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Home Away from Home

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ABSTRACT

The implementation of this application is important because people are facing problems to give rent to the tenants and even the tenants are also not able to find the houses which will suit to their needs. If we talk about the owners, they are unable to provide the information about their house like number of rooms, facilities available, in which area it is, what is the rent and all. They are not finding the right people to give the house for rent. Similarly, to find a house for their needs, tenants has to go all around in the area where they want to live. It takes so much time, even if they find also by seeing the features and all, tenants may not satisfy with this. It is a time-wasting process. To overcome all these disadvantages and to provide the services for both owner and tenant, a application should be proposed so that both people requirements will be satisfied. To implement the above idea, an E-commerce web application should be designed so that It brings both the people meet at one place and find the related information to solve their problems. For using this application owner has to register and he can post the information regarding his house details, he can upload his profile, he will be having a facility to upload the files, images, to view the feedback given by the tenant etc. Similarly, renter/tenant can able to browse or search the information, he can find the information about the houses for rent in the area he needs, he can view the profile of the owner, view the services and facilities present in the house, he can view the rent, he can contact the owner through the site, he can pay the amount, he can book the house, he can give the feedback of the house etc. All these services should provide to the tenant. Another user of the application is Site administrator, who must manage the owner accounts, properties of the owner, vacationer accounts and to resolve any sort of issues had in between them. Owner and Tenant can have the enquiry about each other with the administrator. Both side communication will be had with the Admin. All the existing applications are providing the details of sites, houses available for rent, but they are not giving the right information of the owner, facilities available, correct rental, feedback, payment options etc. in the other sites admin is not responsible for any sort of work. Here, he is establishing the relationship with both the persons.

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1 Functional Requirements

These are the requirements which are used to satisfy the needs of the users of the application. This application is used by 3 types of the people who includes

- a. Administrator.
- b. Owner.
- c. Renter/Tenant.

1.1 Admin Functionalities

He is the person who used to manage all the operations of the site. He will be having a Admin Panel which includes several functionalities.

For Administrator, a admin page should be designed where

- ✚ he can able to view the number of registered users for this application.
- ✚ He can view the details categorically like owners and tenants.
- ✚ Admin is having the capability to view the total details of the individual user like his profile, his house details and all.
- ✚ He is there to resolve any problems present in between the owner and tenant.
- ✚ He can communicate with both the owner and the tenant through the admin panel.

1.2 Owner Functionalities

To use the application,

- ✚ Owner has to register by providing the needed details. All these details will be stored in the concerned database. These details will be later used for future references in the application.
- ✚ Owner will be entering the application with the registered user name and password. After entering the application, he will be having different features which he can be using in managing his account.
 - He can upload his profile.
 - He can post the details of the house.
 - He can upload the images of the house.
 - He can upload the details of the house like facilities present in the house, details of near-by locality, features, conditions, rent, contact details etc.
 - Facility is given to edit those details.
 - He can even list his other properties wherever he is having. In a single account he can manage all his property details.
 - He can view the feedback provided by the tenants.
 - He can able to communicate with the tenant either through the mail or through the message.

1.3 Renter Functionalities

To use the application by the renter, He has to associate with the application.

- ✚ Registration: Tenant has to register with the application by providing the details. These details will be stored in the respected database.
- ✚ A facility should be provided to the tenant to search the properties for the rent based on the locality, rent and other things. This will be used as a filter to search the data.
- ✚ After searching the details, if he satisfies with the house, he can book the house or he can communicate with the owner regarding the details.
- ✚ He can have the agreement physically like lease deed or he can have the agreement for number of days or months through this application.
- ✚ He will be having a facility to give the feedback of the owner or house in which he stayed.
- ✚ He can make the payment through the application.

2 Schedule of the Project

S.No	Functionality	Duration	Start date	Status
1	Abstract preparation.	3 days.	25/05/17	Completed
2	Preparation of the Requirements	10 days	29/05/17	completed
3	Designing the project	8 days	08/06/17	Not yet started
4	Coding the project	20 days	16/06/17	Not yet started
5	Testing the project	5 days	05/07/17	Not yet started
6	Documenting the project	5 days.	10/07/17	Not yet started
	Final Release		16/07/17	

Table 2.1: Project Schedule

2.1 Requirements

2.1.1 Hardware Requirements

- RAM : 2GB
- Hard disk : 100GB

2.1.2 Software Requirements

- Operating system : Windows XP/7.
- Coding Language : C#.net
- Tool : Visual Studio 2015

3 Technical Description

3.1 Project/Application Architecture

The given application is developed with the client server architecture. This architecture contains the following components. These components include the client who is known as user, server where the application is hosted on the server and the third component is the database where the data is stored in an organized way. Here the user will interact with the application with the help of the browser. User will open the browser and connects to the application through the network. This can be done by using the URL which is used to identified the application. Server will provide the service to the client by opening the application in the client system.

Here we will be using MySQL as a database where all the details of tenants and the owners will be stored. For every transaction, based on the need application will be interacted with the database to store and retrieve the information.

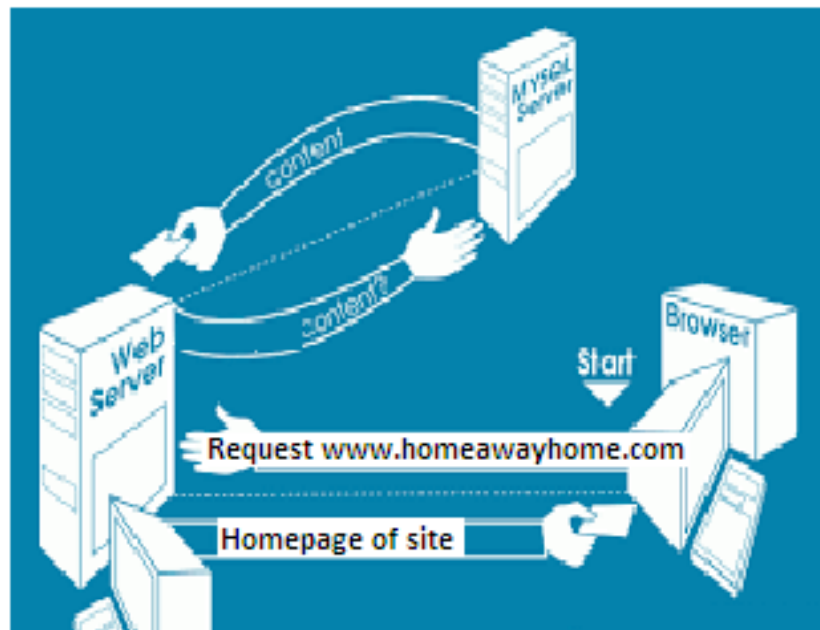


Figure 3.1: Architecture of Home Away from Home application.

