAQ management, job post and advertise management etc.) For the system which will be the prerequisite data to run system appropriately. For visitor the main objective is to apply for property. And for user to search a prospectus client for a property.

Customer requirement is to get a details of a developer, to specify area of a property, property types, locality and flooring wise details.

Requirement analysis is a software engineering task that bridges the gap between system level software allocation and software design. Requirement analysis enables the system engineer to specify software function and performance indicate software's interface with other system elements and establish design constraints that the software must meet. Requirement analysis allows the software engineer to refine the software allocation and build models of the process, data and behavioral domains that will be treated by software. Software analysis provides software designer with a representation of information and function that can be translated to data, architectural and procedural design. Finally the requirement specification provides the developer and the customer with the means to assess the quality once the software is built

- Purpose -

  It is well known company serving customers with variety of properties like residential flat, land, hotel, shopping complex

- User Friendliness -

  This project will have user friendly screens. The screens designed will have very simple functionality for retrieving, adding or editing information

- Consistency –

  The consistency in proposed system will provide high efficiency due to smaller learning curves and increased data integrity.

- Compatibility –

  This project offer great compatibility, as it is designed with proper methodology new technology and tools.

- Security –

  This project is secured system that will provide corporate level security. Only authorized people will be able to access critical information. Also user is able to add, update and delete information based on roles and privileges.

- Reliability and robustness –

  This project is built with proper architecture and design and it will provide reliable and robust application.

- Performance –

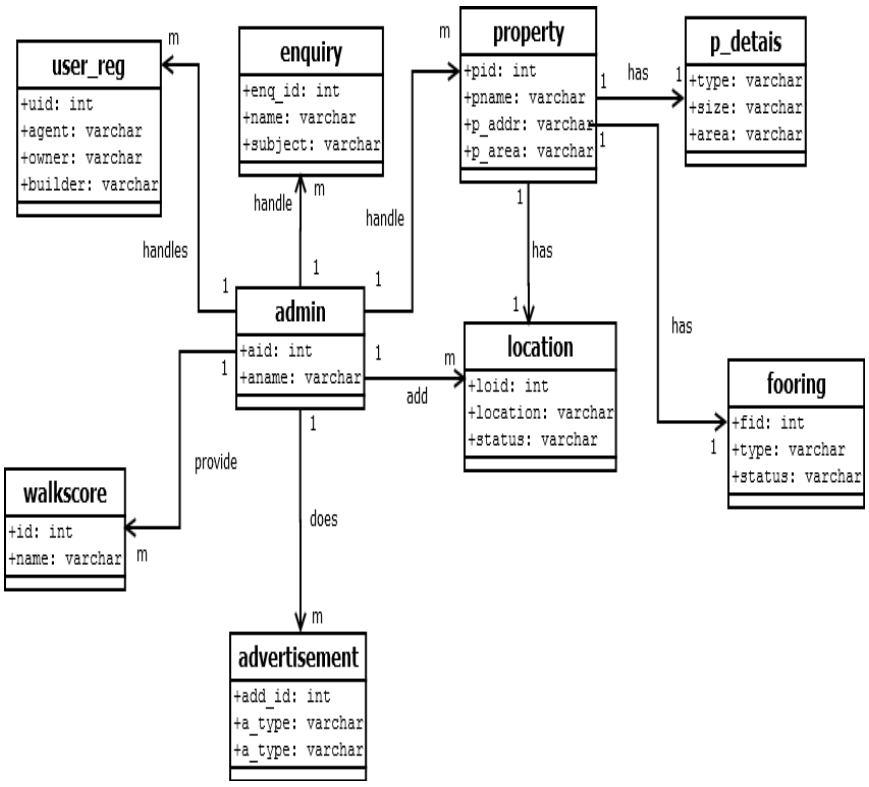
  The performance of this application will be high because of it's optimize design and sound architecture.

- Extensibility –

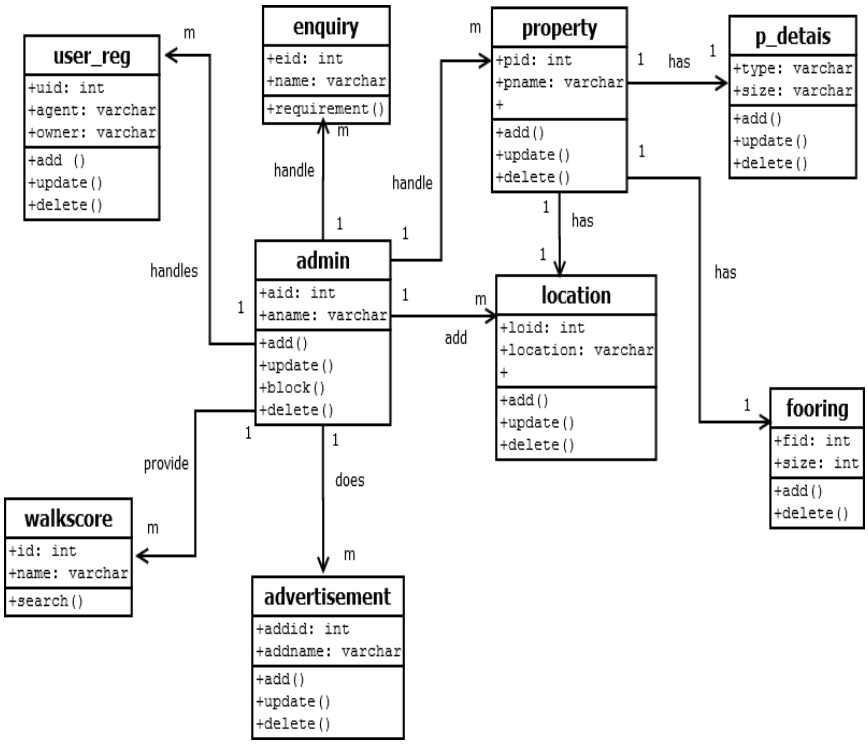
  This project has modular design and provides the flexibility of adding future modules.

