

THE SUPERIOR COLLEGE LAHORE



Faculty of Computer Science & IT

Final Year Project PROJECT REPORT

PayingGuest.com

Project ID: **FYP-BCS-F18-031**

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Project Report

PayingGuest.com

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HEAD OF THE DEPARTMENT

Comments: _____

Date: _____

Signature: _____

Dedication

This project is dedicated to our Parents who have never failed to give us financial and moral support, forgiving all our needs during the time we developed our system and for teaching us that even the largest task can be accomplished if it is done one step at a time. This project is dedicated to our Adviser Mrs. Irum Feroze, without her continued support and counsel we could not have completed this process. Lastly, this project is dedicated to Superior University where we have taken support and environment to complete this project.

Acknowledgements

We are highly indebted to our project guide Miss Irum Feroz from Superior group of colleges for her guidance, inspiration, constructive suggestion and encouragement that helped us throughout the evolution of this project. She has taken innumerable efforts to go through the project and make necessary corrections as and when needed.

Executive Summary

We are developing a web-based application with some astounding highlights. The primary thought is that it is a Website named as Payingguest.com. Payingguest.com venture helps the clients in finding house rooms in different cities when they want to travel or make tour plans. The fundamental reason for this venture is to help the client to effectively and to provide feasibility as it is the world of technology. A majority of unpleasant issues faced by landlords and tenants seem to grow due to lack of communication. Fortunately, building a positive relationship doesn't take much effort and it all starts with one basic idea "communication". Rental Property Management Software provides the solution by offering the ability to share issues between tenants and landlords which leads to rapid issue resolution and fewer misunderstanding. The goal of the software is to create a better relationship between tenants and landlord. The Rental Property Management Software is designed to support both tenants and landlords by enabling them to document and communicate their issues in regards. It helps the tenant with making Payments and it also helps the Landlord to keep track of issues posted by tenants. Effectively resolving the apartment issues is important to the tenant's long-term future and the Rental Property Management Software(payingguest.com) will be an important tool for creating rental housing stability by helping tenants speak with greater credibility through initiating and documenting communications and building productive relationships with landlords. In this manner a person can rent a room as per night bases according to his feasibility.

Table of Contents

Dedication.....	iv
Acknowledgements	v
Executive Summary	vi
Table of Contents	vii
List of Figures.....	x
Chapter 1	1
Introduction.....	1
1.1. Background	2
1.2. Motivations and Challenges.....	3
1.3. Goals and Objectives.....	3
1.4. Literature Review/Existing Solutions	4
References	4
1.5. Gap Analysis.....	5
1.6. Proposed Solution	6
1.7. Project Plan	6
1.7.1. Work Breakdown Structure	7
1.7.2. Roles & Responsibility Matrix	7
1.7.3. Gantt Chart.....	8
1.8. Report Outline.....	9
Chapter 2	10
Software Requirement Specifications	10
2.1. Introduction	11
2.1.1. Purpose	11
2.1.2. Document Conventions.....	11
2.1.3. Intended Audience and Reading Suggestions	12
2.1.4. Product Scope	12
References	13
2.2. Overall Description.....	13
2.2.1. Product Perspective	13
2.2.2. Product Functions	13
2.2.3. User Classes and Characteristics	19
2.2.4. Operating Environment	19
2.2.5. Design and Implementation Constraints	20
2.2.6. User Documentation	20
2.2.7. Assumptions and Dependencies	20
2.3. External Interface Requirements	21
2.3.1. User Interfaces	21
2.3.2. Hardware Interfaces	21
2.3.3. Software Interfaces.....	22
2.3.4. Communications Interfaces	22
2.4. System Features.....	22
Functional Requirement No 1.....	23
2.4.1. User Registration.....	23
2.4.1.1. Functional Requirements	23
Functional Requirement No 2.....	24
2.4.2. User Login Function	24
2.4.2.1. Functional Requirements	24
Functional Requirement No 3.....	24
2.4.3. Add Posts Function	24
2.4.3.1. Functional Requirements	25

Functional Requirement No 4	25
2.4.4. View Details Function.....	25
2.4.4.1. Functional Requirements	25
Functional Requirement No 5	26
2.4.5. Make Reservation Function	26
2.4.5.1. Functional Requirements	26
Functional Requirement No 6	27
2.4.6. Cancel Reservation Function.....	27
2.4.6.1. Functional Requirements	27
Functional Requirement No 7.....	28
2.4.7. Cost Calculation Function	28
2.4.7.1. Functional Requirements	28
Functional Requirement No 8.....	28
2.4.8. Make Payment Function	28
2.4.8.1. Functional Requirements	29
Functional Requirement No 9.....	29
2.4.9. Logout Function	29
2.4.9.1. Functional Requirements	30
2.5. Other Nonfunctional Requirements	30
2.5.1. Performance Requirements	30
2.5.2. Safety Requirements.....	30
2.5.3. Security Requirements.....	30
2.5.4. Software Quality Attributes	31
2.5.5. Business Rules	31
2.6. Other Requirements	31
Chapter 3	32
Use Case Analysis.....	32
3.1. Use Case Model.....	33
3.2. Use Case Descriptions	34
Chapter 4	38
System Design.....	38
4.1. Architecture Diagram	40
4.2. Domain Model	41
4.3. Entity Relationship Diagram with data dictionary	42
4.4. Class Diagram	46
4.5. Sequence / Collaboration Diagram	47
4.6. Operation contracts	50
4.7. Activity Diagram.....	53
4.8. State Transition Diagram	55
4.9. Component Diagram.....	56
4.10. Deployment Diagram	57
Chapter 5	58
Implementation	58
5.1. Important Flow Control/Pseudo codes	60
5.2. Components, Libraries, Web Services and stubs	61
5.3. Deployment Environment.....	61
5.4. Tools and Techniques.....	62
5.5. Best Practices / Coding Standards.....	62
5.6. Version Control	62
Chapter 6	63
Testing and Evaluation	63
6.1. Use Case Testing	64
6.2. Function testing	77