3.2 Project/Application Information flows

Flow of the information in the application will be different for the users. This application is used by the different users like User, Owner and the Admin.

- User: He is one type of the user where the user has to register with the application for searching for the house or properties for rent. He will search the information according to the location and based on the rent amount also.
- He can view all the details of the properties which he need and he can even communicate with the owner. Owner and the user can communicate by using the application or by using the phone. If the property is needed by the user then he will be making the agreement. All the details of the user and the owner details will present in the application
- Owner: Owner will also register with the application and he will post all the details of the properties which he wants to give for rent. All these details will be visible to the users. Owner and tenant will have the communication by using this application.

- d. Admin: He is the other user who will manage all the user and owner accounts. He is having all the rights to delete and to add the users to the application. Admin will have all the information of the tenant and the owner.

3.3 Interactions with other Applications

This application is individual application where it does not have any interdependencies with any other applications.

Capabilities:

The main capabilities of the application is used to provide the information to the users about the properties so that they can have the needed resources on rent. For users, they can reduce their search time, no need to go here and there to search the properties or houses.

From anywhere users can access this application and they can complete their task. in their free time, they can perform all such operations.

If we talk about the owner, giving rent to the users is getting difficult, they can post the information in this application and made visible to all the users. This information can be viewed by all the users throughout the globe. This makes the owner very much flexible to give the properties on rent.

All the care will be had by the admin. He will be between the user and the owner, all the formalities between the user and the owner will be under the control of the admin.



Figure 4.1: Risk management and Assessment

For implementation of every application, there will be different risks. All these risks should be identified and analyzed. After identifying the risks, it is the responsibility of the admin to reduce the risks. User and the owner should not face the risks, if they feel that it is risk to use this application then they will not use this application. To avoid all these information, there will be some rules and regulations which are proposed by the admin. All these rules should be accepted by both the user and the owner. After accepting the rules and regulations they will be registering with the application. Owner and the tenant should follow all these rules or else these people information will be kept in the black list, so that tenant will not get any property for rent and the owner will not get any tenant.

5 Design of the application

Information flow in the application is represented with the following design notations. These design notations are from the Unified modeling language and the diagrams include Use case diagram, sequence diagrams, activity diagrams etc. These diagrams will eliminate all the confusion which is had in the flow of information in the application.