CHAPTER 3 :
ANALYSIS & DESIGN

3.1 Object diagram

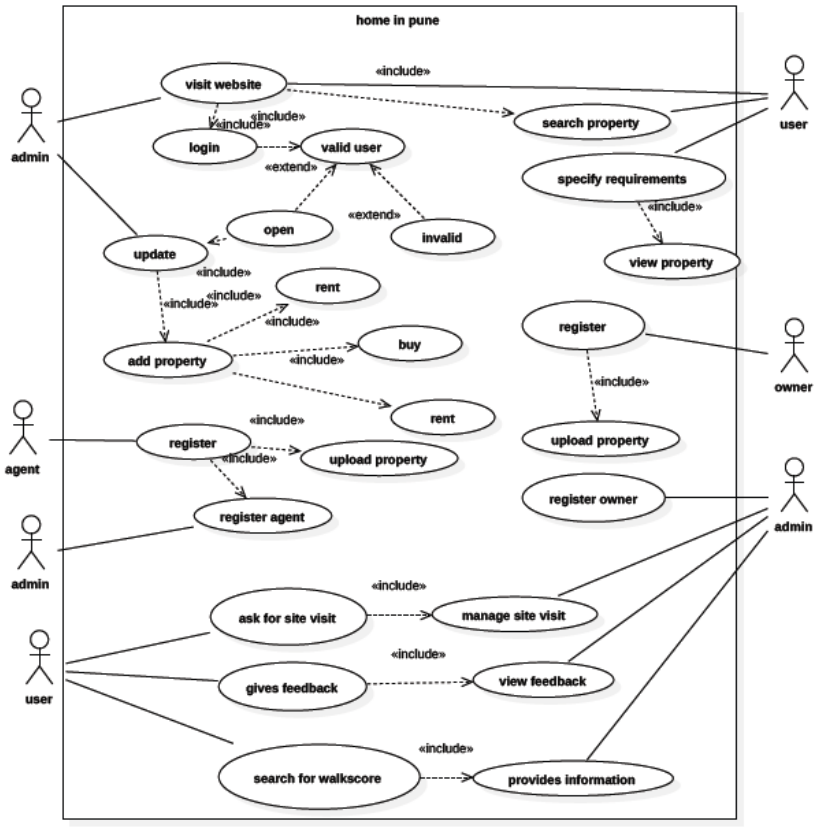


3.2 Class diagram

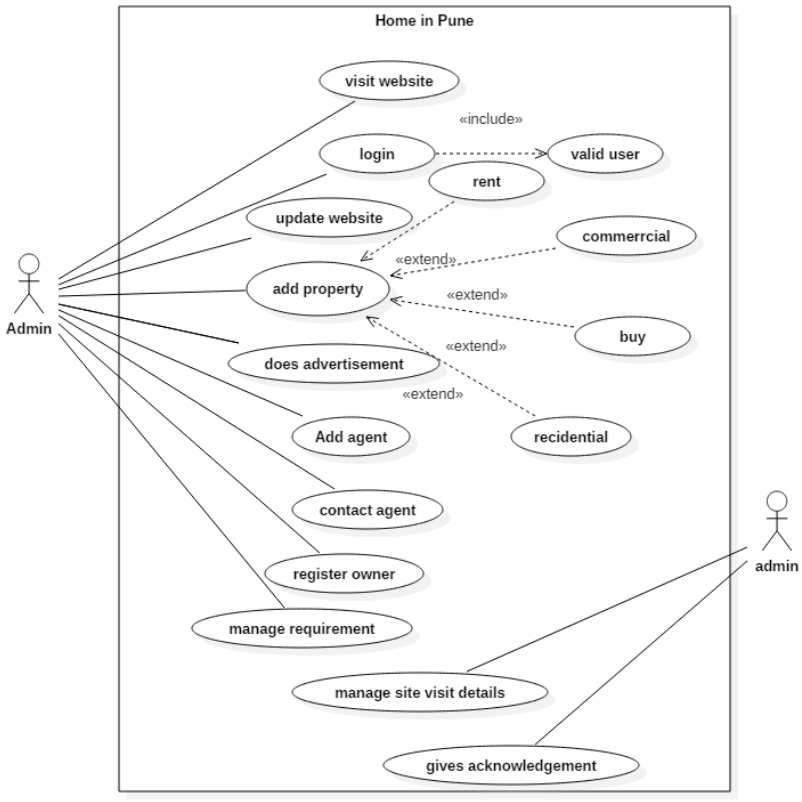


3.3 Use case diagram

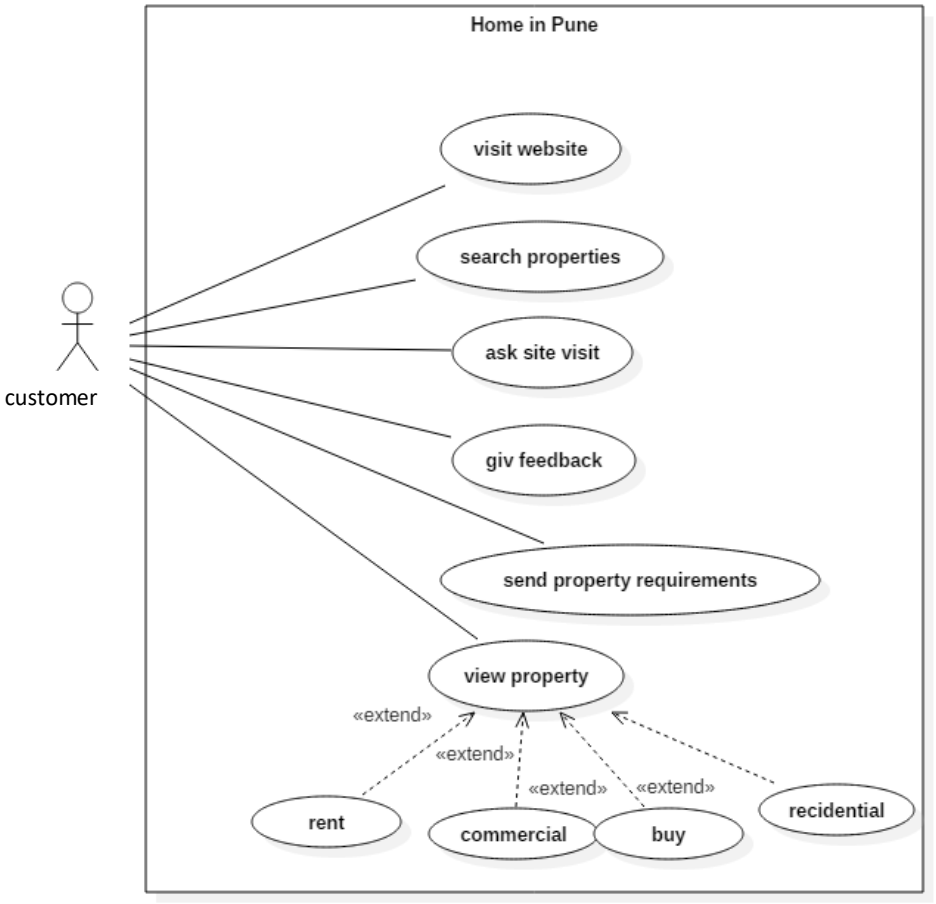
3.3.1 Business use case



3.3.2 Admin use case

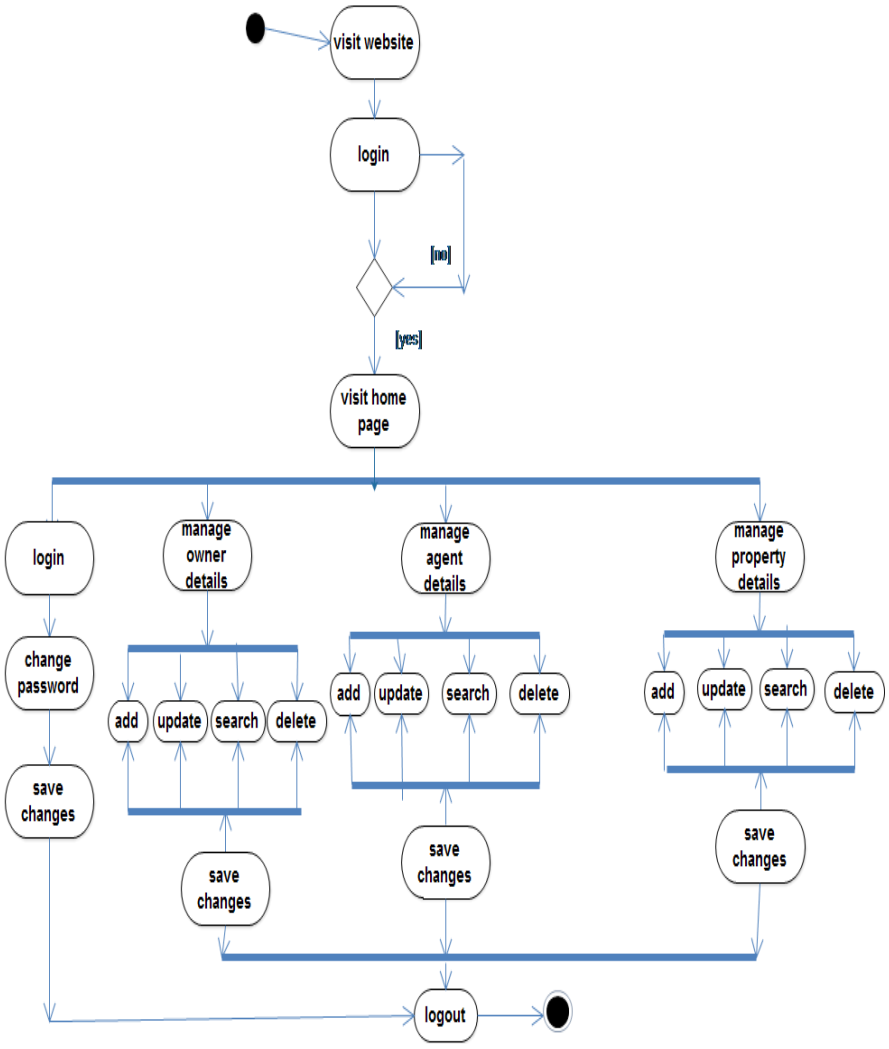


3.3.3 Customer use case

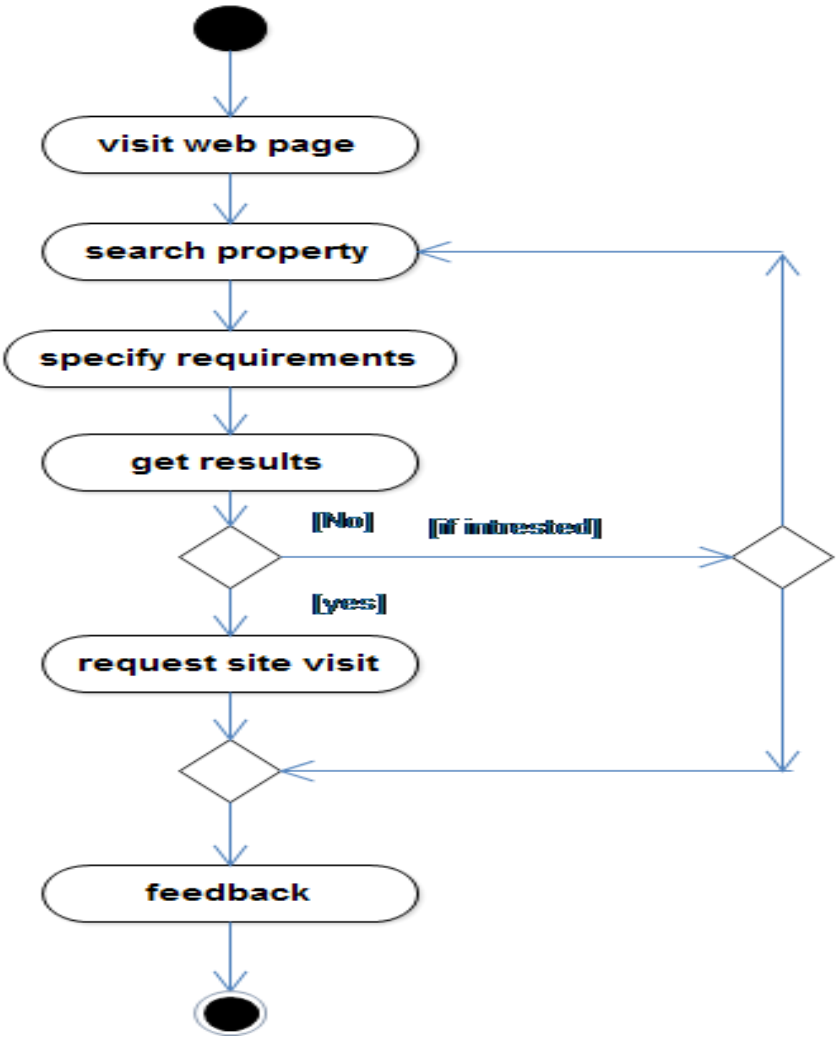


3.4 Activity diagrams

3.4.1 Admin activity

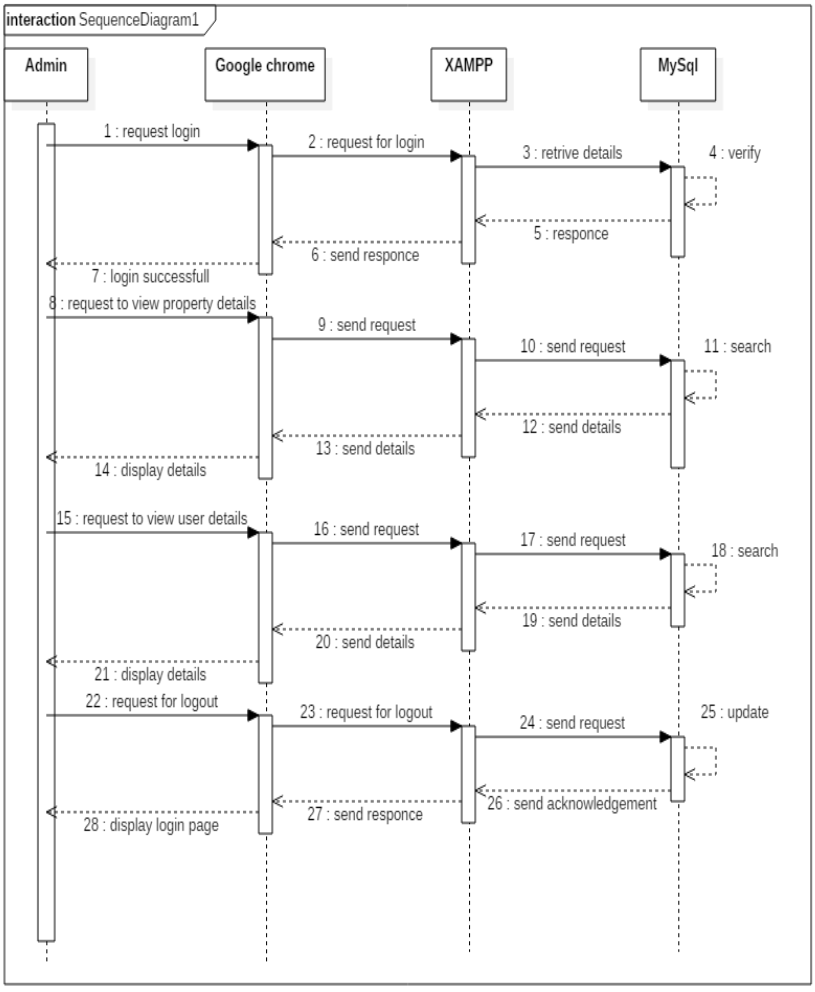


3.4.2 Customer activity diagram

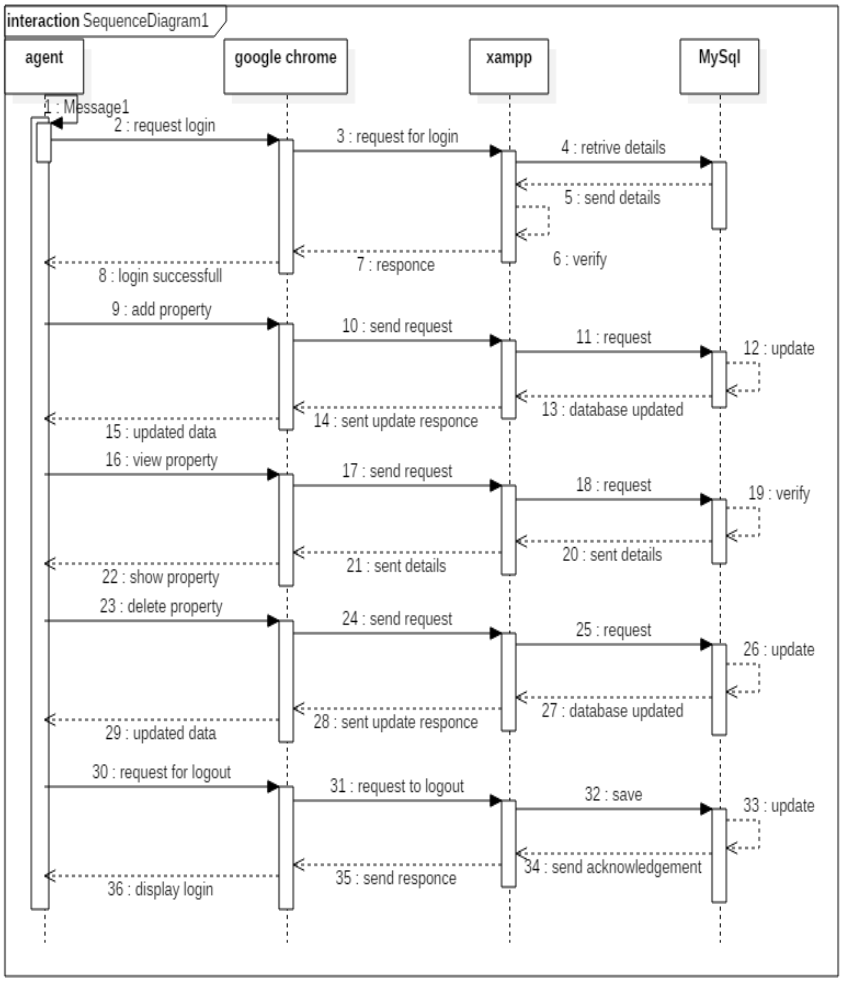


3.5 Sequence diagrams

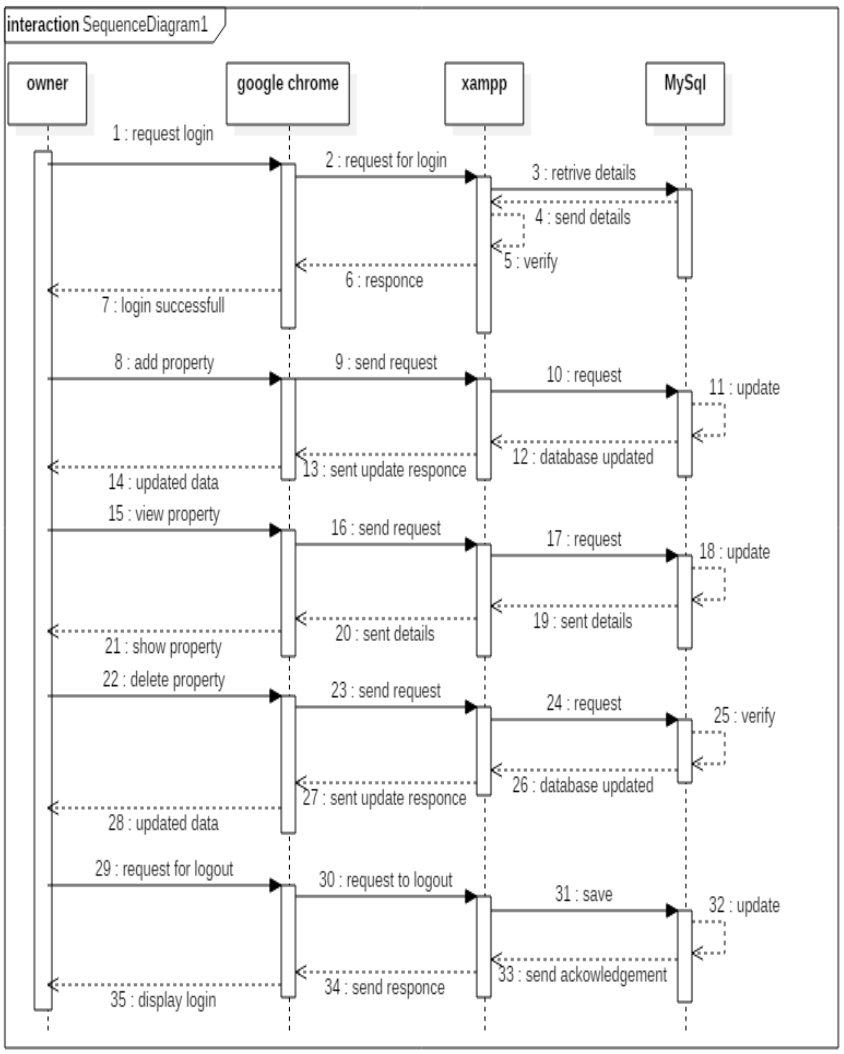
3.5.1 Admin sequence diagram



3.5.2 Agent sequence diagram

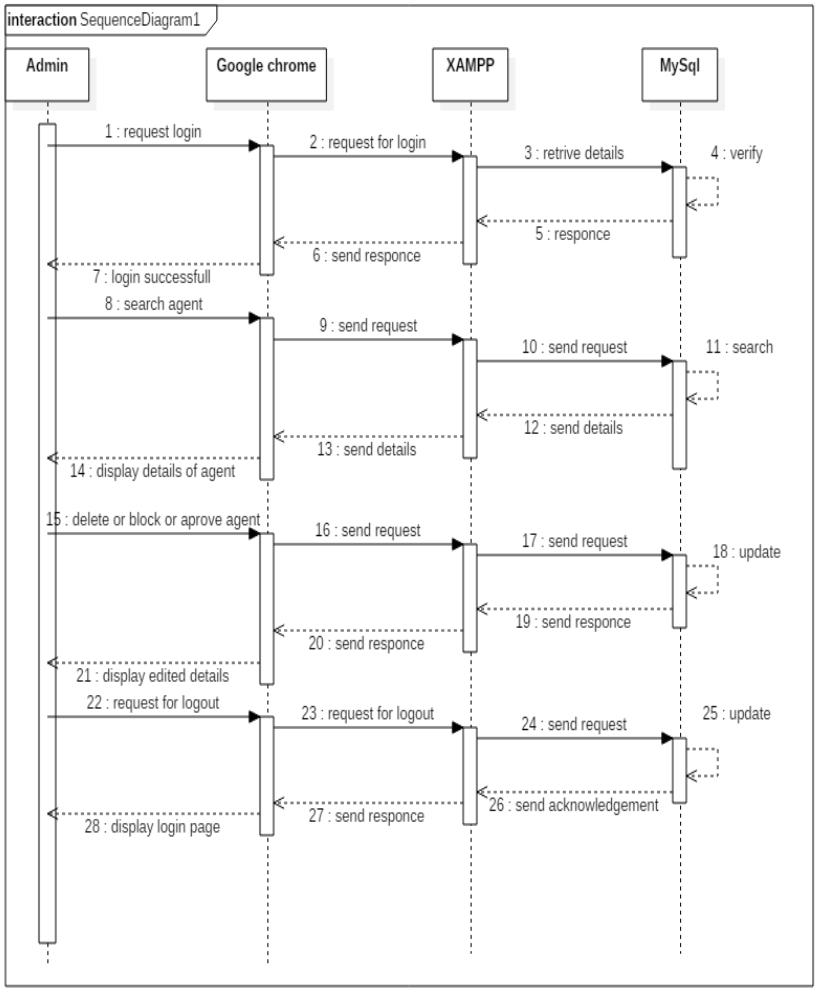


3.5.3 Owner sequence diagram



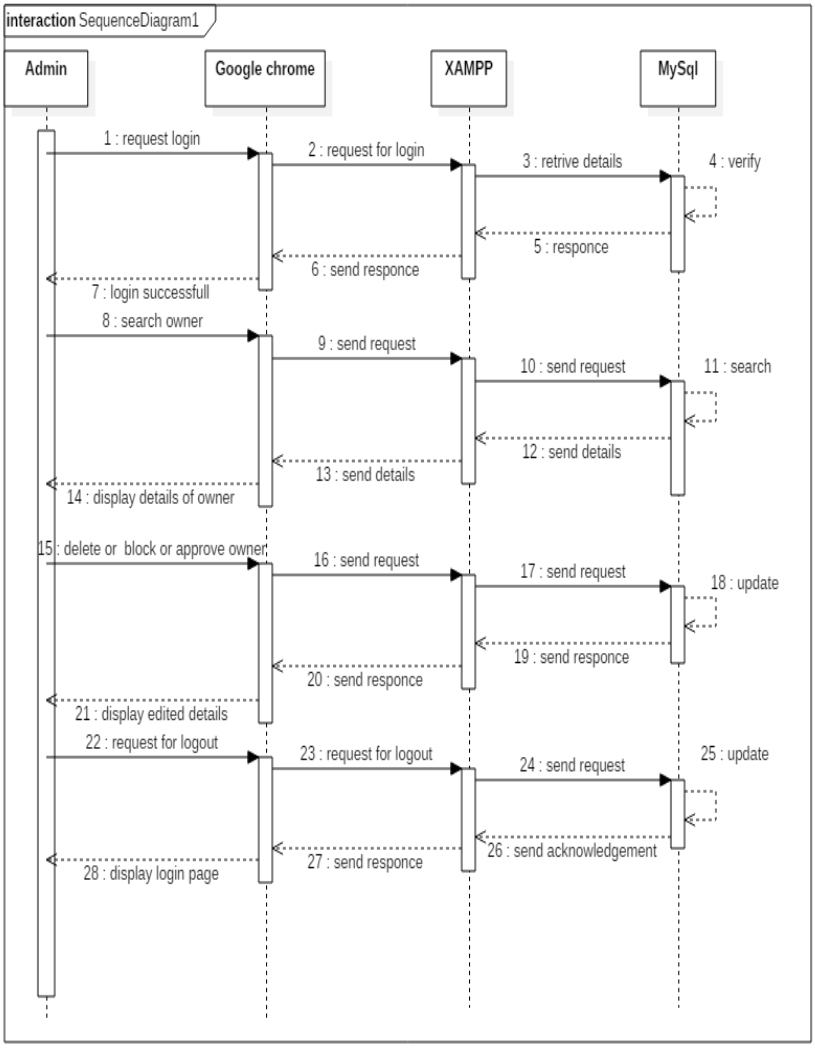
3.5.4 Sequence Diagram For Admin

(Search, Add, Delete, Edit **Agent** by Admin)

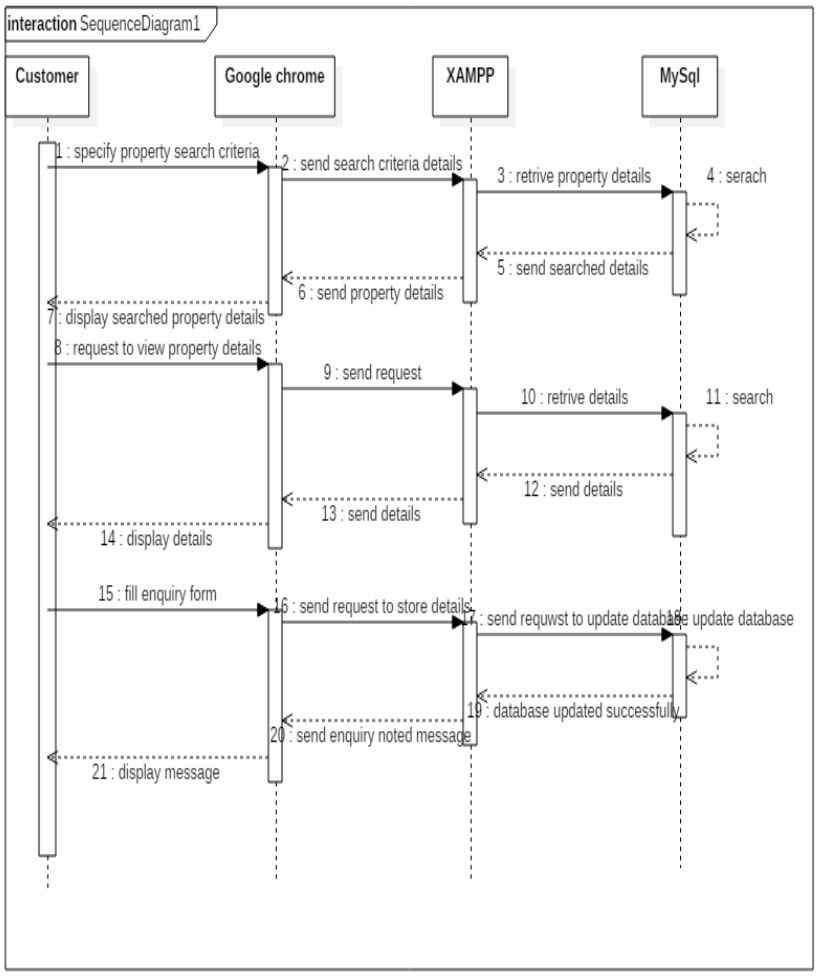


3.5.5 Sequence Diagram For Admin

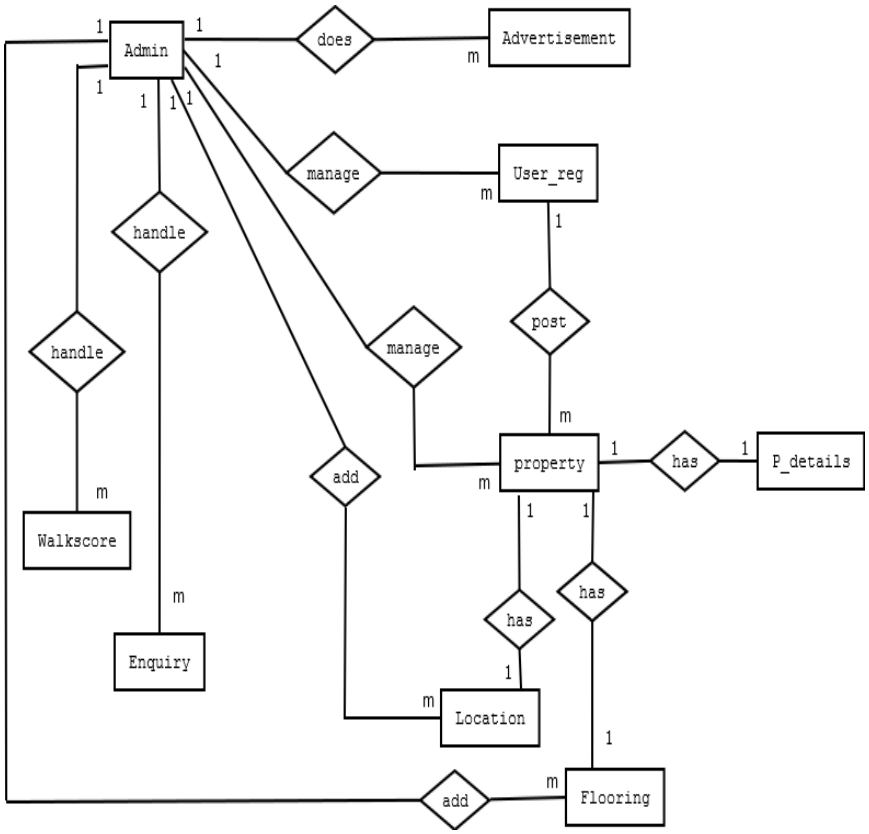
(Search, Add, Delete, Edit **Owner** by Admin)