5.1 Use case

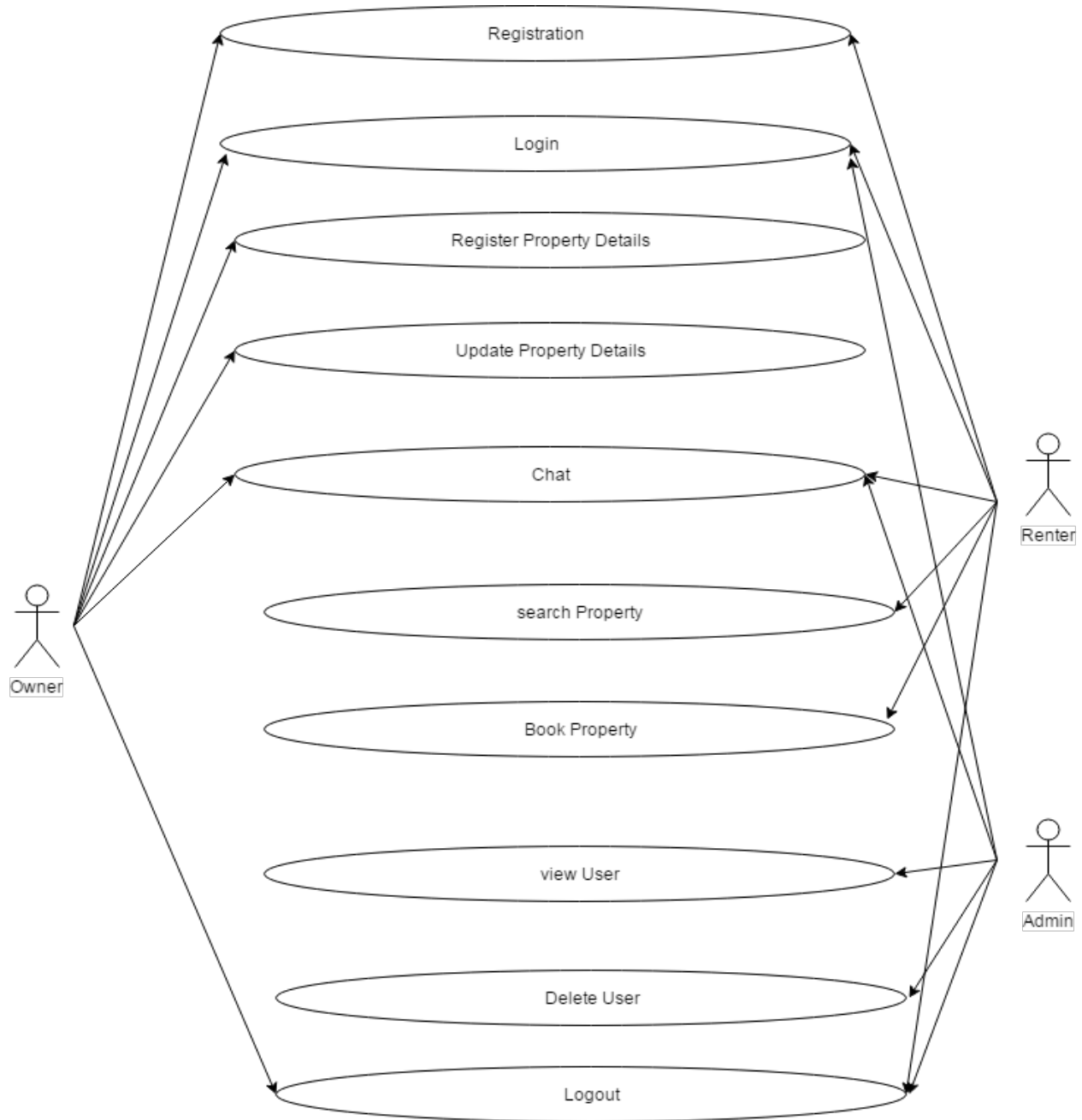


Figure 5.1: Case Analysis

5.2 Sequence(Admin)

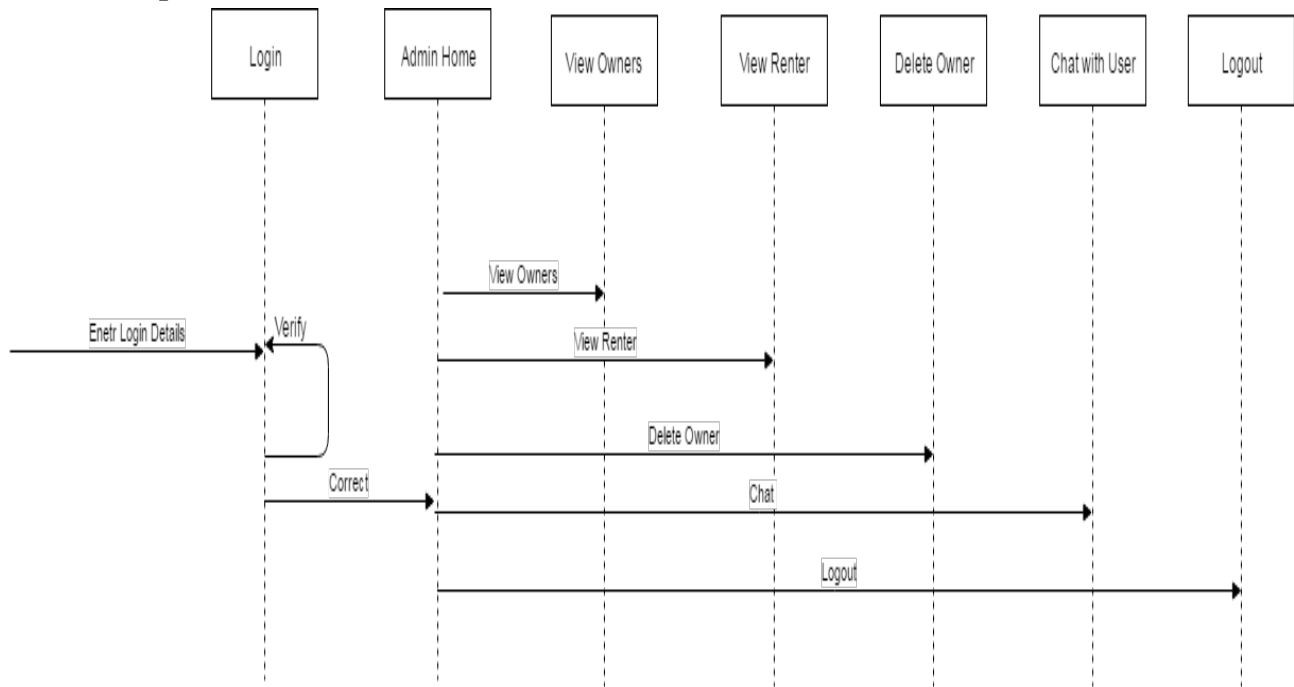


Figure 5.2: Admin Functionality

5.3 Sequence(Renter)

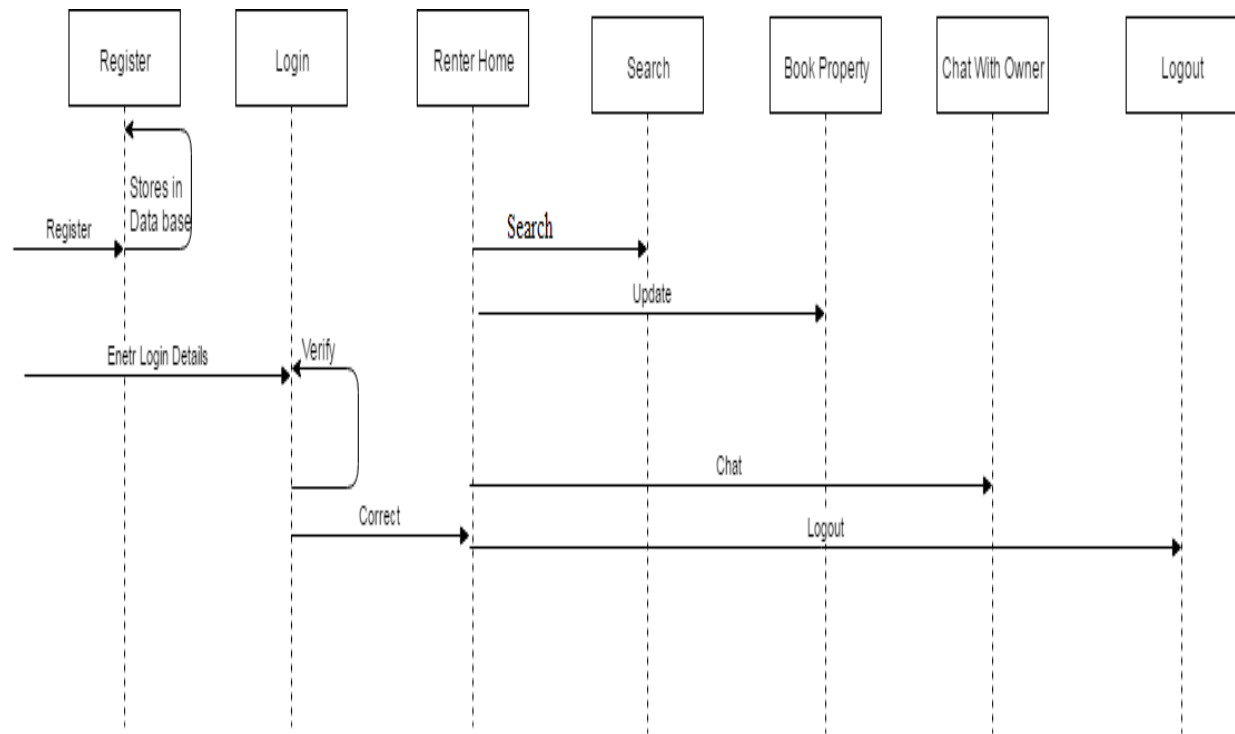