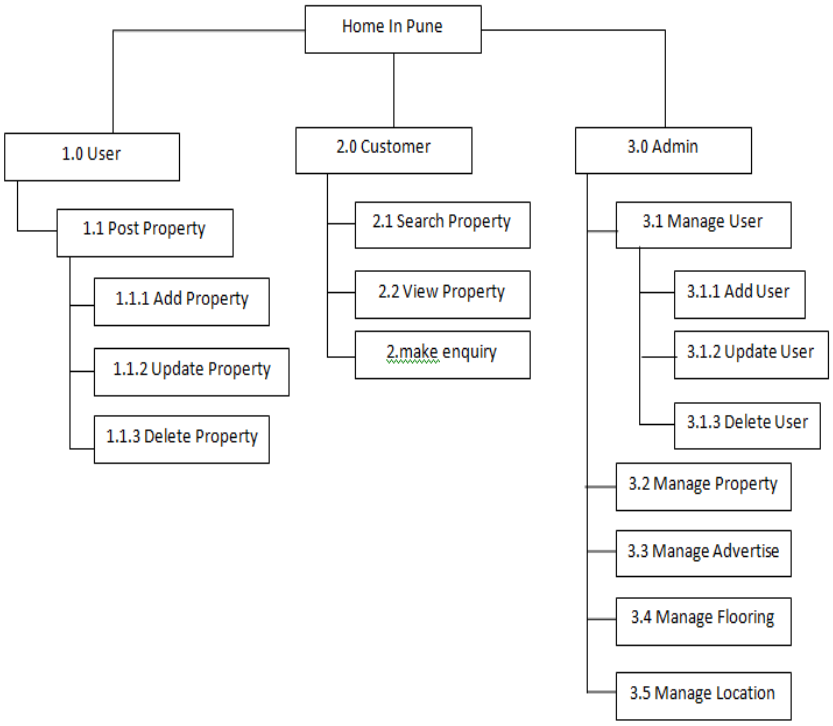
3.5.6 Customer sequence diagram



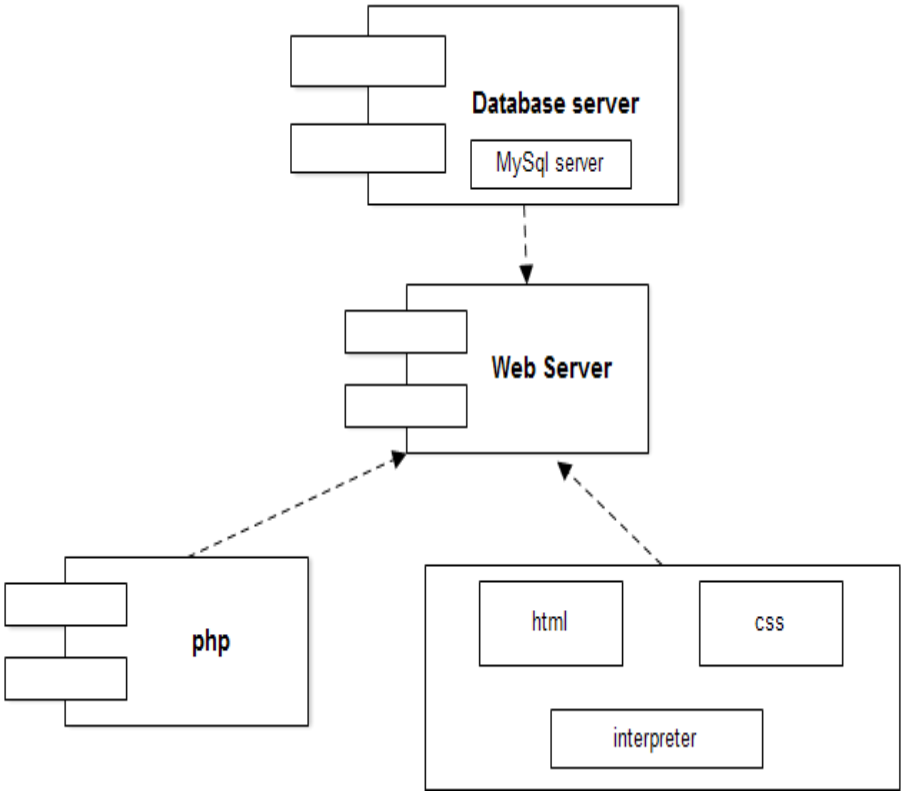
3.6 Entity relationship diagram



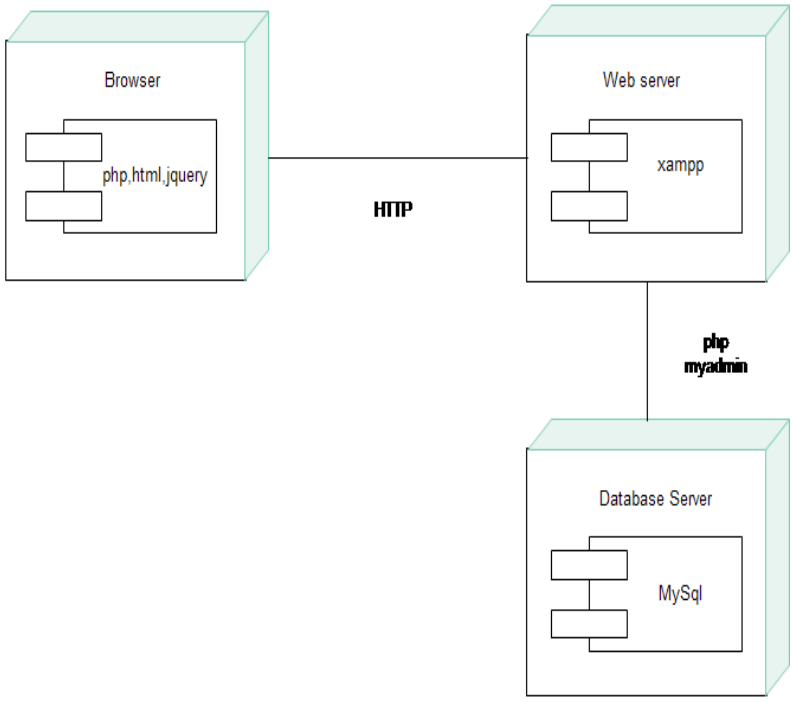
3.7 Module hierarchy diagram



3.8 Component diagram



3.9 Deployment diagram



3.10 Module specification

User-

- There are three types of users, mainly Agent, Builder or Property- Owner.
- Agent must login to the website
- Agent collects information of property and post property on the website for sale.
- Builder can post his new projects like residential area, shopping complex for sale.
- Property owner can also sale his property on the website
- Manage enquiry made by customer

Registration

- It includes the registration of agent, owner and builder.
- User can register in this module and post property.
- User can view property

Property

- Details of a property
- Developer
- Property type
- Locality
- Flooring

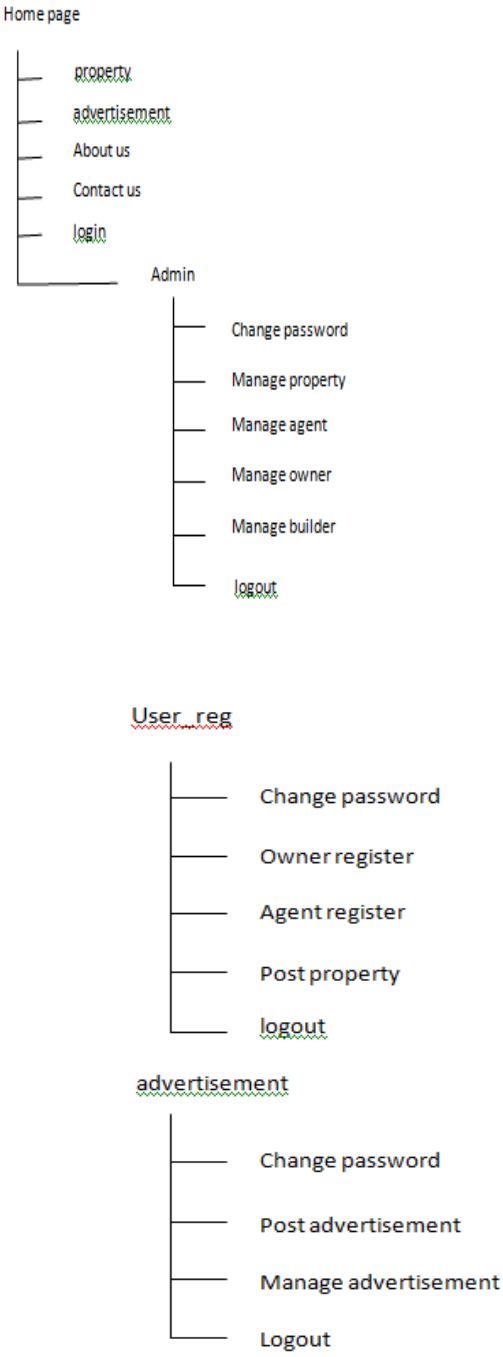
Admin

- Login to the system
- Verify property posted by Agent, Builder or Property-Owner.
- Post advertisement
- Post property
- Manage property details
- Manage user details
- Update website
- View and Revert to the feedback

walkscore

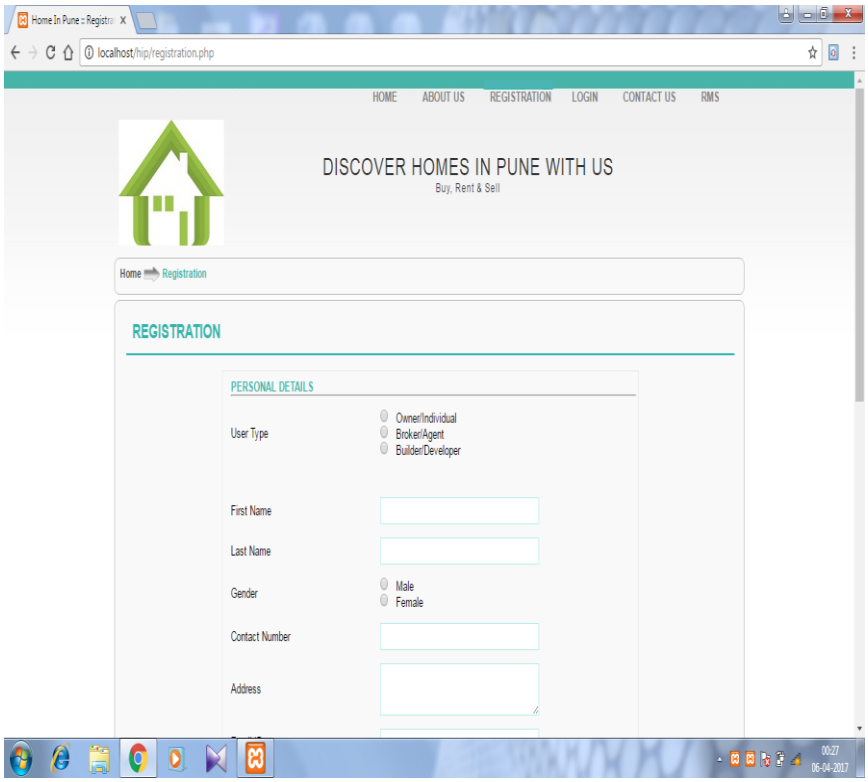
- search nearby walkscore

3.11 **Web Site Map Diagram**

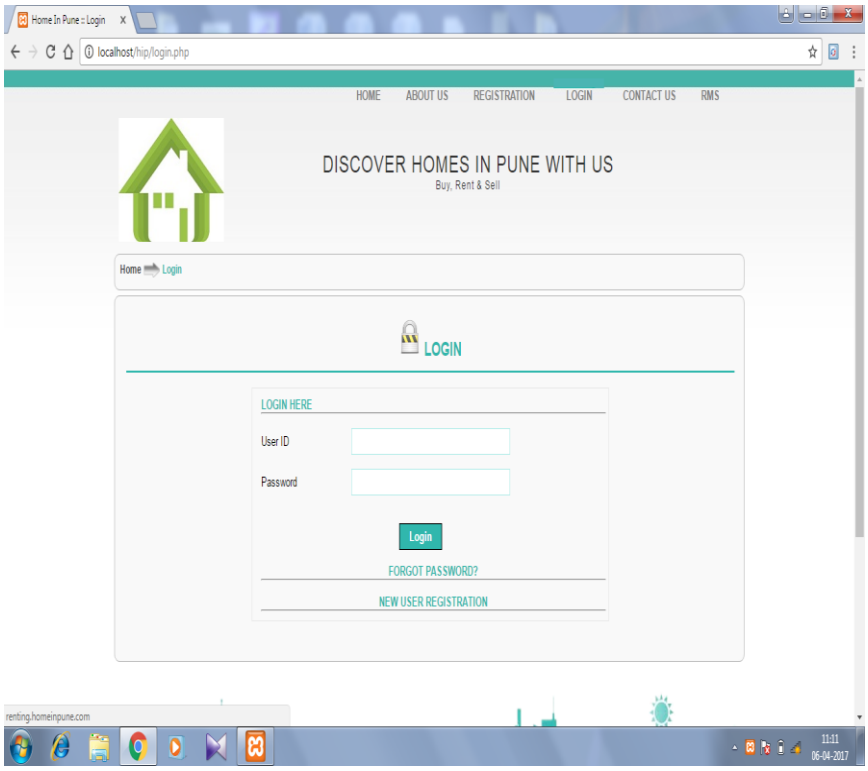


3.12 User Interface Design

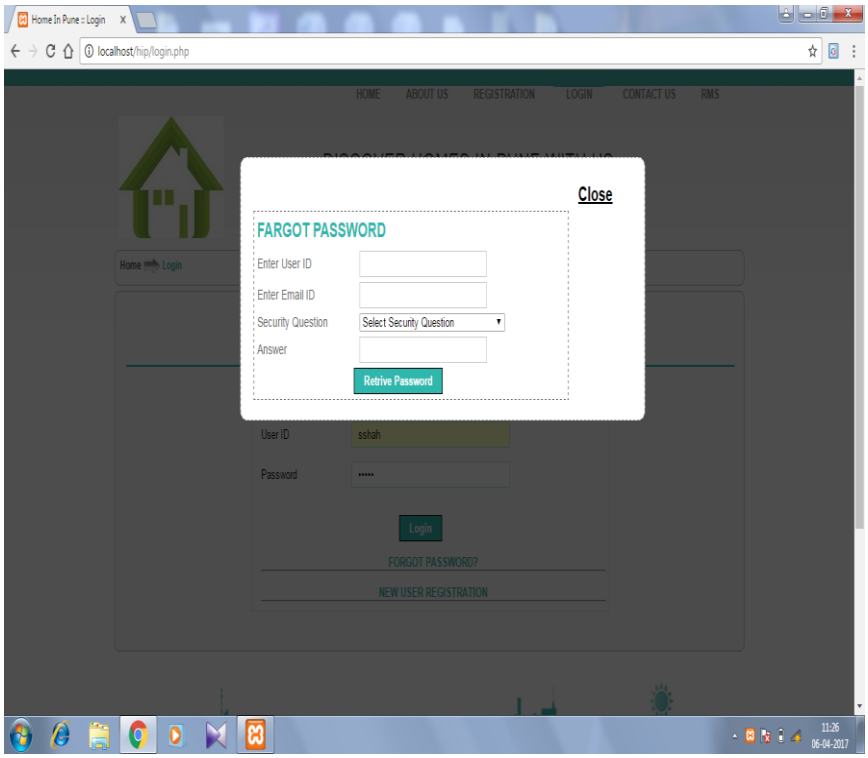
User registration



Login

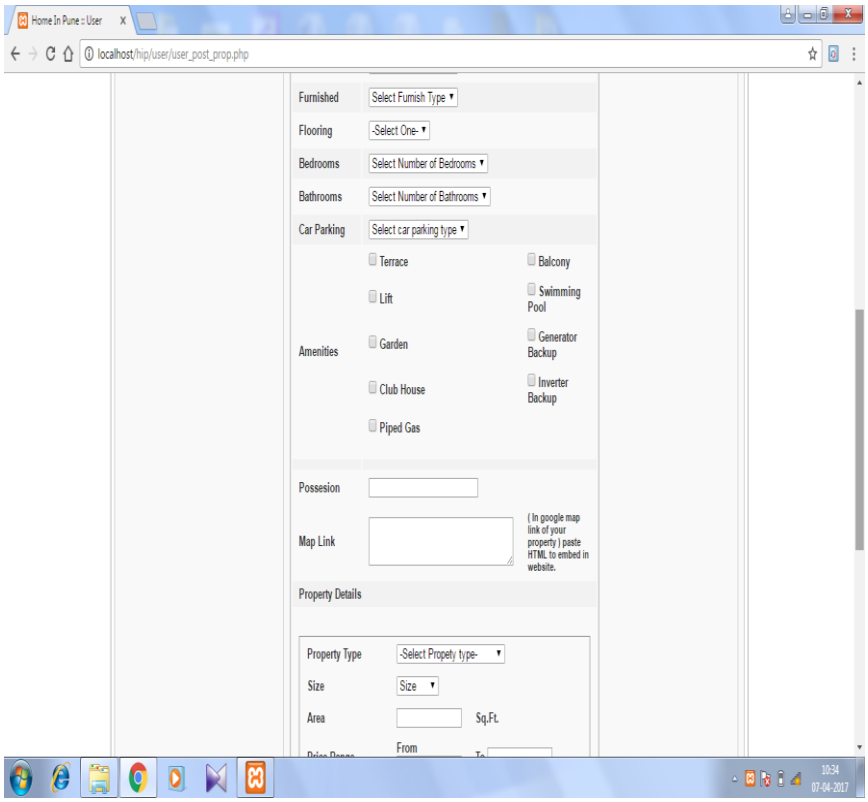

Home In Pune :: Login
localhost/hip/login.php
HOME
ABOUT US
REGISTRATION
LOGIN
CONTACT US
RMS
DISCOVER HOMES IN PUNE WITH US
Buy, Rent & Sell
Home
Login
LOGIN
LOGIN HERE
User ID
Password
Login
FORGOT PASSWORD?
NEW USER REGISTRATION
renting.homeinpune.com
11:11
06-04-2017

Change password

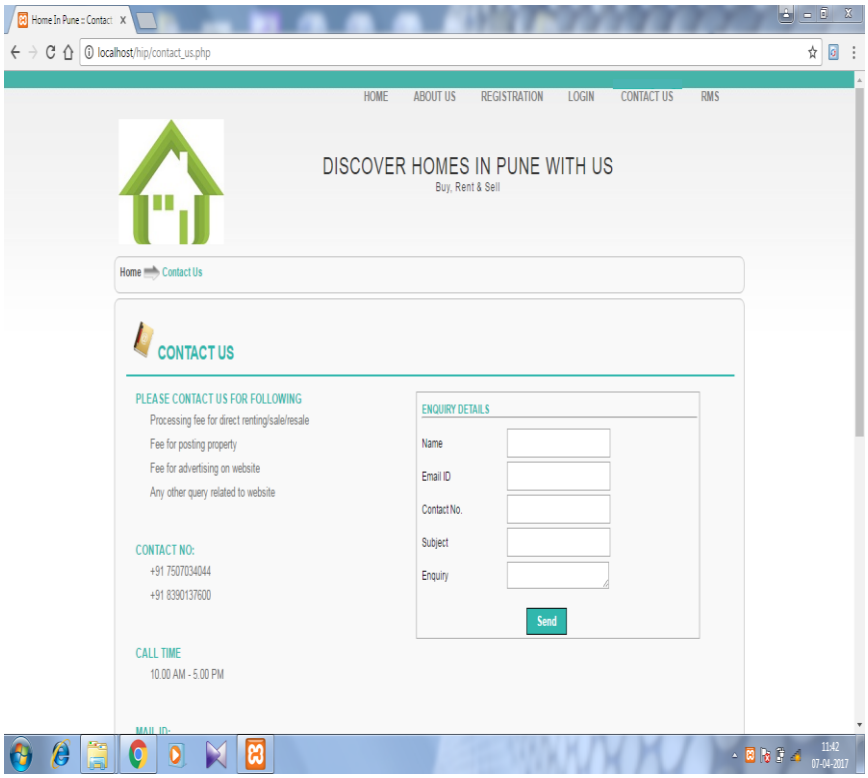


Post Property

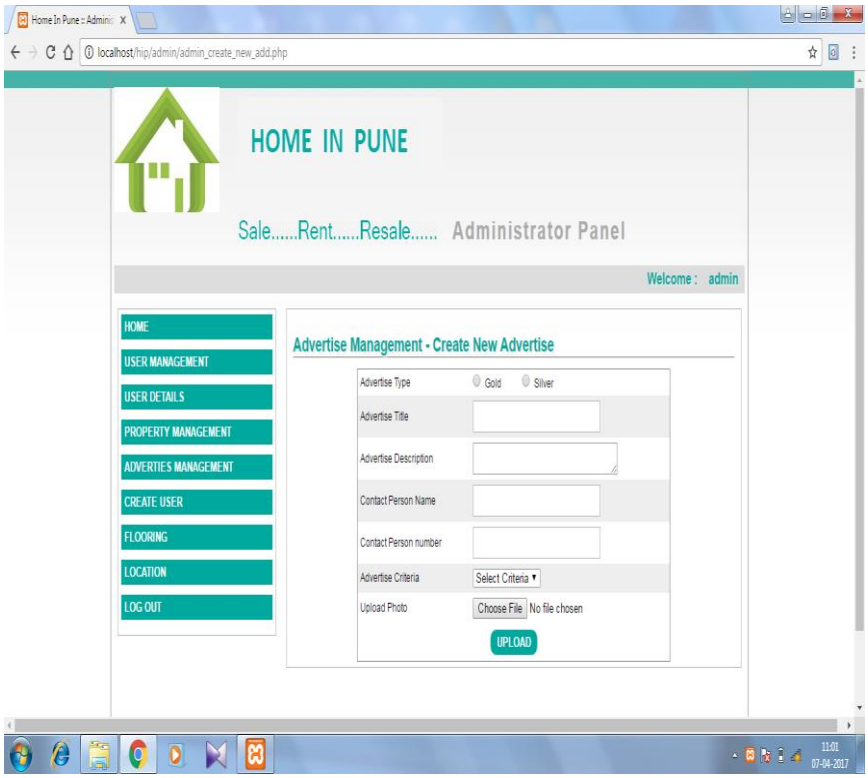
Post property type



Enquiry details



Create advertise



Create new user

Create new flooring type

Add new location

3.13 Data Dictionary

Field Name	Data Type	Size	Constraint	Description
A_type	Varchar	20	Not Null	Advertise type
Add	Text	-	Not Null	Address
Ans	Text	-	Not Null	
Auto_id	Int	11	Primary key	Unique id for user
Builder	Varchar	50	Not Null	
c_no	Varchar	16	Not Null	
C_no	Varchar	15	Not Null	Number
Club_house	Tinyint	4	Not Null	
Dalcony	Tinyint	4	Not Null	
Distance	varchar	200	Not Null	User score
Email_id	Text	-	Not Null	Email id
Email_id	Text	-	Not Null	Email id
Enq_dt	Date	-	Not Null	Enquiry Date

enq_id	Int	11	Primary key	User id for enquiry
Enquiry	Text	-	Not Null	Enquiry
F_name	Varchar	30	Not Null	User first name
Garden	Tinyint	4	Not Null	
Gen	Varchar	1	Not Null	Gender
Gen_backup	Tinyint	4	Not Null	
Hipstatus	Int	11	Not Null	
Inv_backup	Tinyint	4	Not Null	
L_name	Varchar	30	Not Null	User last name
Li_id	Int	11	Primary key	Primary key
Lift	Tinyint	4	Not Null	
Location	Text	-	Not Null	Not Null
Logo	Varchar	50	Not Null	
Mapink	Text	-	Not Null	

name	Varchar	50	Not Null	Name of user
Name	varchar	200	Not Null	Name of user
P_add	Text	-	Not Null	Address of property
P_age	Varchar	20	Not Null	
P_ament	Text		Not Null	Maintains of property
P_area	Varchar	30	Not Null	Property type
P_bath	Int	2	Not Null	
P_bed	Int	2	Not Null	
P_by	Varchar	50	Not Null	Byte name
P_car	Varchar	10	Not Null	
P_deal	Varchar	7	Not Null	Deal of property
P_dept	Int	8	Not Null	Department of property

P_desc	Text	-	Not Null	Description of property
P_dt	Date		Not Null	Date
P_flor	Varchar	50	Not Null	
P_fno	Int	2	Not Null	
P_fur	Varchar	20	Not Null	
P_id	Int	11	Not Null	Property of unique id
P_id	Int	11	Primary key	Unique id for user
P_name	Varchar	50	Not Null	Property type
P_photo	Text	-	Not Null	Property photo
P_rate	Int	10	Not Null	Property rate
P_rent	Int	7	Not Null	Property rent
P_sqft	Varchar	10	Not Null	Property
P_status	Varchar	2	Not Null	Status
P_type	Varchar	30	Not Null	Property type

Pass	Text	-	Not Null	Password
Passion	Varchar	30	Not Null	
Password	Varchar	15	Not Null	
Piped_gas	Tinyint	4	Not Null	
Reg_dt	Date	-	Not Null	Registration details
Role	Int	11	Not Null	
Sec	Text	-	Not Null	User section
status	varchar	2	Not Null	Not Null
Status	Varchar	2	Not Null	Status
Subject	Text	-	Not Null	Subject of Enquiry
Suburbs	Varchar	30	Not Null	
Swimming_pool	Tinyint	4	Not Null	
Terrace	Tinyint	4	Not Null	
Type	Varchar	50	Not Null	Type of user

Uid	Text	-	Not Null	User id
User_id	Varchar	50	Not Null	User Id
Username	Varchar	35	Not Null	

3.14 Table specification

Table name:- property

Field Name	Data Type	Size	Constraint	Description
P_id	Int	11	Not Null	Property of unique id
P_by	Varchar	50	Not Null	Byre name
P_deal	Varchar	7	Not Null	Deal of property
P_type	Varchar	30	Not Null	Property type
P_name	Varchar	50	Not Null	Property type
P_desc	Text	-	Not Null	Description of property
P_area	Varchar	30	Not Null	Property type
P_add	Text	-	Not Null	Address of property
P_fno	Int	2	Not Null	
P_age	Varchar	20	Not Null	
P_fur	Varchar	20	Not Null	
P_flor	Varchar	50	Not Null	
P_bed	Int	2	Not Null	
P_bath	Int	2	Not Null	
P_car	Varchar	10	Not Null	
P_ament	Text		Not Null	Maintains of property
P_sqft	Varchar	10	Not Null	Property
P_rent	Int	7	Not Null	Property rent
P_rate	Int	10	Not Null	Property

				rate
P_dept	Int	8	Not Null	Department of property
P_photo	Text	-	Not Null	Property photo
P_dt	Date		Not Null	Date
P_status	Varchar	2	Not Null	Status
Passion	Varchar	30	Not Null	
Hipstatus	Int	11	Not Null	
Suburbs	Varchar	30	Not Null	
Mapink	Text	-	Not Null	
Terrace	Tinyint	4	Not Null	
Dalcony	Tinyint	4	Not Null	
Lift	Tinyint	4	Not Null	
Swimming_pool	Tinyint	4	Not Null	
Garden	Tinyint	4	Not Null	
Gen_backup	Tinyint	4	Not Null	
Club_house	Tinyint	4	Not Null	
Inv_backup	Tinyint	4	Not Null	
Piped_gas	Tinyint	4	Not Null	
	Tinyint	4	Not Null	

Table name:- property details

Field Name	Data Type	Size	Constraint	Description
P_id	Int	11	Primary key	Property id
Ptype	Varchar	50	Not Null	Property type
Size	Varchar	20	Not Null	Property size
Area	Varchar	20	Not Null	Property area
Pricefrom	Double	-	Not Null	Property price of from
Priceto	Double		Not Null	Price

Table name:- Location

Field Name	Data Type	Size	Constraint	Description
Li_id	Int	11	Primary key	Primary key
Location	Text	-	Not Null	Not Null
status	varchar	2	Not Null	Not Null

Table name:- walkscore

Field Name	Data Type	Size	Constraint	Description
P_id	Int	11	Primary key	Unique id for user
Name	varchar	200	Not Null	Name of user
Distance	varchar	200	Not Null	User score
Type	Varchar	50	Not Null	Type of user

Table name:- User_reg

Field Name	Data Type	Size	Constraint	Description
Auto_id	Int	11	Primary key	Unique id for user
A_type	Varchar	20	Not Null	Advertise type
F_name	Varchar	30	Not Null	User first name
L_name	Varchar	30	Not Null	User last name
Gen	Varchar	1	Not Null	Gender
C_no	Varchar	15	Not Null	Number
Add	Text	-	Not Null	Address
Email_id	Text	-	Not Null	Email id
Uid	Text	-	Not Null	User id
Pass	Text	-	Not Null	Password
Sec	Text	-	Not Null	User section
Ans	Text	-	Not Null	
Reg_dt	Date	-	Not Null	Registration details
Status	Varchar	2	Not Null	Status
Builder	Varchar	50	Not Null	
Logo	Varchar	50	Not Null	
Role	Int	11	Not Null	

Table name:- enquiry

Field Name	Data Type	Size	Constraint	Description
enq_id	Int	11	Primary key	User id for enquiry
name	Varchar	50	Not Null	Name of user
Email_id	Text	-	Not Null	Email id
c_no	Varchar	16	Not Null	
Subject	Text	-	Not Null	Subject of Enquiry
Enquiry	Text	-	Not Null	Enquiry
Enq_dt	Date	-	Not Null	Enquiry Date
User_id	Varchar	50	Not Null	User Id

Table Name:- advertise

Field Name	Data Type	Size	Constraint	Description
Ad_id	Int	11	Primary key	Unique Id of advertise
A_type	Varchar	6	Not Null	Type of advertise
A_title	varchar	40	Not Null	Title of advertise
A_info	Text	-	Not Null	Advertise of information
A_cper	Varchar	40	Not Null	Owner
A_cno	Varchar	16	Not Null	Ph number
A_img	Text	-	Not Null	Advertise
A_dt	Date	-	Not Null	Date
A_status	Varchar	2	Not Null	Status
criteria	Varchar	10	Not Null	Select criteria

3.15 Test Procedures and Implementation

Testing

Introduction:-

Testing is the method of checking whether the software is performing the given task successfully as expected or not. The expected speed, performance, accuracy and expected time should be taken into consideration while testing.

A system should always be tested thoroughly before implementing it, as regards its individual programs, the system as a whole user acceptance etc. This is because implementing a new system is a major job which requires a lot of man hour and a lot of other resources, so an error not detected before implementation may cost a lot. Effective testing early in the process translates directly into long term cost savings from reduced number of errors. This is also necessary because in some cases, a small error is not detected and corrected before installation, which may explode into much larger problem.

Programming and testing is followed by the stage of installing the new system. Actual implementation of the system can begin at this point either using a parallel or a direct change over plan or some blend of two.

Software testing is a critical element of software quality assurance and represents the ultimate review of specification, design and coding. The purpose of product testing is to verify and validate the various work products viz. units, integrate units, final product to ensure that they meet their respective requirements.

Testing Objectives

The testing objectives are summarized in the following three steps:

1. Testing is a process of executing a program with the intent of finding an error.
2. A good test case is one that has a high probability of finding an as yet undiscovered error.
3. A successful test is the one that uncover an as yet undiscovered error.

Our objective is to design tests that systematically uncover different classes of errors and do so with a minimum amount of time and effort.

Testing Methods:

1) Unit Testing:

A Unit testing focuses verification efforts on the smallest unit of software design the module. The unit test is normally white box oriented and the step can be conducted in parallel for multiple modules. In unit testing the module interface was tested to ensure that information properly flows into and out of a program unit under test

2) Integration Testing:

Although each module is verified individually during modules testing, it is important to determine if the modules are working properly when linked together. This is also referred to as integration testing or also as interfacing. In this step output is compared with the manually calculated output. This comparison gives the result of system testing. This finally ensures that the system is functioning properly.

3) System Testing:

It is the testing of the whole system prior to delivery. The purpose of system testing is to identify defects that will only surface when a complete system is assembled. i.e. defects that cannot be attributed to individual components or the interaction between two components. System testing includes testing of performance, security, configuration sensitivity, startup and recovery from failure modes. The results were satisfactory and thus the accuracy and reliability of the system is tested.

4) GUI Testing:

The GUI testing (Graphical User Interface) testing are important testing guidelines for specialized environments, architectures and all application that are commonly encountered by all the software engineer. As modern GUIs have same look, and feel series of standard test can be derived.

Some of the GUI standard which was verified are:

- Forms enterable and display only formats.
- Wording of alerts, error messages and help features.
- Screen layout.

Thus through the testing, a wide range of errors were encountered which enables us to understands the system as well broadened our knowledge of ASP.Net language.

5) Platform testing:

For web-application, platform testing means four main points, viz.

- Web forms display correctly on all supported browsers and supported versions of those browsers.
- The web application appropriately handles unsupported browser versions, such as by displaying instructions for downloading the required version.

- The web application has acceptable performance over slower forms of network connections such as Modems.

PREPARATION OF TEST DATA

Test Case: A "Test Case" is a unit of testing activity.

Using Artificial Test Data:

Artificial test data was used to test all the combination of formats and values. It was designed keeping in mind the intention that it should make possible the testing of all logic and control paths through the program.

The artificial test data was prepared based on the following checks:

Range checks: data was chosen in such a way that there were value exceeding range, outside the range and values at the boundaries.

Field Size checks: data was chosen in such a way that there were value exceeding the maximum width of the field.

Key Fields: data was chosen so that primary key and foreign key Constraintss would be violated.

Data type checks: data was chosen in such a way that it would not match with the data types.

Login Page:

Test Case Id: TC001 Test Case Name: Admin				
Sr. No.	**Test Case Description**	**Test Input Data**	**Expected Output**	**Remark**
1	Enter login name and press Submit button.	Login name= “abcdef”	Error: Invalid Username & Password	Pass
2	Enter password and press Submit button	Password= “1234”	Error: Invalid Username	Pass

			& Password	
3	Enter login name and password	Login name= “#dd24rtw” and password= “abcddef”	Error: Invalid Username & Password	Pass
4	Enter login name and password	Login name= “123ABC” password=<Blank>	Error: Invalid Username & Password	Pass
5	Enter login name and password	Login name= <Blank> password=<Blank>	Error: Invalid Username & Password	Pass
6	Enter login name and password	Login name= “admin” password= “admin”	Accepted	Pass

Requirement Form for Builder/Agent/User

Test Case Id: TC002 Test Case Name: Customer Requirement				
Sr. No.	**Test Case Description**	**Test Input Data**	**Expected Output**	**Remark**
1	Enter Name and press Submit Button	Name=v2inay	Error message Invalid Name	Pass
2	Enter e-mail ID and press submit button	email=”123ghj@jjd.com”	Error message “Please enter valid e-mail id ”	Pass
3	Enter phone number and submit	Phone=56745678 9664443	Error message “Invalid Phone Number”	Pass
4	Select Type of property and submit	Type of property=”Select All ”	Error message “Please select a Property Type”	Pass
5	Select location and To submit button	Location=”Select”	Error message “Please select a	Pass

			Location”	
6	Enter Name,Email,phone,Type of property,Location and submit	Name=Vinayak Padwalkar, Email=padwalkar1155@gmail.com,9503698270,Apartment,Margao,5,00,000,please specify me a property at beach Side.	Accepted	Pass

CHAPTER 4 :

USER MANUAL

4.1 User Manual

The main objective of this project for Administrator is to set various commands (E.g. user management, builder/agent management, Post/FAQ management, job post and advertise management etc.) For the system which will be the prerequisite data to run system appropriately. For visitor the main objective is to apply for property. And for admin to search a prospectus client for a property.