Figure 5.3: Renter Functionality

5.4 Sequence(Owner)

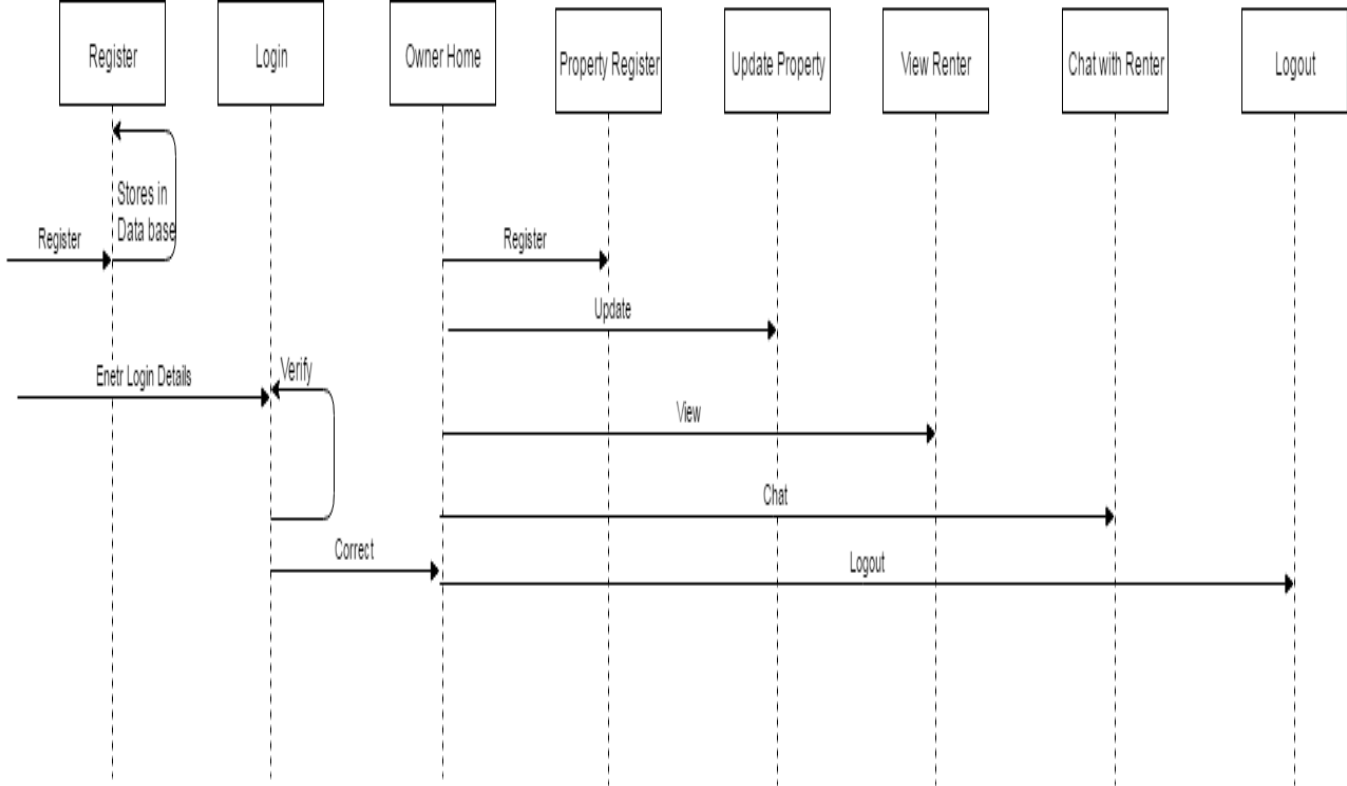


Figure 5.4: Owner Functionality

5.5 Flow(Admin)

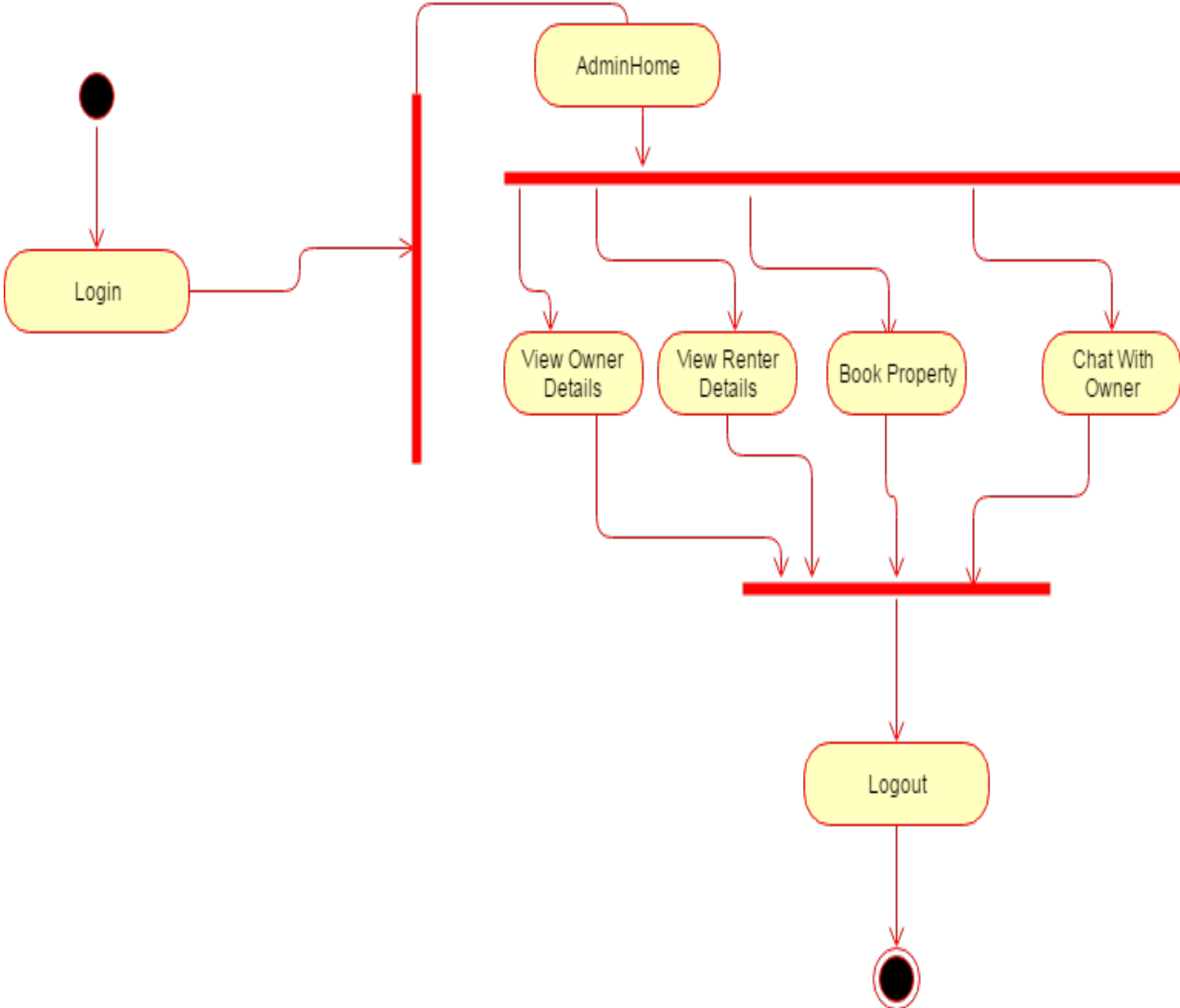


Figure 5.5: Admin Flow Diagram

5.6 Flow(Owner)

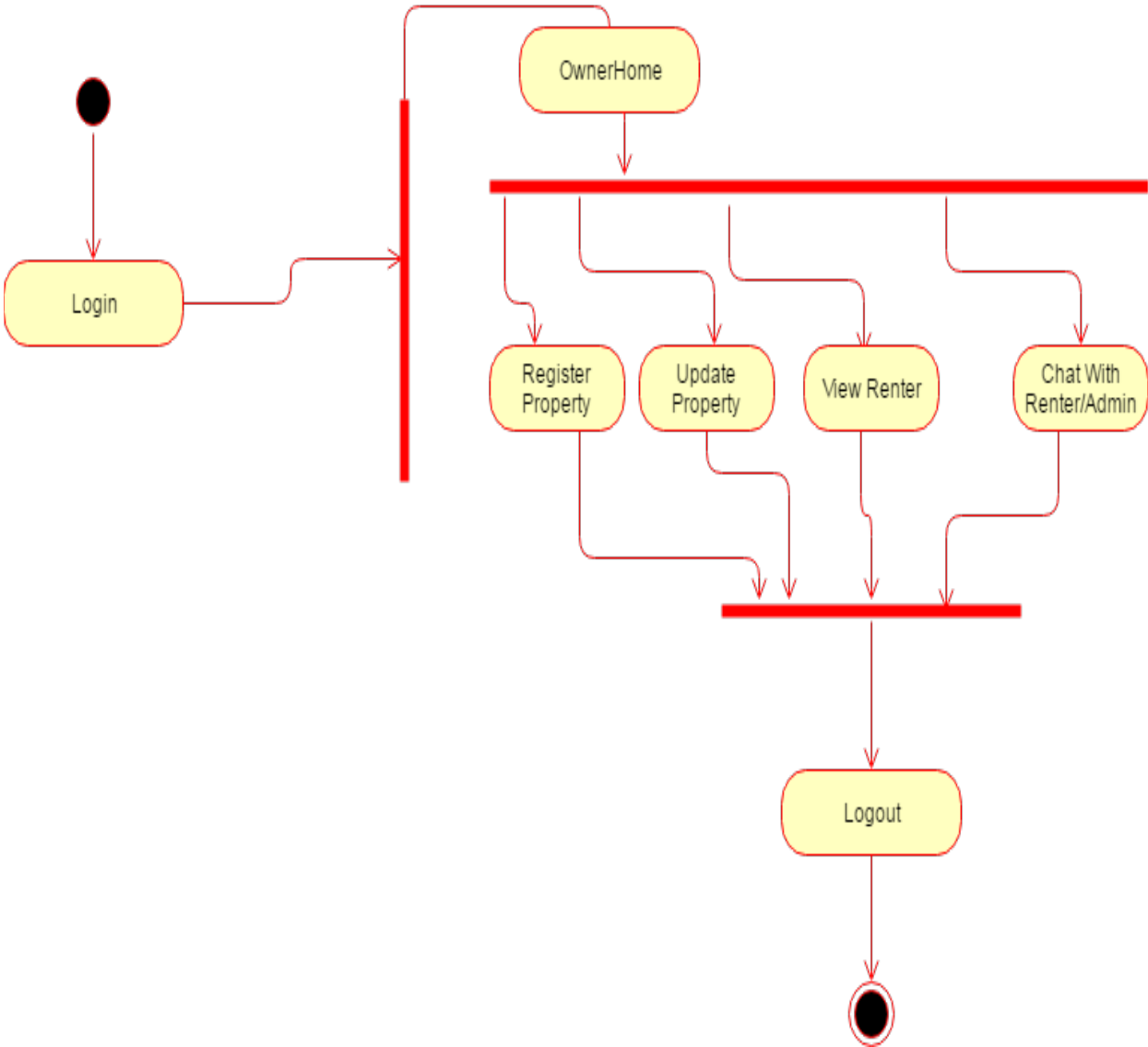


Figure 5.5: Owner Flow Diagram

5.7 Flow(Renter):

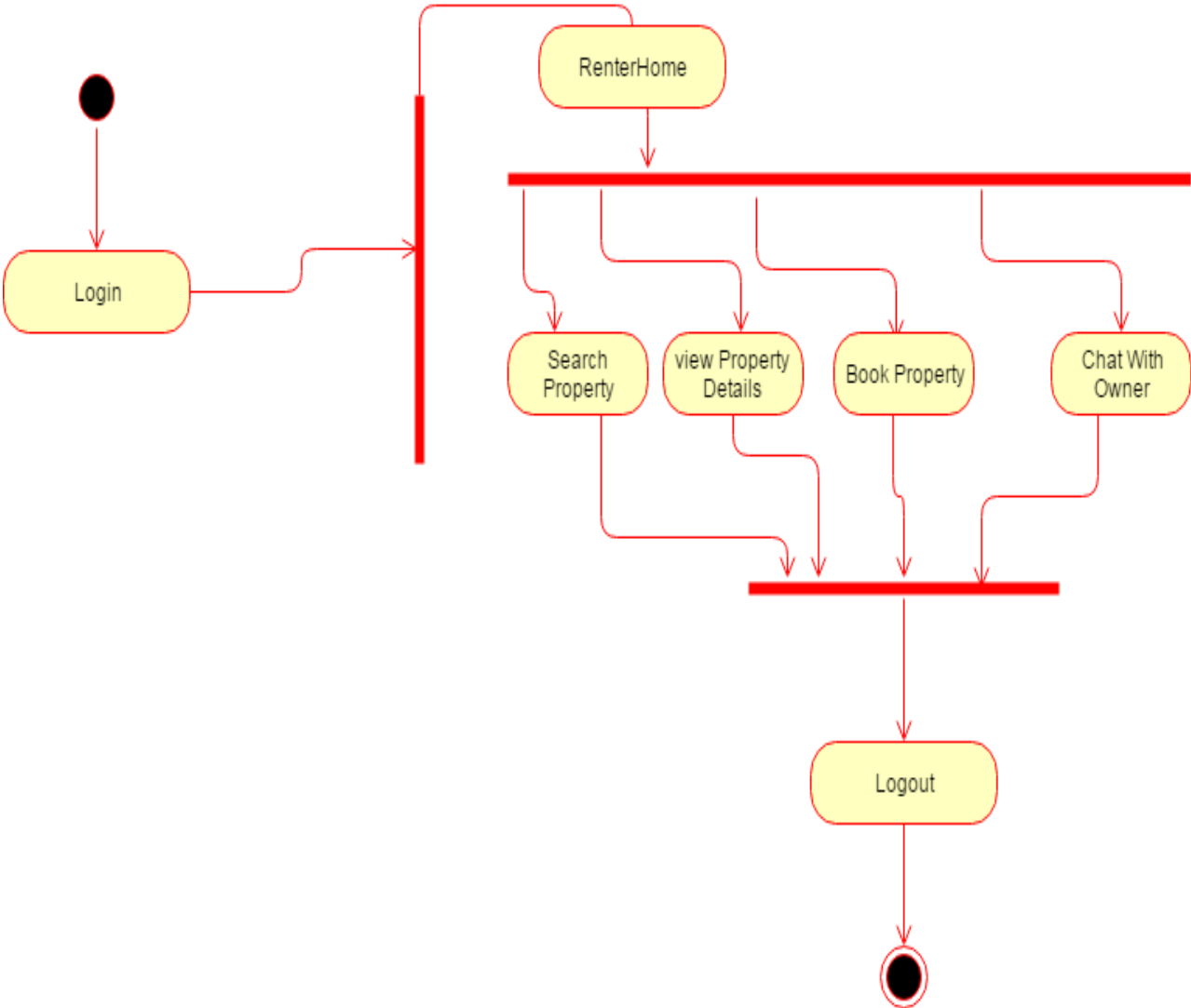


Figure 5.6: Renter Flow Diagram

6 Home Away Home Project Home Page

As per the requirements given, there is a list of functionalities which this project should include but not limited to the listed below:

The following page shows the project home page with the search options of the property.