There are 4 users for this system,

1) Administrator
2) owner
3) agent
4) customer

Administrator

The Various Functions are as follows:

- Login
- Manage user

  Accept, Edit, Delete, Block user
- Manage Property

  Add, Edit, Delete property
- Manage Location

  Add, Edit, Delete Designation
- Manage Employee

  Add, Edit, Delete Employee
- Manage Advertise

  Add, Edit, Delete, Advertise
- Logout

Owner

- Registration
- Login
- Post property
- Logout

Agent

- Registration
- Login
- Post Property
- Logout

Customer

- Visit web site
- Search property

  Select price, select type of property
- Request for site visit
- Specify requirements
- Give feedback

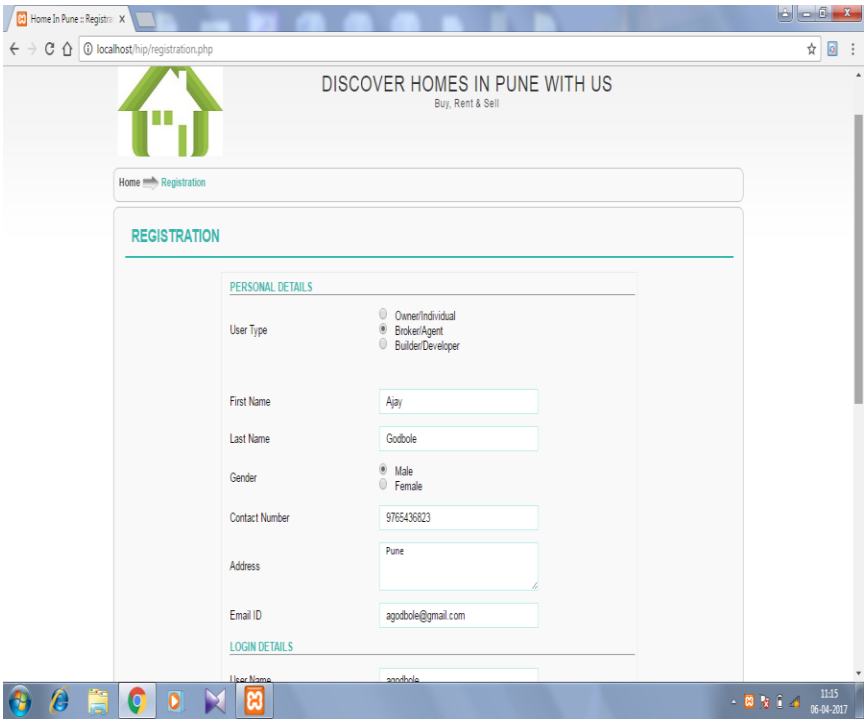
4.2 Operations Manual

Manual for user

1. For registration

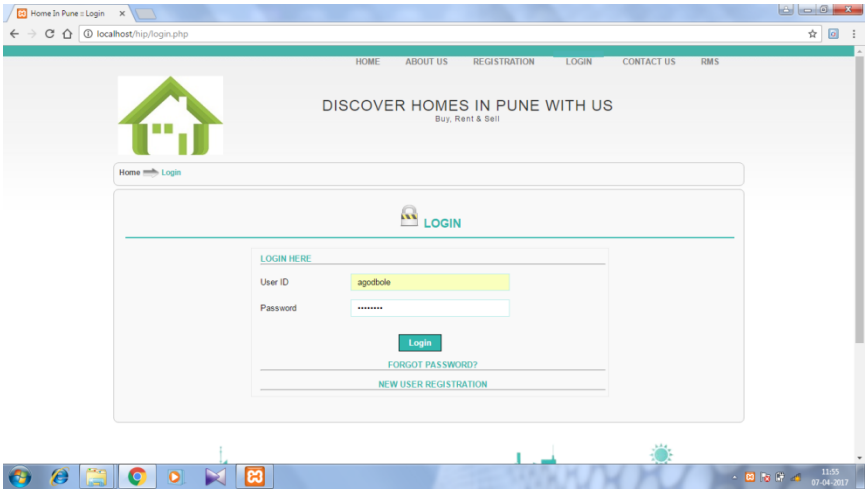
   Select the registration option from the top of a website.

Select the option of user type and fill the information about user and submit the registration details.



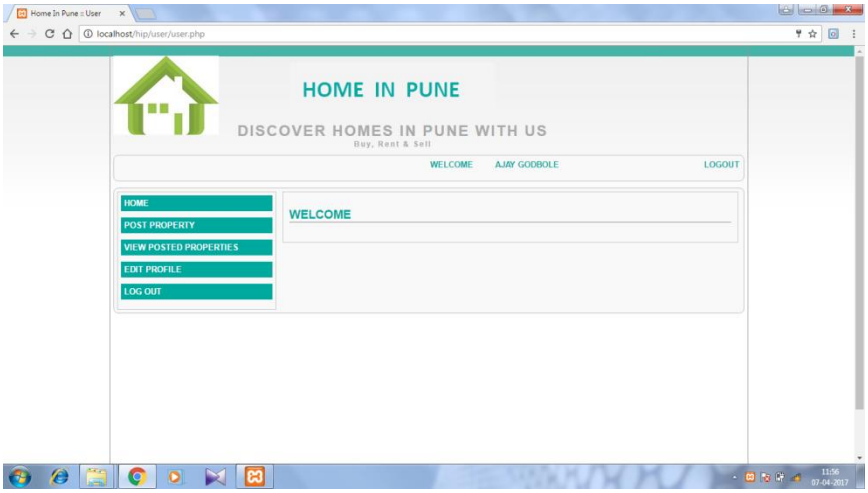
Then click register button. Account of user will be created.

Now user can login and he can post property

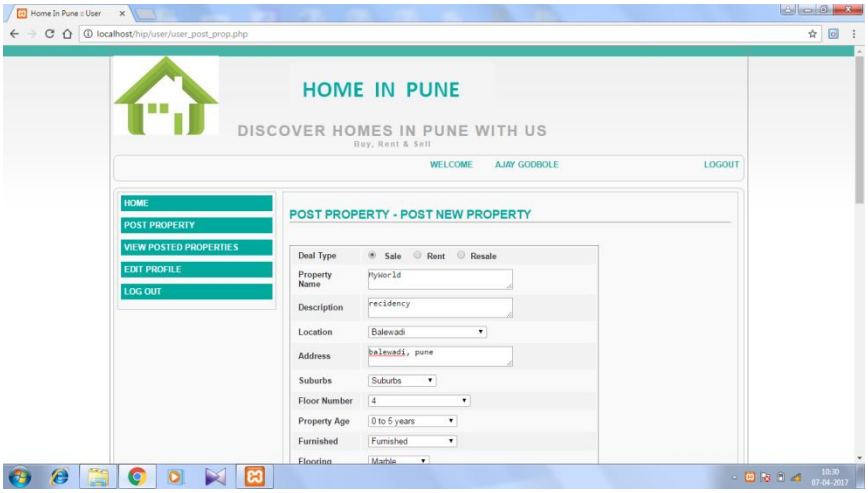


2. To post property

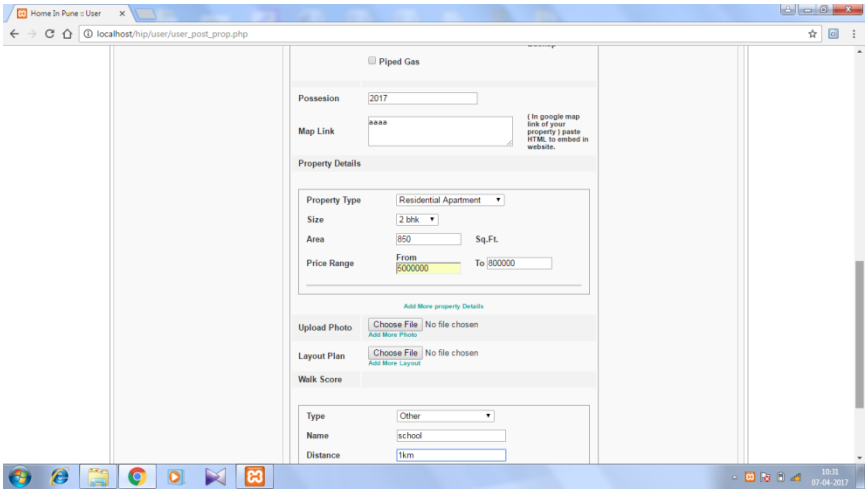
   Click on post property option on the left side



Fill the details of property



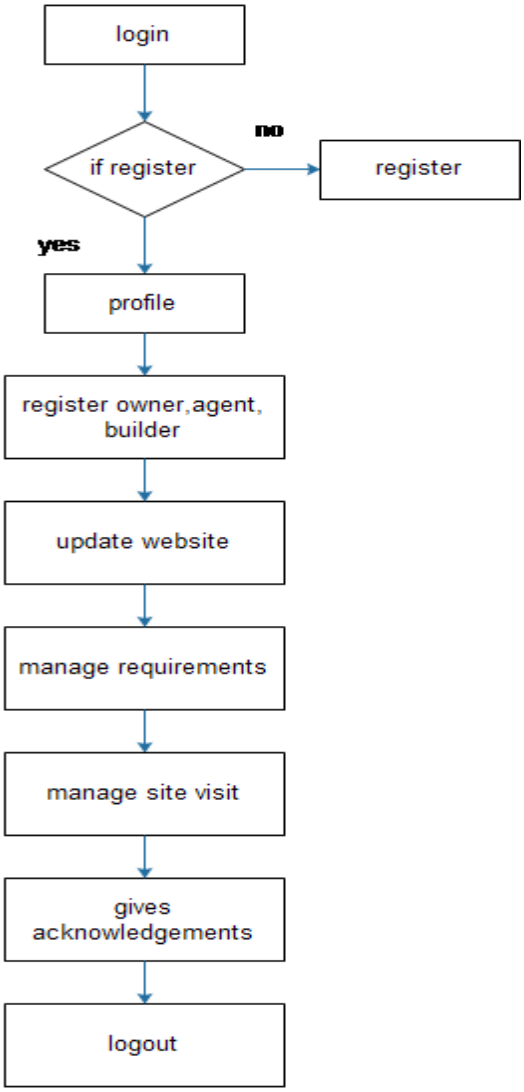
Set property type



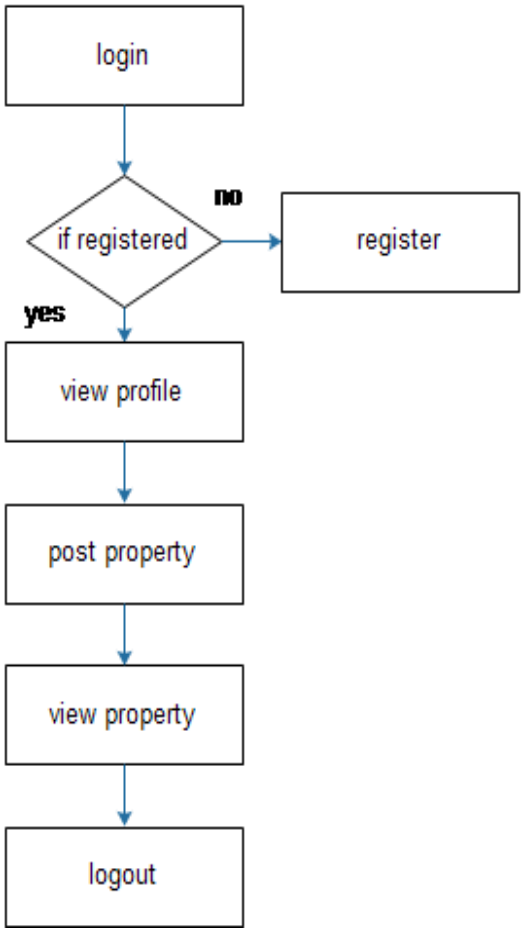
Click to post property. User can see the property which is uploaded by him.

4.4 Flow charts

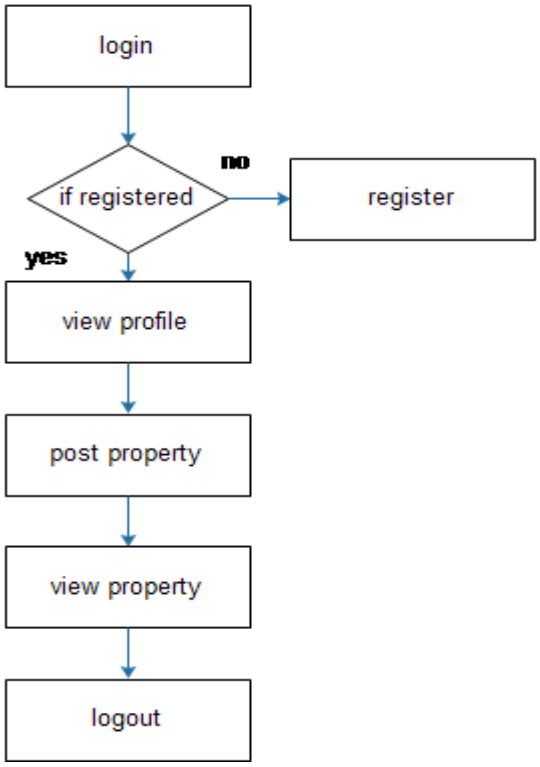
4.4.1 Admin flow chart



4.4.2 Agent flow chart



4.4.3 Owner flow chart



CHAPTER 5 : Drawbacks and Limitations

Drawbacks and Limitations

- The user should be an authorized user so that the no violation should be done.
- The data storage is on web server hence the performance of the system may degrade as the number of users are increased.
- Agent should post the correct information property
- Maps are not provided for the convenience of the user.
- Advanced search facility is available only for registered user.
- It does not have online agreement facility.
- It does not have booking facility.

CHAPTER 6 :
Proposed Enhancements

Proposed Enhancements

- Allow user to create account.
- Support for email and SMS service.
- Store users search preferences.
- Allow user to make payment online.
- Online property registration.
- Enhancement of the existing GUI would always have been a part of further enhancement system.
- Maps are provided to facilitate the users.
- Send SMS to property owner , agent have registered and uploaded his property.
- Upload videos / 3d views of the property

CHAPTER 7 :
Conclusions

Conclusions

- The “Home in Pune” which is a web based application developed for property search . The Home in pune will provide an easy-to-use, intuitive Graphical User Interface (GUI) as part of the Administrator’s working desktop environment.
- The Home in Pune will also provide an interactive GUI.
- This project is developed in PHP.
- Home in Pune is one of the newest online website provides property to all customers who want to settle in Pune of looking out for a new property in Pune of looking out for rental houses, offices etc in a very easy fission. This website enables the Customers to have a look of the property by having the look at the photos which are being uploaded of the property online.

Bibliography

Books Referenced

PHP Tutorial - Halil Özmen.

2. Object Oriented Programing in PHP5 - Adrian Giurca.

5. PHP 5 Reference– Nur Dwi Muryanto.

6. Beginer to Intermediate PHP 5 – Mario Lurig

Site referred

- www.freewebmasterhelp.com/tutorials/php/
- www.zend.com/zend/art/intro.php

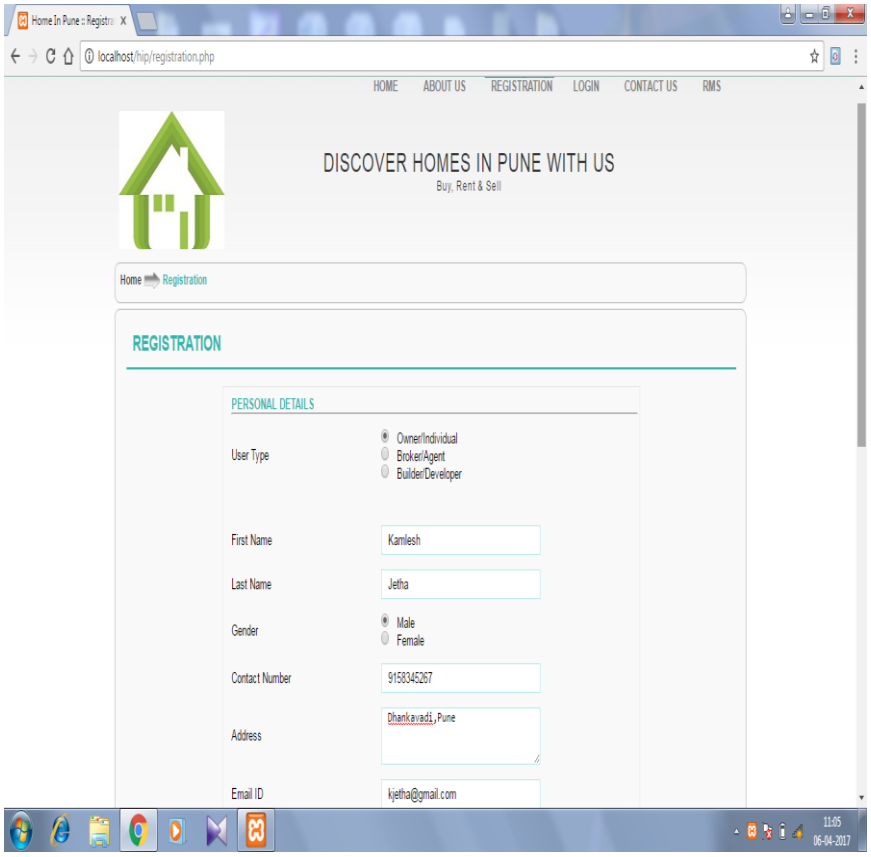
ANNEXURES

ANNEXURE 1 : USER INTERFACE SCREENS

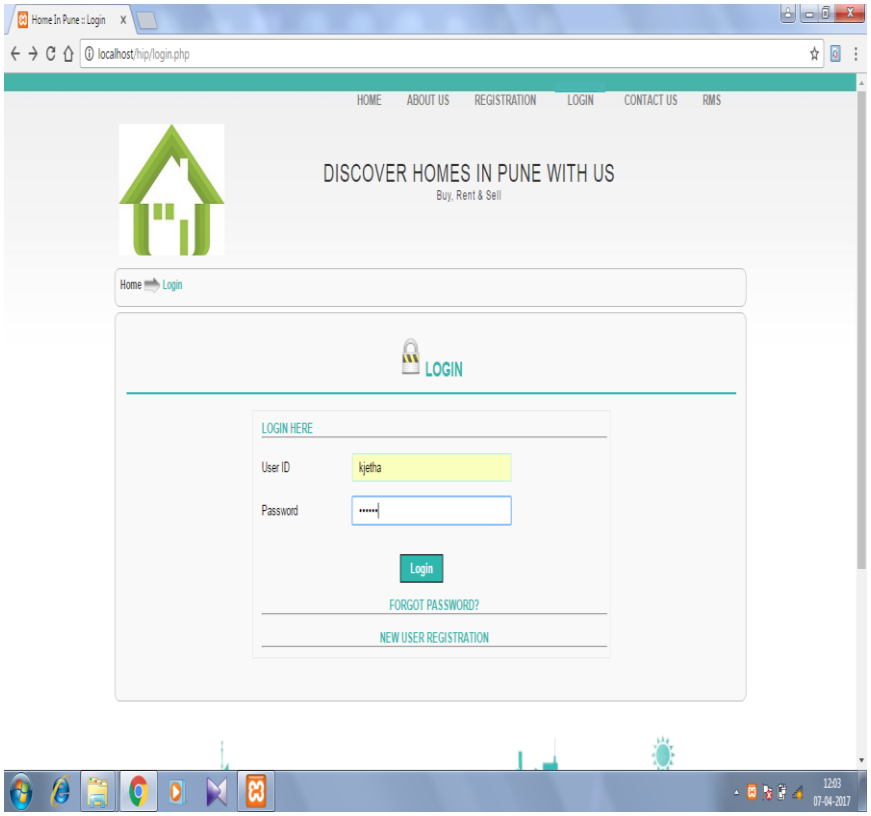
Home in Pune

Home In Pune
localhost/hip/index.php
HOME
ABOUT US
REGISTRATION
LOGIN
CONTACT US
RMS
HOME IN PUNE
Sale.....Rent.....Resale.....
Blog
Vastu
Buy
Rent
Resale
Services
Social Network
Quick Search(Location)
SEARCH
GOEL GANGA
ICICI Bank
Home Loans
khayaal aapka
DARODE-JOG
PROPERTIES
11:49
07-04-2017