6.1 Home page

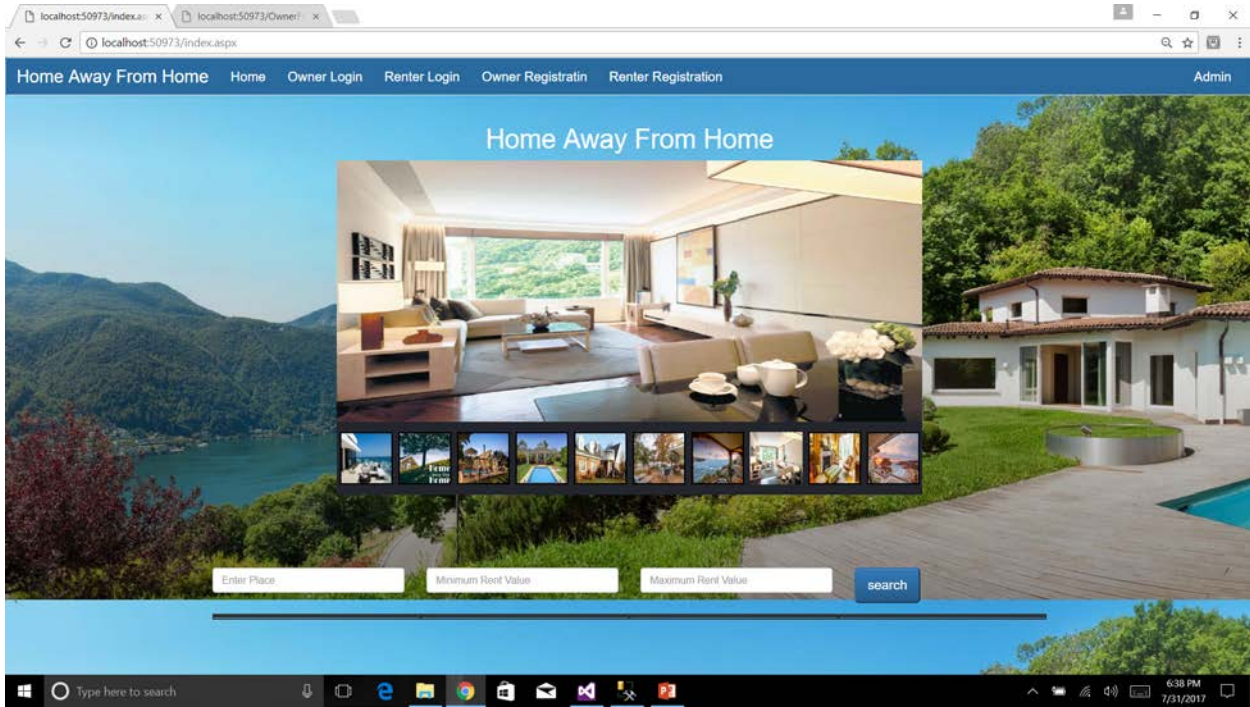


Figure 6.1: Home Page

6.2 Owner Registration page

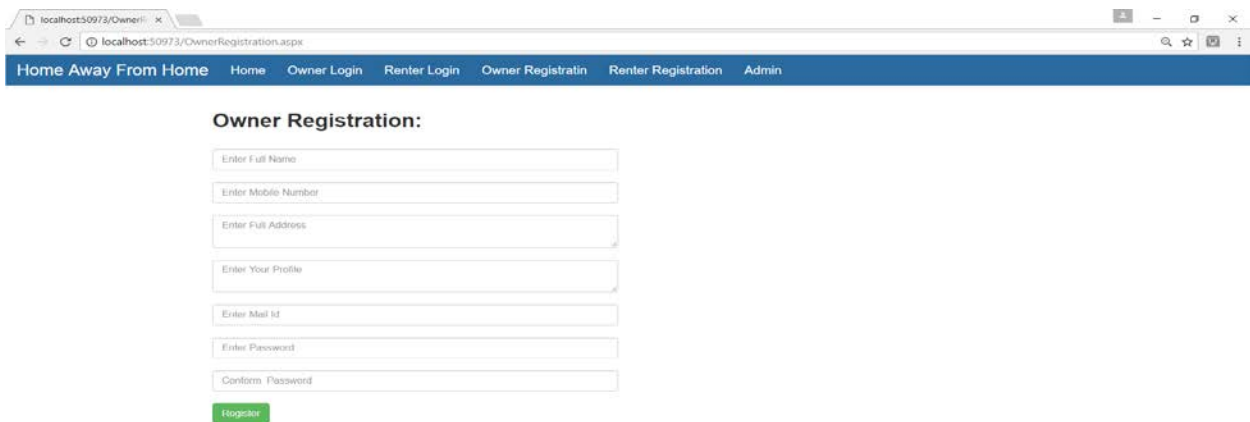


Figure 6.2: Owner Registration Page

6.3 Renter Registration page

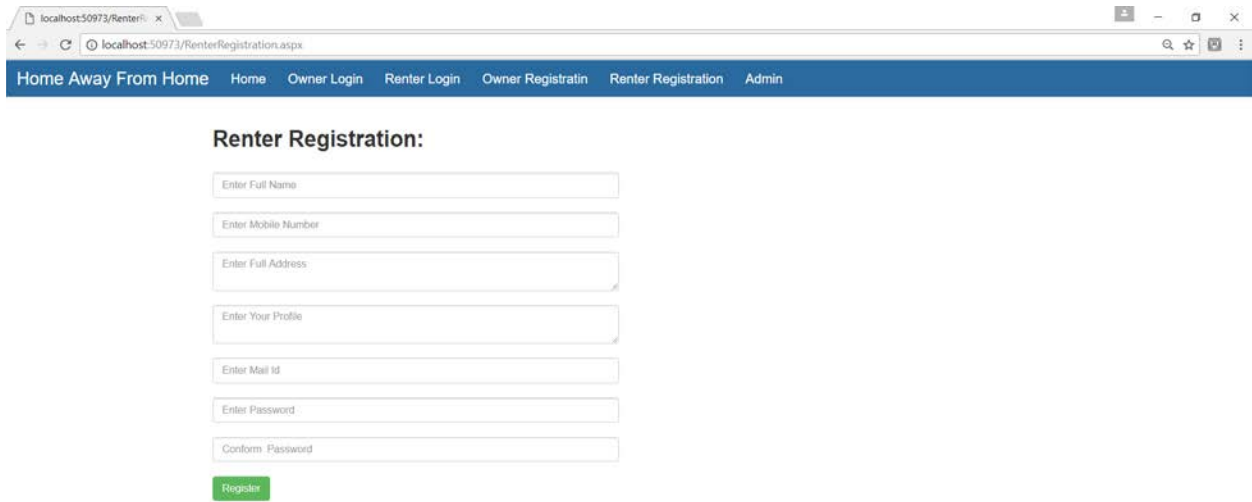


Figure 6.3: Renter Registration Page

6.4 Admin Page

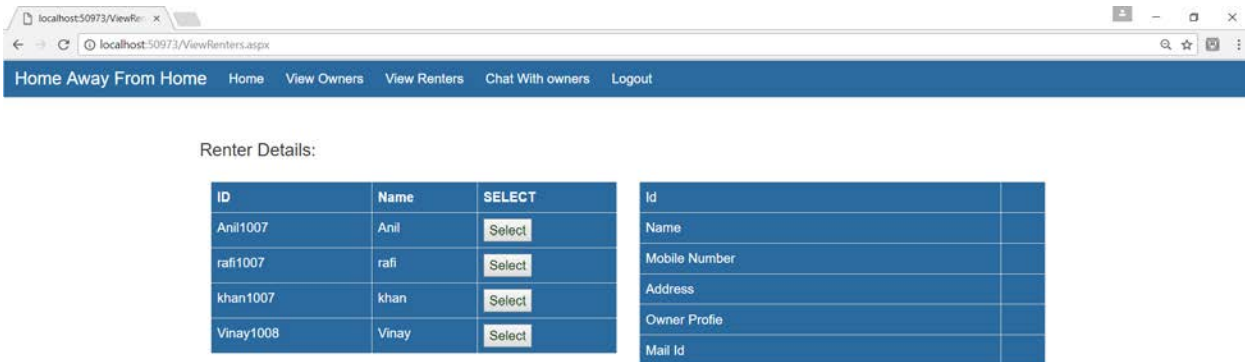
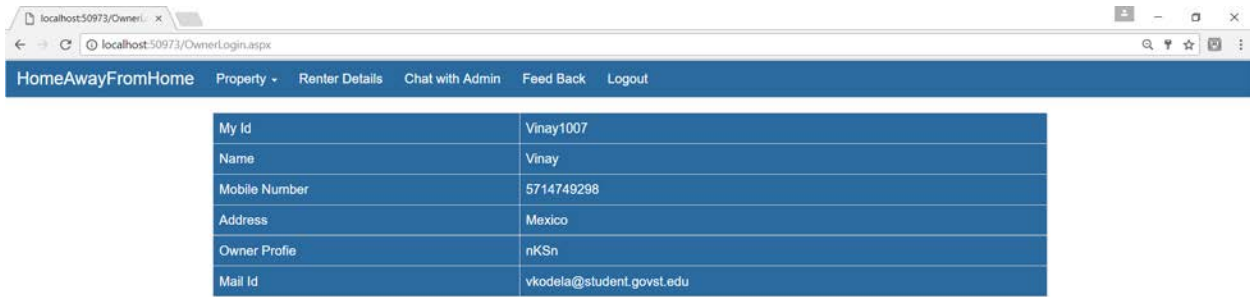


Figure 6.4: Admin Page

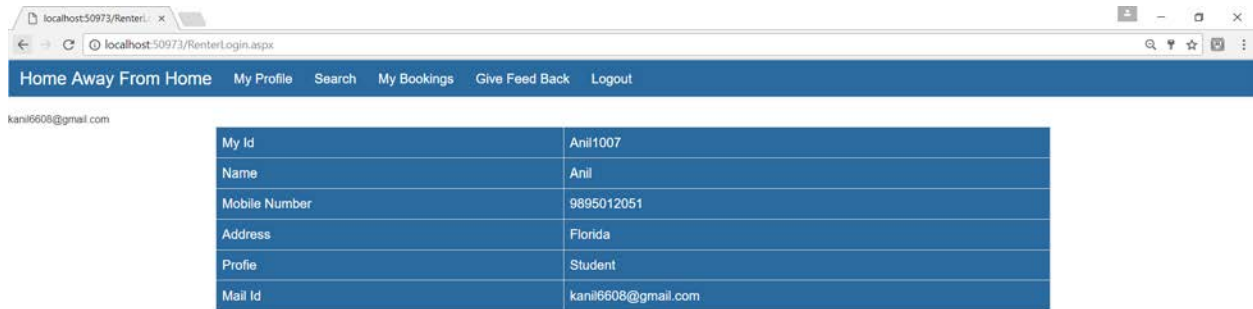
6.5 Owner Page



My Id	Vinay1007
Name	Vinay
Mobile Number	5714749298
Address	Mexico
Owner Profile	nKSn
Mail Id	vkodela@student.govst.edu

Figure 6.5: Owner Page

6.6 Renter Page



kani6608@gmail.com

My Id	Anil1007
Name	Anil
Mobile Number	9895012051
Address	Florida
Profile	Student
Mail Id	kani6608@gmail.com

Figure 6.6: Renter Page

7 *Conclusion*

The application is important because people are facing problems to give rent to the tenants and even the tenants are also not able to find the houses which will suit to their needs. If we talk about the owners, they are unable to provide the information about their house like number of rooms, facilities available, in which area it is, what is the rent and all. They are not finding the right people to give the house for rent. At present, with these advanced technologies online room booking and sales the property in online has become every easy. By these applications we can easily book the rooms and sales the properties. These projects provide huge features and here admin can view the owner properties and we can view the rental details. Even owner can login with his login details can view his properties. So, finally I concluded that these application very advanced and smart way to book the room and they can easily sales their properties.

8 *References*

1. Welling, L., And Thomson, L. PHP and MySQL Web Development (March 21, 2009). Retrieved February 12, 2017, <https://www.pearsonhighered.com/product/Welling-PHP-and-My-SQL-Web-Development-4th-Edition/9780672329166.html>
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