Registration of Owner

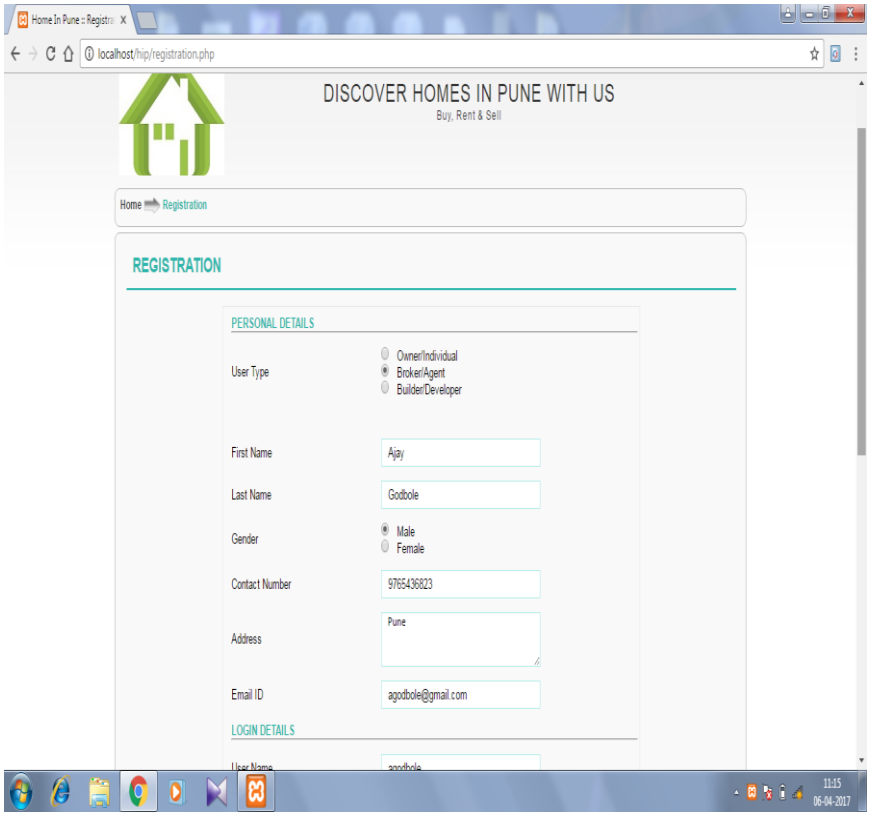


Login of owner

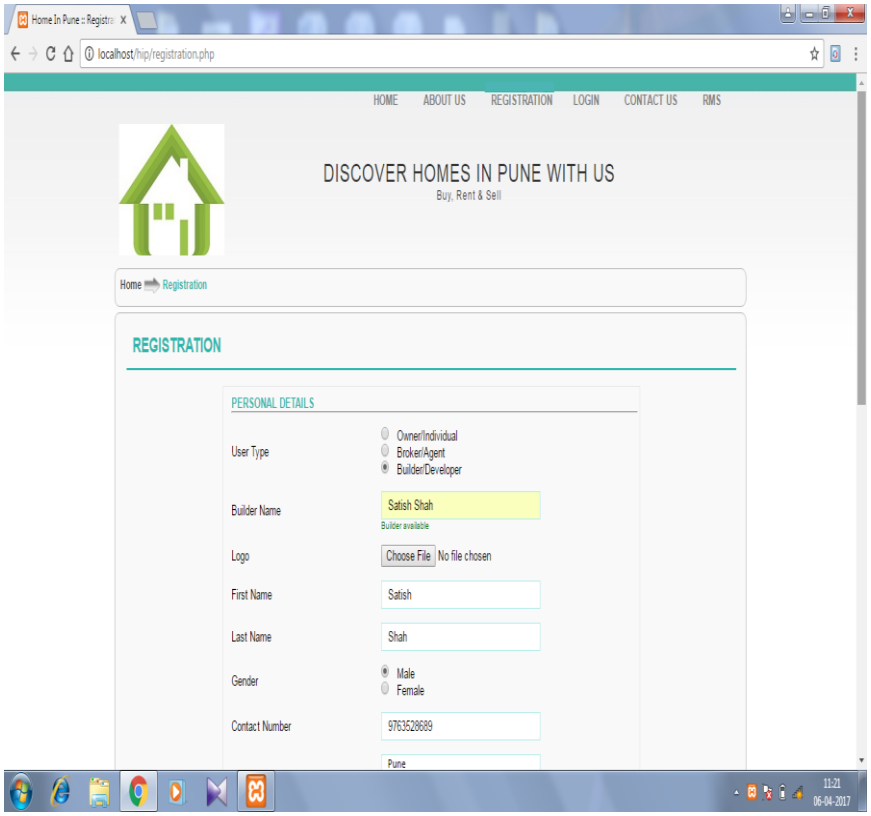


Profile of owner

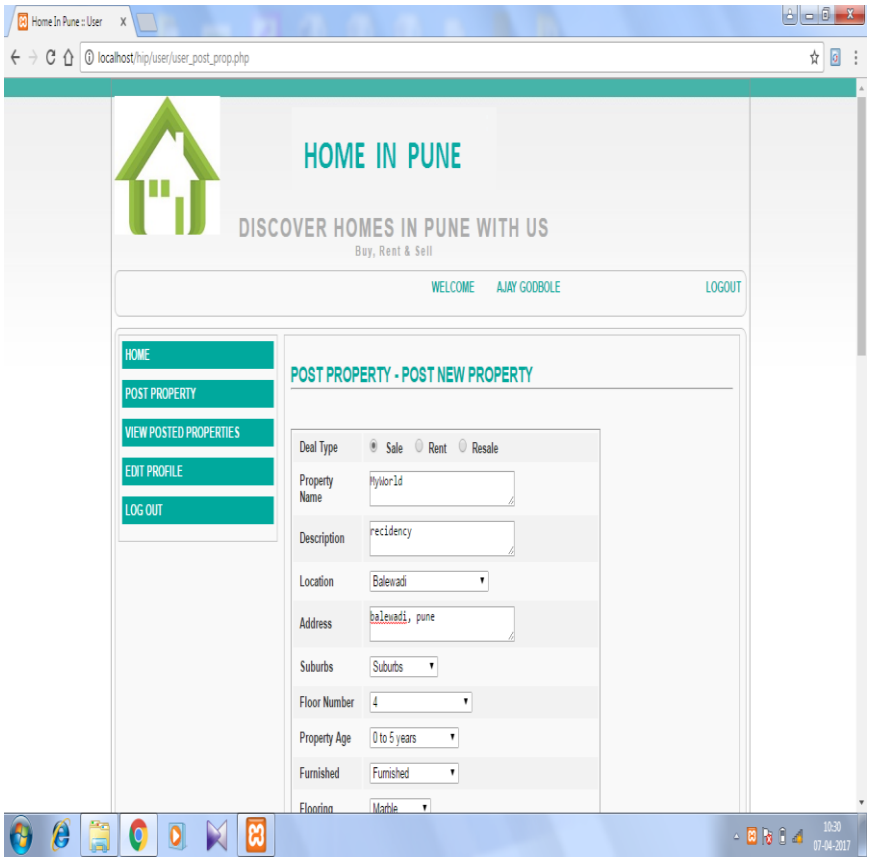
Registration of broker



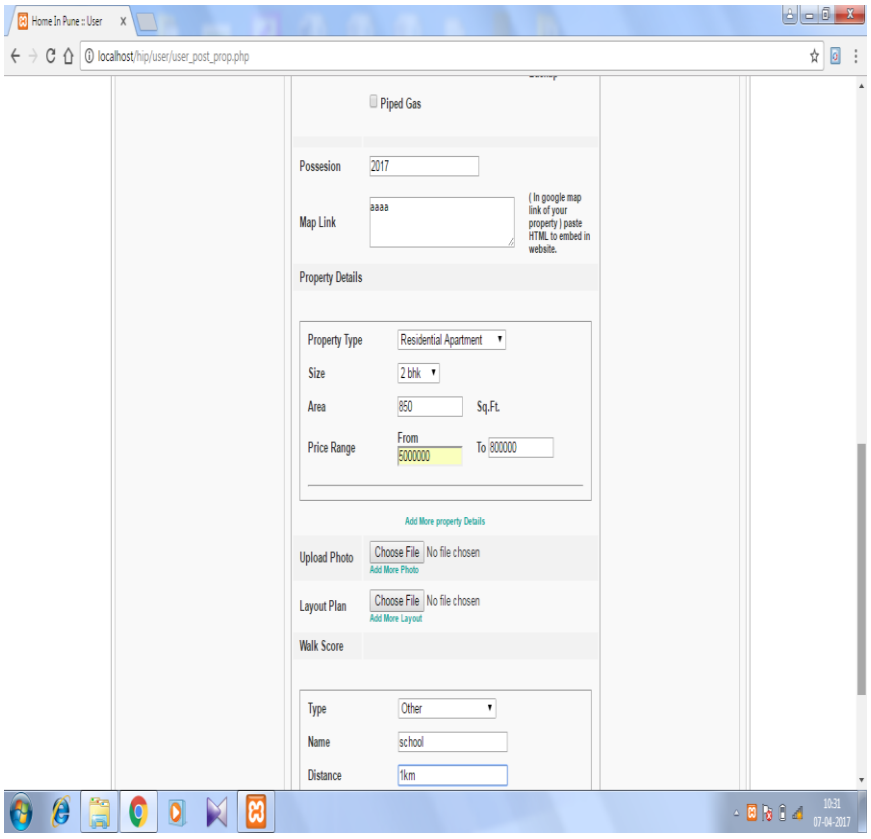
Registration of builder



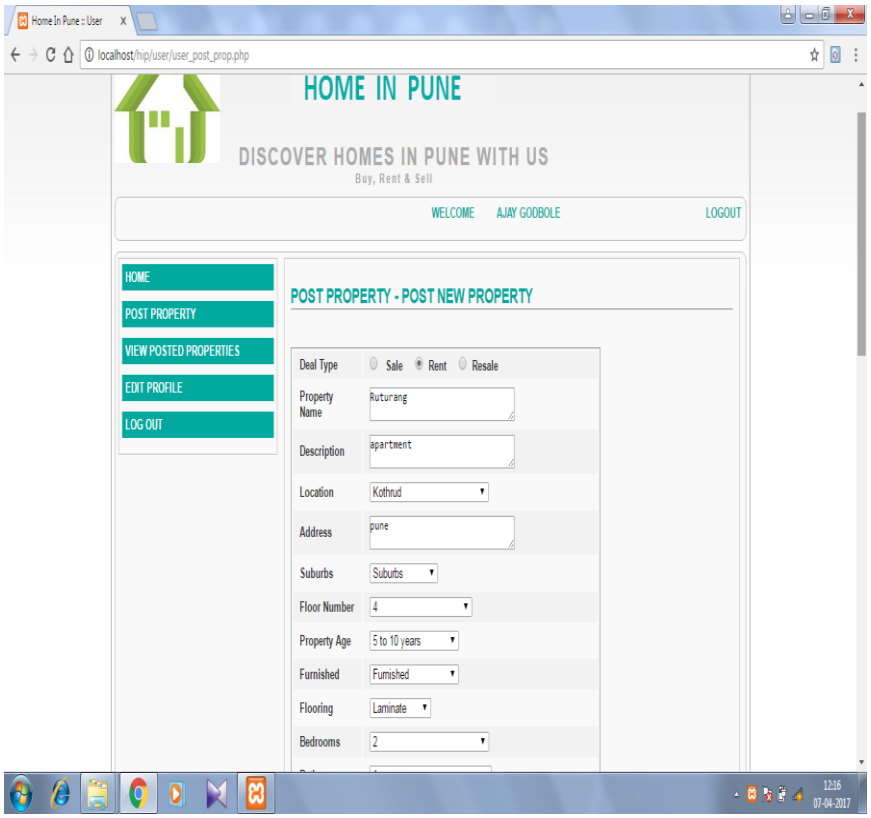
Post new property



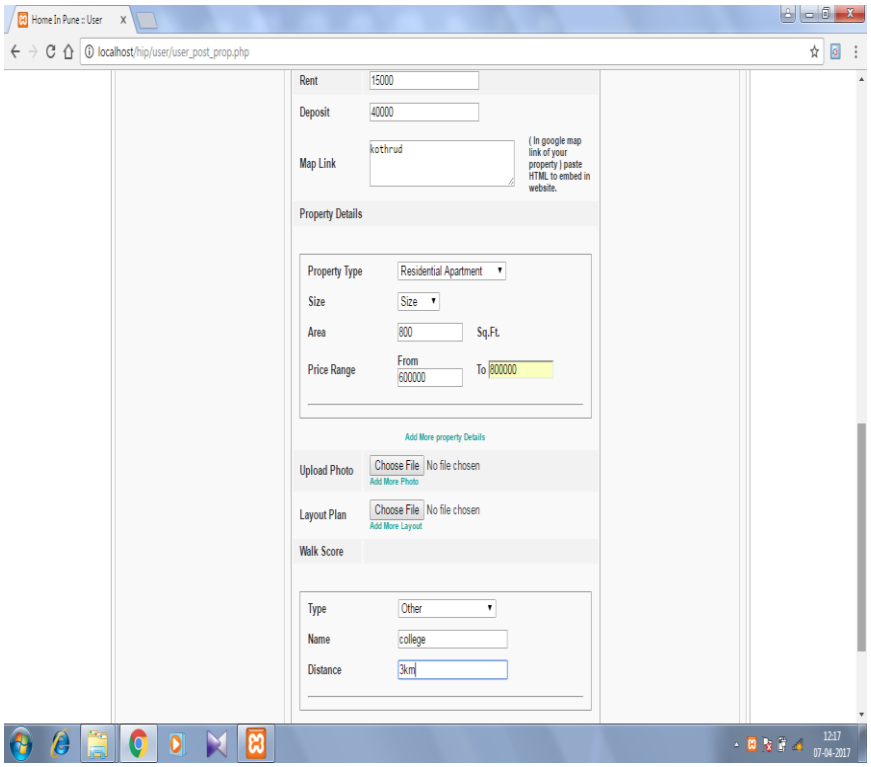
Set property type



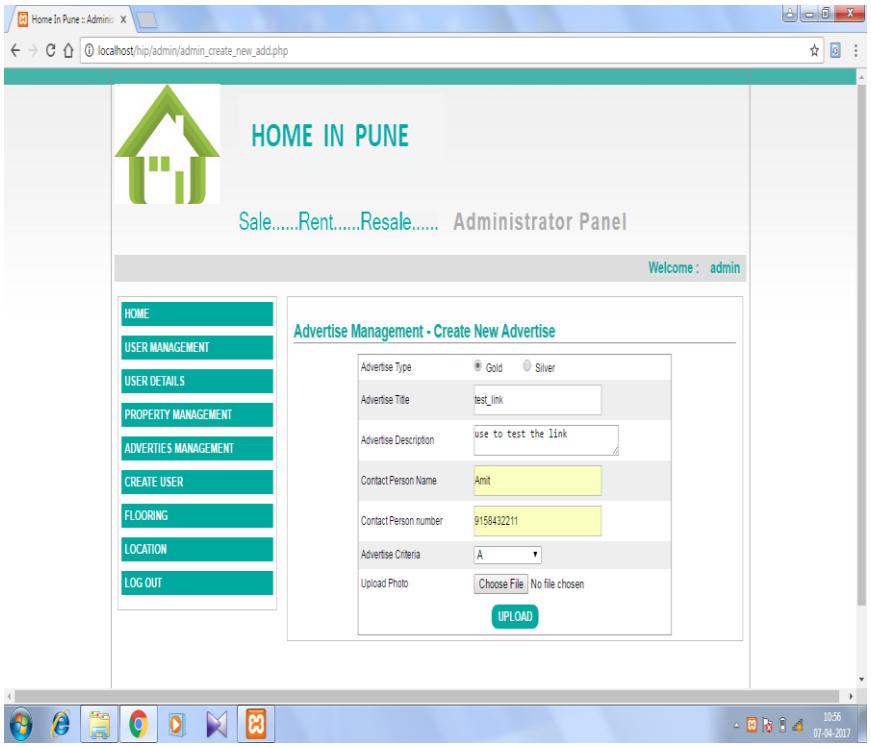
Post new property



Property details



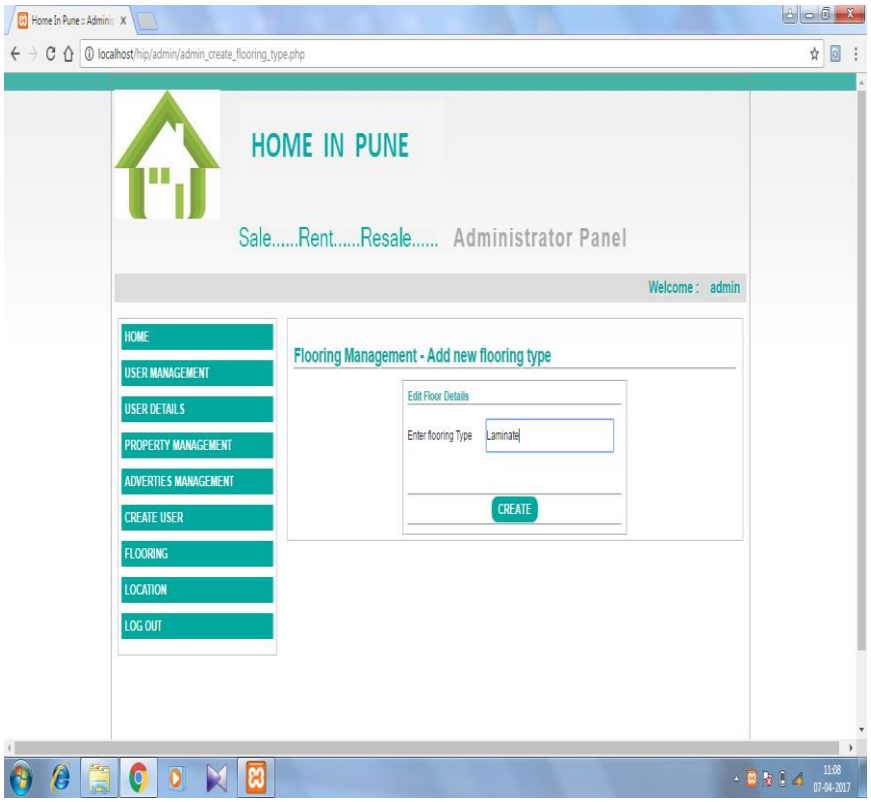
Create advertisement



Create user

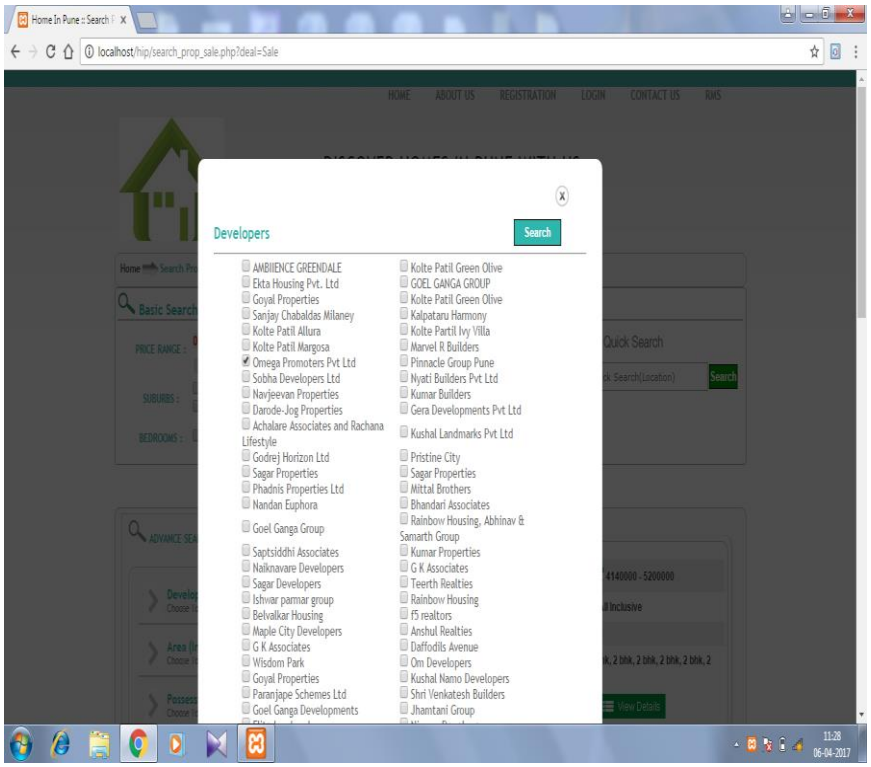
Home In Pune :: Admin
localhost/hip/admin/create_new_user.php
HOME IN PUNE
Sale.....Rent.....Resale..... Administrator Panel
Welcome : admin
HOME
USER MANAGEMENT
USER DETAILS
PROPERTY MANAGEMENT
ADVERTIES MANAGEMENT
CREATE USER
FLOORING
LOCATION
LOG OUT
Create New User
Name
Swapnil
UserName
swap
Password
submit

Add flooring type

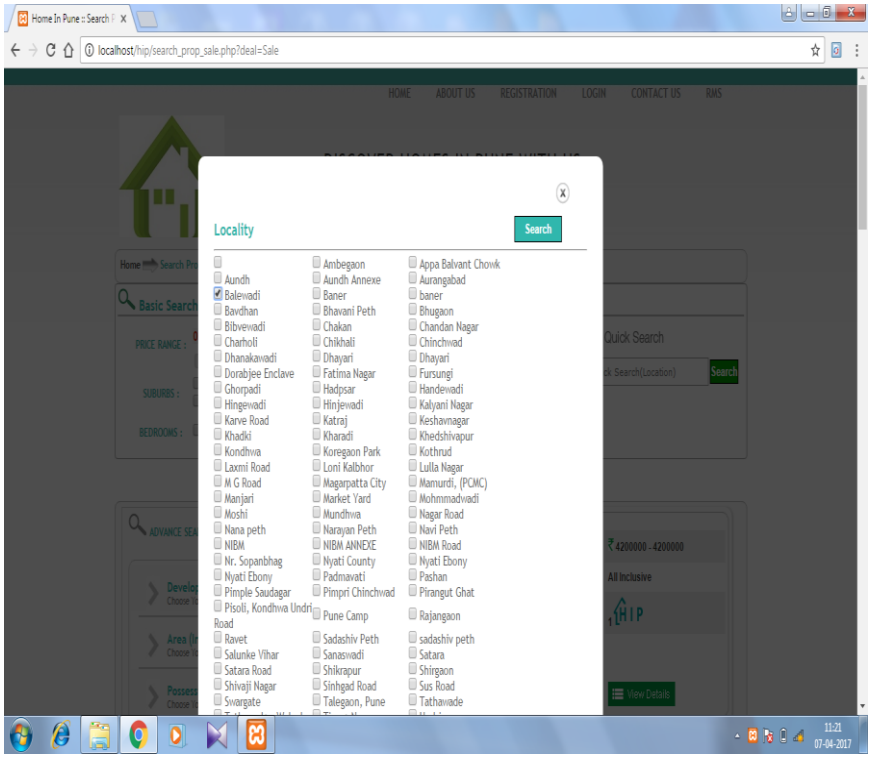


Add location

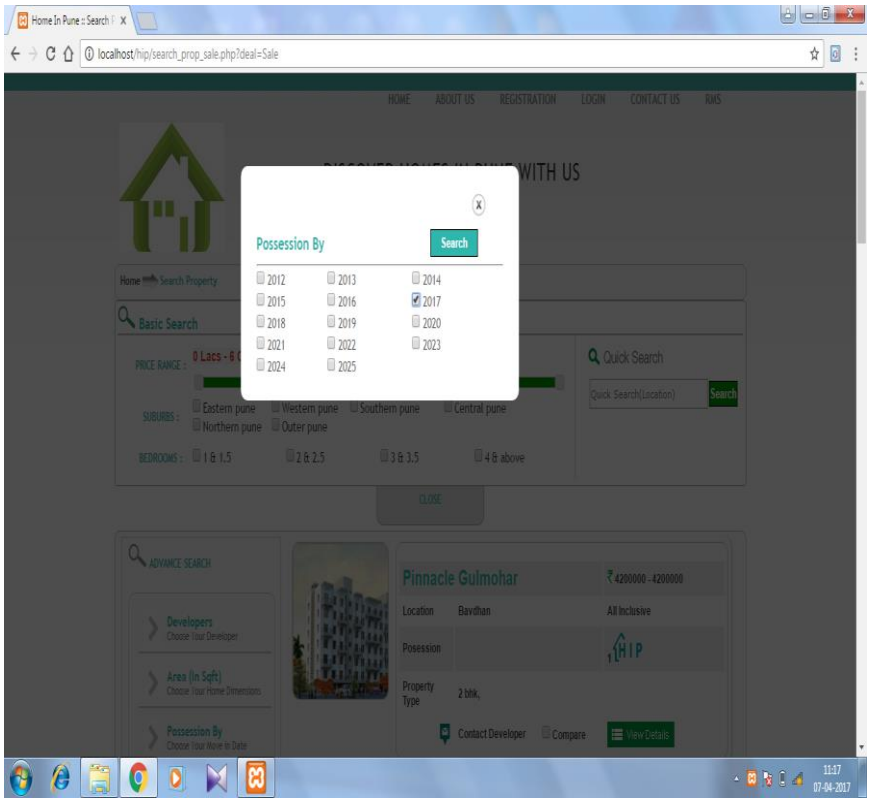
Search developer



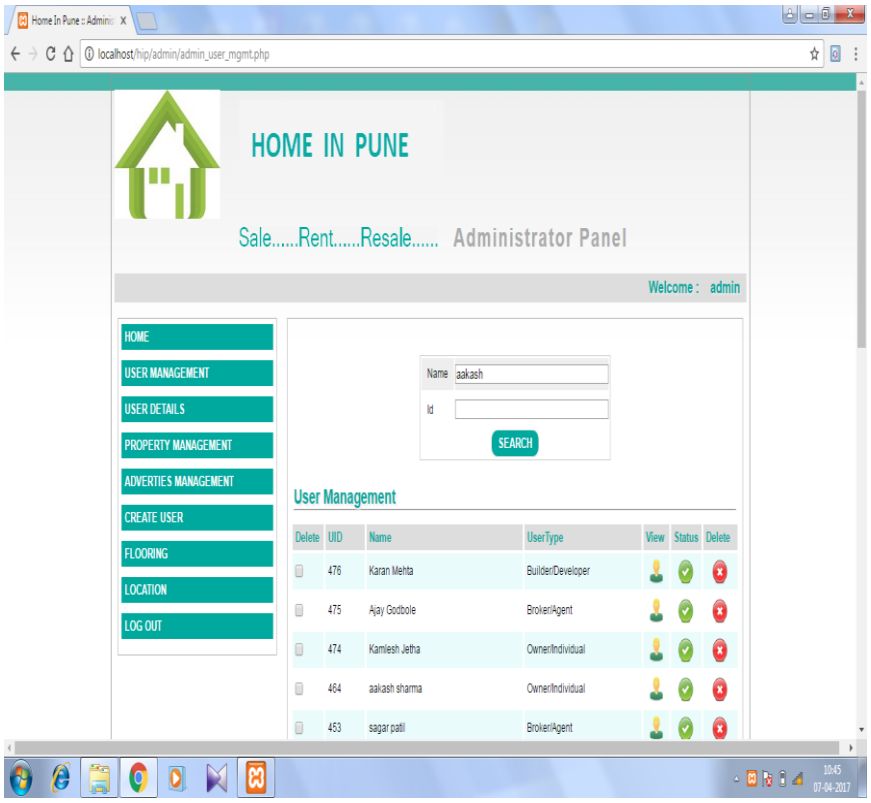
Search locality wise property



Search possession wise property

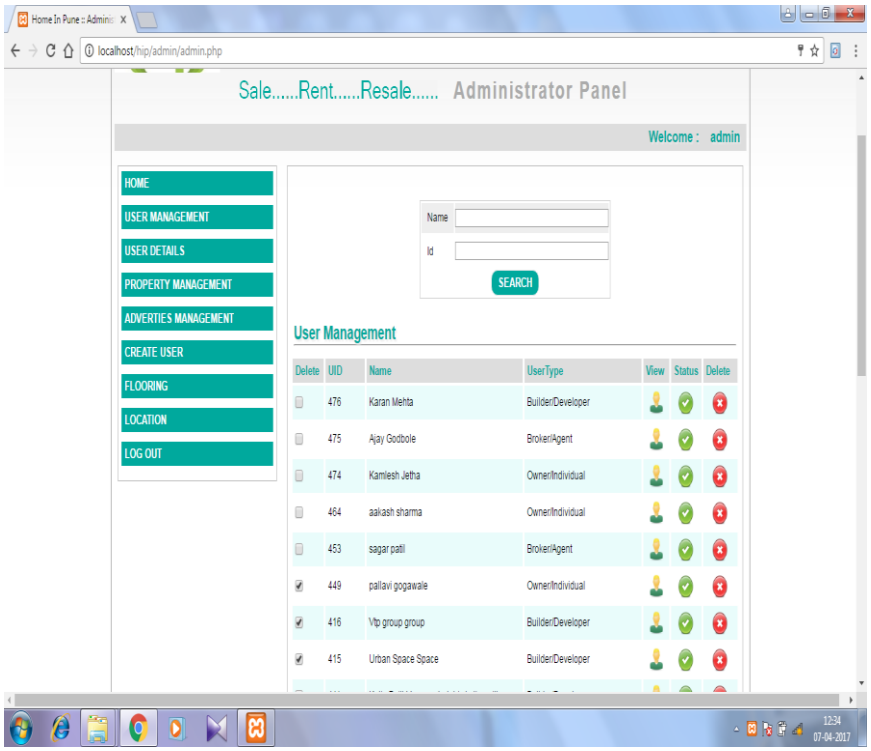


Search individual user



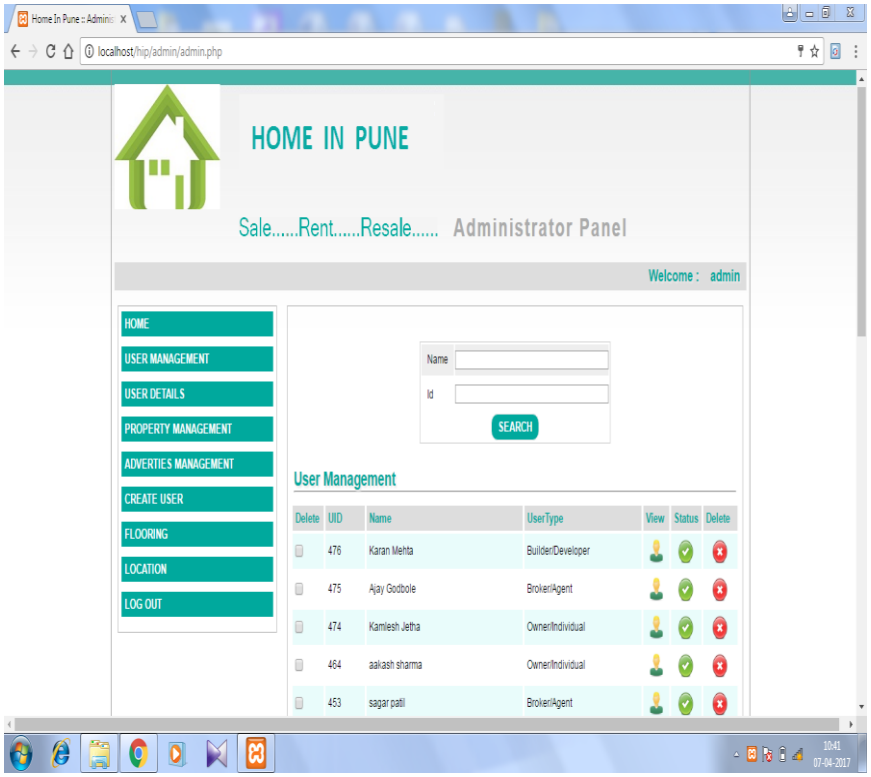
Search individual property

Delete multiple users



ANNEXURE 2 : OUTPUT REPORTS WITH DATA

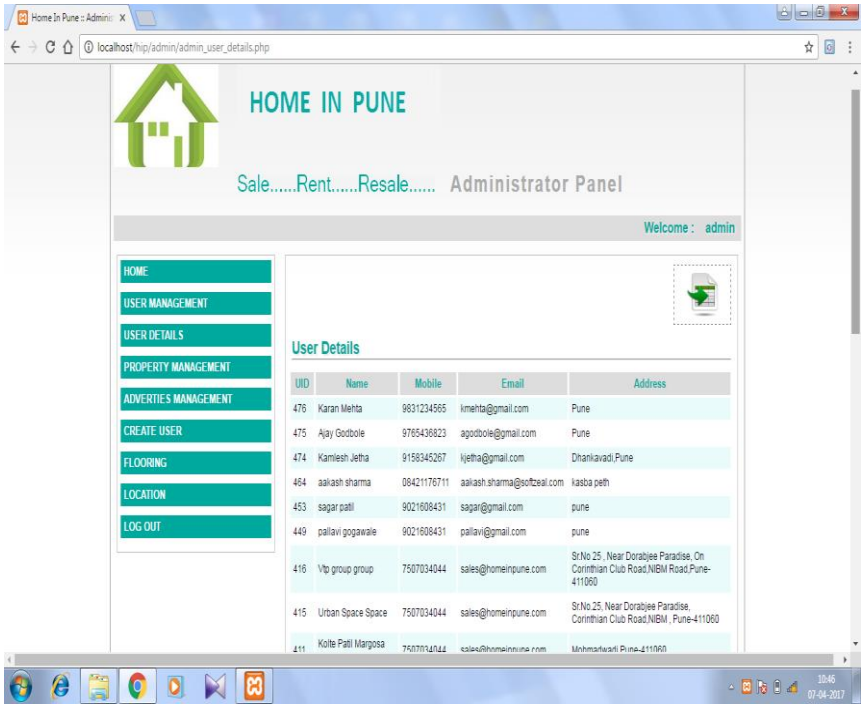
User management



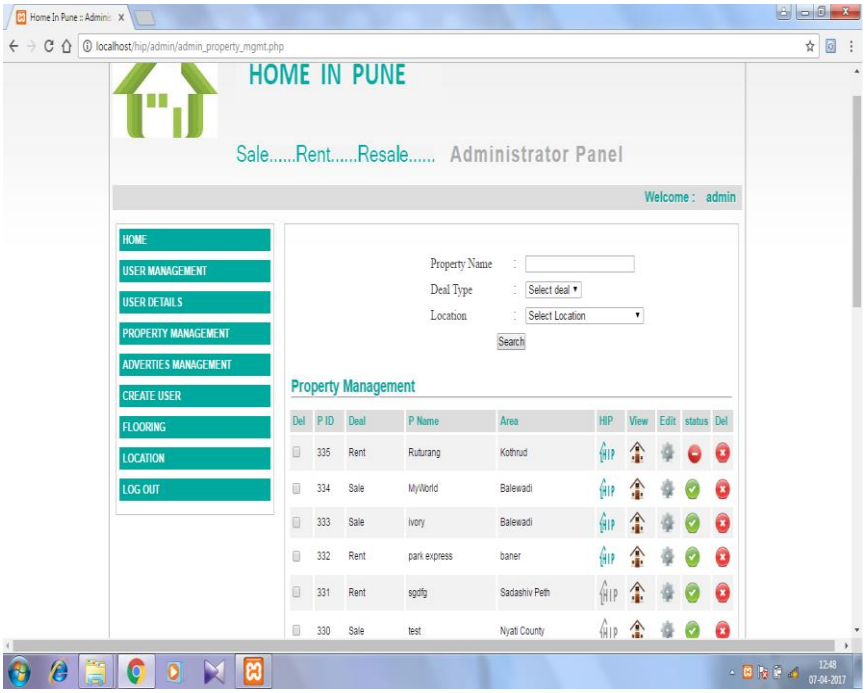
Posted property details

Second posted property

Details of user

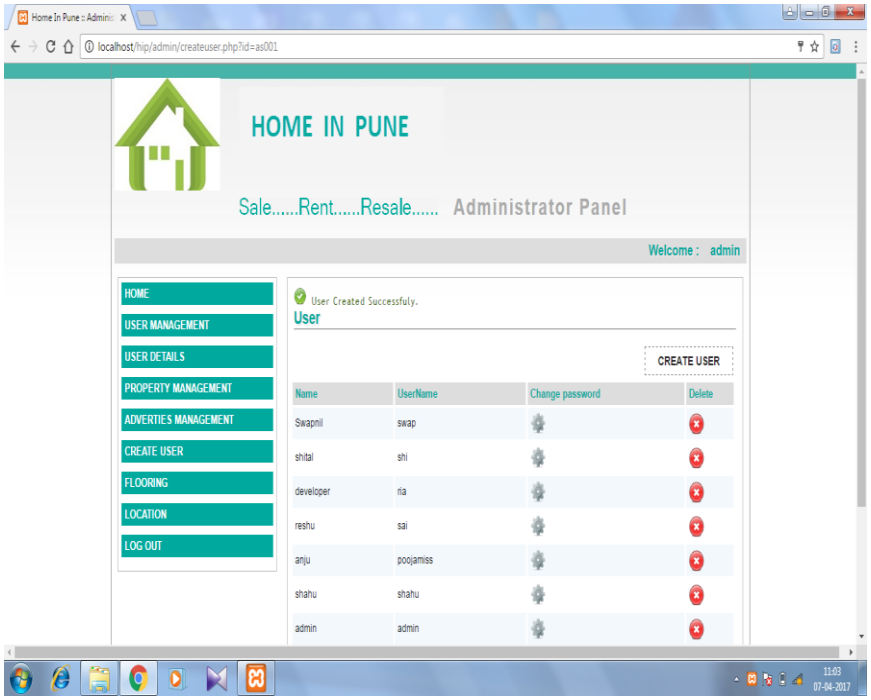


Property details from administrator panel

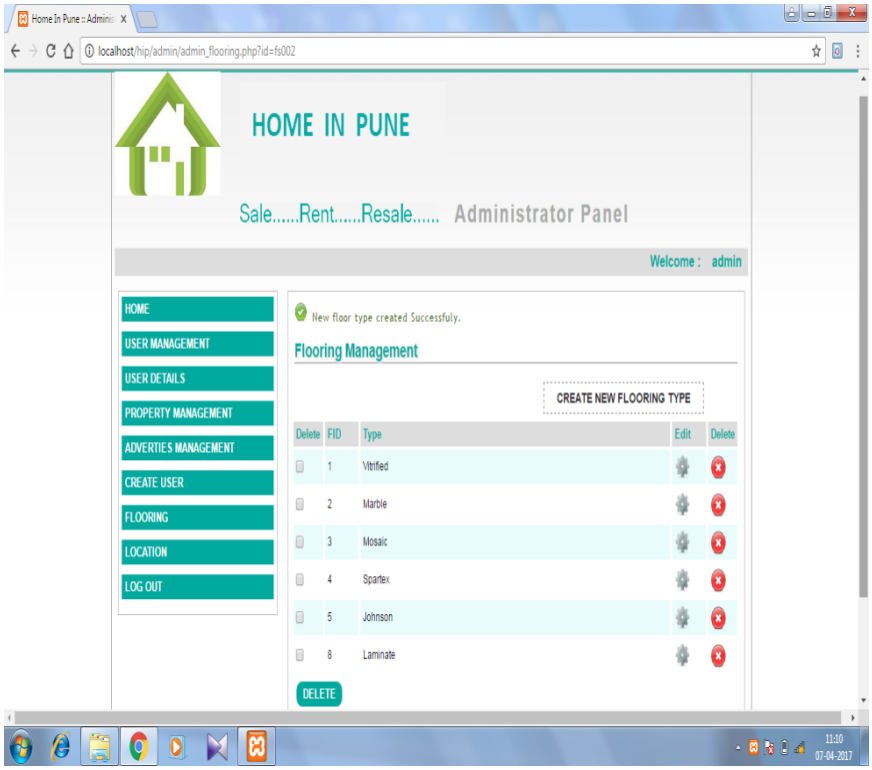


Advertisement created

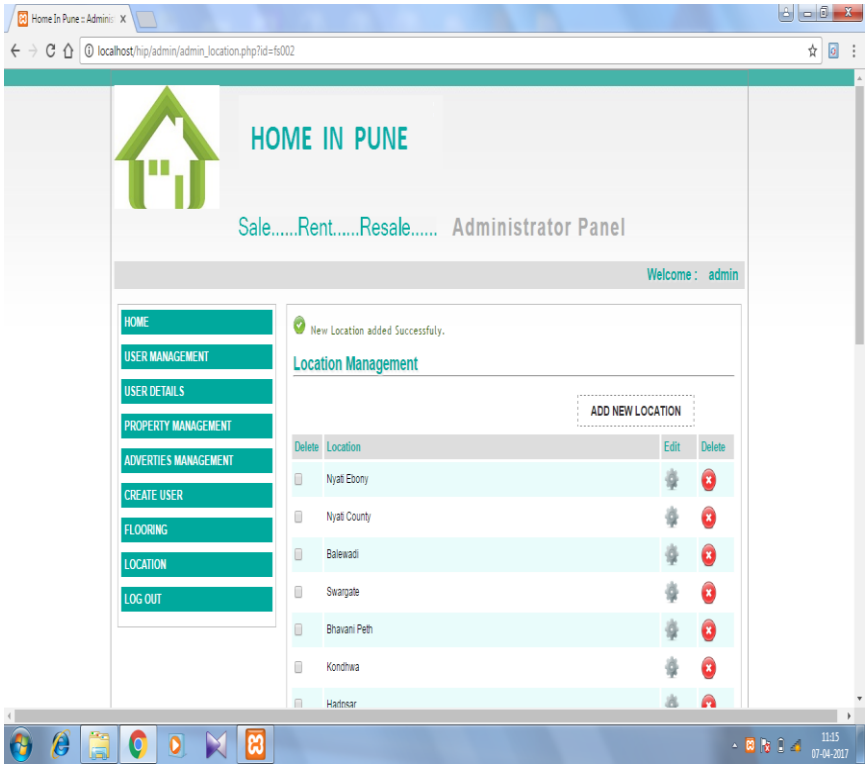
User created



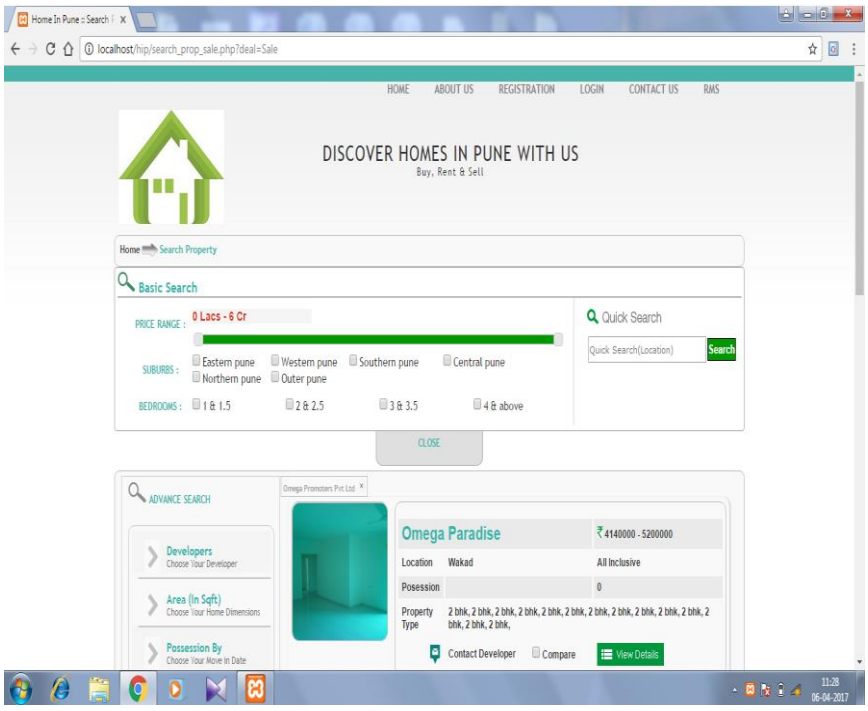
Flooring type added



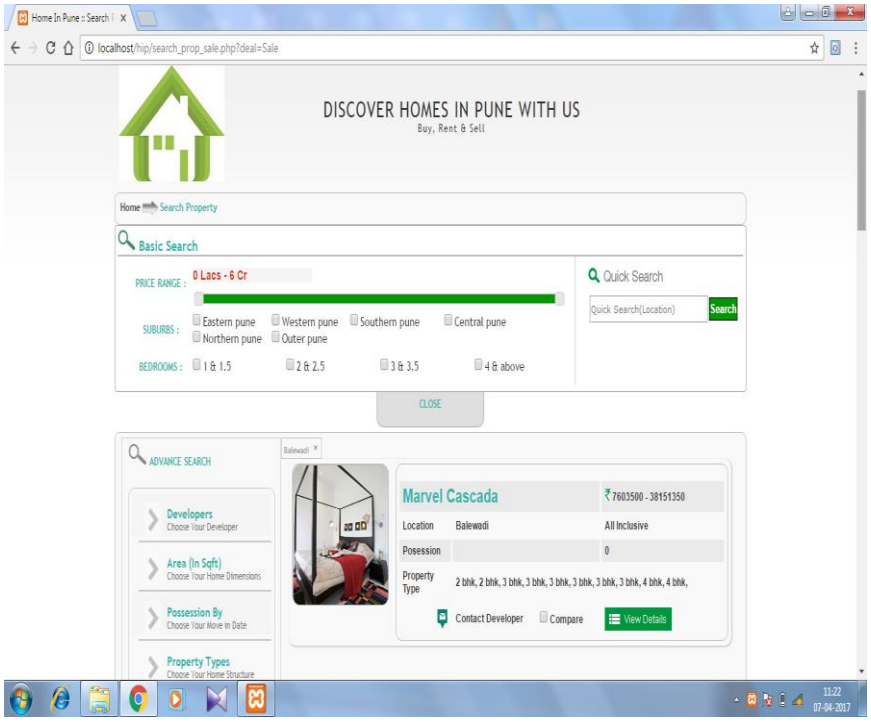
Location added



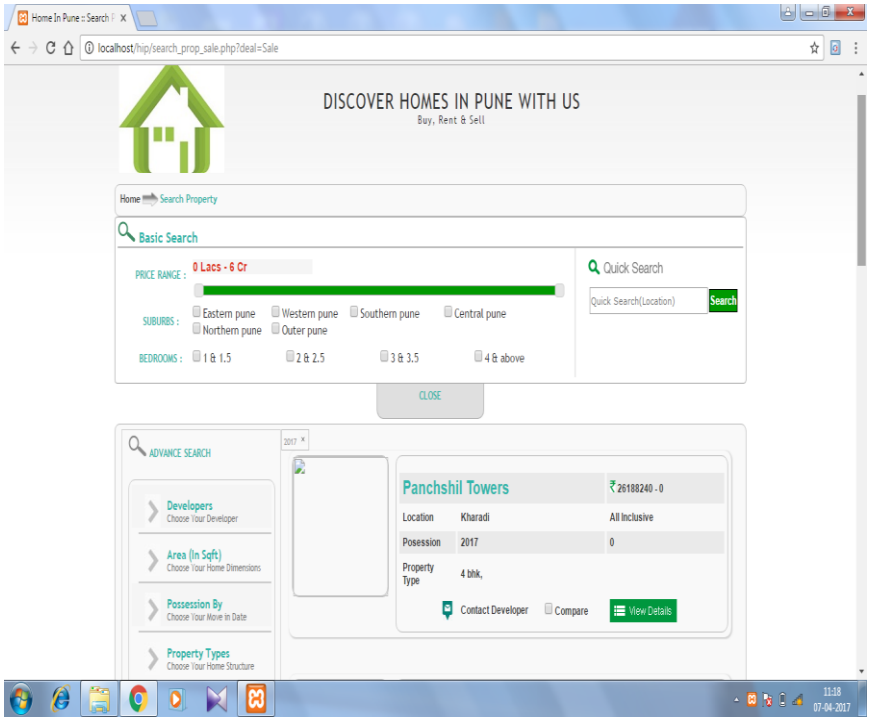
Search results of developer



Search result of locality



Search result of possession



Search result of individual user

Search result of individual property

Multiple user deleted

ANNEXURE 3 : SAMPLE PROGRAM CODE

```
<?php
session_start();
error_reporting(0);
?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta name="keywords" content= “oliverealtors.com,
phonix realtors, Flats in Pune, Property Finders, properties in
pune, Builders in Pune, Apartments in Pune, Bungalows,
Bungalow Plots,Duplex Flats in pune, office space in pune,
Property in Pune, residential or commercial property in Pune,
residential & commercial projects, projects in wakad,
chinchwad, baner, mundhawa & shivaji
nagar,kondwa,vishrantwadi,Hadapser,Banner,wagoli,karadi,u
ndri,wadgao,bavbhan, 2 3 4 BHK Apartments, 2 3 4 BHK
Flats, No brokerage ,Flats for rent, Flats for buy, Flats for
sales,Flats for reses, Search property, real estate, property
search, real estate in pune, real estate, buy, rent, rescale,
owner, indivisual, brocker, agent, builder, search properties, a
leading name in pune properties, real estate developer in
pune“>

<meta name="Description" content=" Property Finders, your
dream Property Finders, search your property in pune, search
property with Property Finders, search property with phonix
realtors, properties in pune, find properties in pune, all pune
properties, i want to find properties in pune, i want to sell
properties in pune, buy sell rent  properties in pune,  my
```

```
dream Property Finders, properties in pune, phonix realtors
pune," charset=UTF-8 >
<title>Olive Realtors.com</title>

<link rel="stylesheet" type="text/css"  href="css/style.css" />
<link rel="stylesheet" type="text/css"
href="css/style_serch.css" />

<!--<link rel="stylesheet" href="css/style_menu.css"
type="text/css"/>-->
<script type="text/javascript"
src="http://www.google.com/jsapi"></script>
<script type="text/javascript" src="js/script.js"></script>
<link rel="stylesheet" href="themes/base/jquery.ui.all.css">
<script src="ui/jquery-1.7.2.js"></script>
<script src="ui/jquery.ui.core.js"></script>
<script src="ui/jquery.ui.widget.js"></script>
<script src="ui/jquery.ui.position.js"></script>
<script src="ui/jquery.ui.autocomplete.js"></script>

<!-- Latest compiled and minified CSS -->
<link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bo
otstrap.min.css">
<!-- jQuery library -->
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquer
y.min.js"></script>
<!-- Latest compiled JavaScript -->
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/boots
trap.min.js"></script>
```

```
<link rel="stylesheet" type="text/css" href="ui/demos.css">
<style>
.ui-autocomplete {
max-height: 100px;
overflow-y: auto;
/* prevent horizontal scrollbar */
overflow-x: hidden;
/* add padding to account for vertical scrollbar */
padding-right: 20px;
}
/* IE 6 doesn't support max-height
* we use height instead, but this forces the menu to always be
this tall
*/
* html .ui-autocomplete {
height: 100px;
}
</style>
<script>
$(function() {
var availableTags = new Array();
<?php
include("conn.php");
$query = "SELECT location FROM location";
$result = mysql_query($query);
$num=mysql_num_rows($result);
if($num!=0)
{
while ($row = mysql_fetch_array($result))
{
$location[] = $row[0];
}
}
```

```
for($i=0;$i<count($location); $i++)
{
echo "availableTags[$i]='".$location[$i]."';\n";
}
?>
$( "#search" ).autocomplete({
source: availableTags
});
});
</script>

<!-- <link rel="stylesheet" type="text/css"
href="popup/master.css">-->
<!-- <script src="popup/jquery-1.2.6.min.js"></script>-->
<script src="popup/contact.js"></script>
<style>
#container {
width:900px;
margin:20px auto;
}

/*contact form*/
#mask {
background-color:#000;
display:none;
height:100%;
left:0;
position:absolute;
top:0;
width:100%;
z-index:9000;
}
```

```
#contact {
background-color:#fff;
display:none;
left:55%;
margin-left:-300px;
position:absolute;
top:90px;
width:400px;
z-index:9999;
border-radius:10px;
-moz-border-radius:10px;
-webkit-border-radius:10px;
padding:20px;
}

#close {
background:url(../images/close.png) no-repeat right;
cursor:pointer;
font-family:arial, sans-serif;
font-size:20px;
font-weight:700;
line-height:24px;
text-decoration:underline;
text-align:right;
padding:5px 30px 5px 5px;
}


.slide-out-div {
padding: 20px;
width: 250px;
background: #f2f2f2;
```

```
border: #29216d 2px solid;
}

</style>

<script
src="http://ajax.googleapis.com/ajax/libs/jquery/1.3/jquery.m
in.js" type="text/javascript"></script>
<script src="js/jquery.tabSlideOut.v1.3.js"></script>

<script>
$(function(){
$('.slide-out-div').tabSlideOut({
tabHandle: '.handle',                    //class of the element
that will be your tab
pathToTabImage: 'images/post_your-req.png',          //path to
the image for the tab (optionaly can be set using css)
imageHeight: '250px',                    //height of tab
image
imageWidth: '40px',                      //width of tab image
tabLocation: 'right',                    //side of screen where
tab lives, top, right, bottom, or left
speed: 300,                              //speed of animation
action: 'click',                         //options: 'click' or 'hover',
action to trigger animation
topPos: '200px',                         //position from the top
fixedPosition: true,                     //options: true makes it
stick(fixed position) on scroll
onLoadSlideOut: true
});
});

// script for pop-up add on index page reload
```

```
/* $(document).ready(function() {
//Put in the DIV id you want to display
launchWindow('#contact');

//if close button is clicked
$('.window #close').click(function () {
$('#mask').hide();
$('.window').hide();
});

//if mask is clicked
$('#mask').click(function () {
$(this).hide();
$('.window').hide();
});

}); */


function launchWindow(id) {

//Get the screen height and width
var maskHeight = $(document).height();
var maskWidth = $(window).width();

//Set heigth and width to mask to fill up the whole screen
$('#mask').css({'width':maskWidth,'height':maskHeight});

//transition effect
$('#mask').fadeIn(1000);
$('#mask').fadeTo("slow",0.8);
```

```
//Get the window height and width
var winH = $(window).height();
var winW = $(window).width();

//Set the popup window to center
//$(id).css('top', winH/2-$(id).height());
//$(id).css('left', winW/2-$(id).width()/100);

//transition effect
$(id).fadeIn(2000);

}

function startTimer()
{
//alert('howdy');
document.getElementById('loading').style.display='block';
IId = setInterval('startTimer();',10000);
}
</script>
<script src="Scripts/AC_RunActiveContent.js"
type="text/javascript"></script>

<meta name="google-site-verification"
content="95OVx_tQTRMM1ZvByXX-
VD8gm9l5Ax1erzWnLpmJtuQ" />
<script type="text/javascript">
var _gaq = _gaq || [];
_gaq.push(['_setAccount', 'UA-28545472-1']);
_gaq.push(['_trackPageview']);


(function() {
```

```
var ga = document.createElement('script'); ga.type =
'text/javascript'; ga.async = true;
ga.src = ('https:' == document.location.protocol ? 'https://ssl' :
'http://www') + '.google-analytics.com/ga.js';
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(ga, s);
})();


</script>


</head>

<body>
```