6.3.	Data flow testing	78
6.4.	Unit testing.....	82
6.5.	Integration testing	83
6.6.	Data flow testing.....	83
6.7.	Screenshots of System	84
	86
Chapter 7	90
Summary, Conclusion and Future Enhancements	90
7.1.	Project Summary.....	91
7.2.	Achievements and Improvements	91
7.3.	Lessons Learnt.....	91
7.4.	Future Enhancements/Recommendations	92
Reference and Bibliography	93

List of Figures

1.1	Work Breakdown Structure	7
1.2	Gantt Chart	8
2.1	Product Functions	14
2.2	Communication Interfaces	22
2.3	Functional Requirement User Registration Use case	23
2.4	Functional Requirement User Login Use case	24
2.5	Functional Requirement Add Post Use case	25
2.6	Functional Requirement View Details Use case	26
2.7	Functional Requirement Make Reservation Use case	27
2.8	Functional Requirement Cost Calculation Use case	28
2.10	Use case Model	33
3.1	System Design	39
4.2	Architecture Diagram	40
4.3	Domain Model	41
4.4	Entity Relationship Diagram with Data Dictionary	42
4.5	Class Diagram	46
4.6	Sequence Diagram	47
4.7	Activity Diagram	53
4.8	State Transition Diagram	55
4.9	Component Diagram	56
4.11	Deployment Diagram	57
4.12	Important Flow Control/Pseudo Codes	60
5.1	Deployment Environment	61
5.2	Data Flow Testing	78

Chapter 1

Introduction

Chapter 1: Introduction

The current paradigm shift in technological field, there is an urgent need to embrace and appreciate the power of technology. Rental house, rooms and apartment management has become important factor in modern society hence there is a need to have a rental house management system. Housing has a central importance to quality of life with considerable economic, social, cultural and personal significance. That's why we are introducing the House Rental Management System.

1.1. Background

A home is a dwelling-place used as a permanent or semi-permanent residence for an individual, family, household or several families in a tribe. Rent a room in your home that is always available for short-term occupancy by paying clients. This room is used solely as a hotel or similar establishment and is not a dwelling unit. Home is one of the basic needs for human being. From the four need of human being as its need people who have no home may live through paying rent for other people who have more houses. But here what we have to understand is that the relation between the person who rented house and the renter. There are different renters who have different behavior that show different characteristics on rented people. Some renters may have a positive relationship other may not. Here those renters who have bad behavior may show unpleasant or bad behavior on rented peoples. But here what we have thought is that how those rented people for renter that have bad behavior we live together. Renting of home may have advantage as well as disadvantage. Advantages of rented person from that particular house are renter may work other kind of work with the time of constructing that house, he/she may not repair if that house deprecates etc. on the other hand the rented may get difficulties or disadvantage from that particular house are payment of period calls may enter into bankruptcy, the renter may ask him to leave his house with an expected time. He/she may not have full freedom to wonder in the compound of that particular house, even he/she may not have right to enter after passing of the entrances time. The rented person may consume match time to get with the renter; he /she pays commission for the intermediate. Protects human being from the harmful things. Home is a necessity, and for some people support is a necessity too. Social homing is rented homing provided for people who cannot afford to buy, or to pay private rented sector rents. Our system considered this problem and solve in the available time.

1.2. Motivations and Challenges

The current paradigm shift in technological field, there is an urgent need to embrace and appreciate the power of technology. Payne Guest sector remains vigilant to face the challenges of change by employing a new strategy that facilitates easy management of Rental Rooms in houses. Hence there is need to develop a rental house management system that can simplify work for the rental managers so that all their work can be efficient and effective. Housing has a central importance to quality of life with considerable economic, social, cultural and personal significance. Though a country's national prosperity is usually measured in economic terms, increasing wealth is of diminished value unless all can share its benefits and if the growing wealth is not used to redress growing social deficiencies, one of which is housing. Housing plays a huge role in revitalizing economic growth in any country, with shelter being among key indicators of development. The universal declaration of human rights gives one of the basic human rights as the right to a decent standard of living, central to which is the access to adequate housing. Housing plays a huge role in revitalizing economic growth in any country, with shelter being among key indicators of development. The universal declaration of human rights gives one of the basic human rights as the right to a decent standard of living, central to which is the access to adequate housing. Housing as a basic human right demands that urban dwellers should have access to a decent housing, defined as one that provides a foundation for rather than being a barrier to good physical and mental health, personal development and fulfillment of life objectives. The focus of this research project is basically managing housing for low income, medium and high incomes households or what is commonly known as affordable housing. "Affordable" is a term used to describe individual's capability to pay for certain products or services because their income is enough to do so. Although the term "affordable housing" is often applied to rental housing; that is within the financial means of those in the lower income ranges of a geographical area, the concept is applicable to both middle- and high-income individuals. Challenges are that awareness of the system will play a vital role and the insurance of the person who will rent a house. Developing rental houses comes with many advantages especially to the Landlords who are able to increase their profits through rent paid by the tenants. Increased number of tenants and Landlords makes management difficult especially for the landlords who are losing huge sum of money through tenants who evade rent.

1.3. Goals and Objectives

The following are the project objectives:

- To develop a rental house management system that allows the user to view host data as well as houses record.
- To develop a system that allows the users to add, edit, search and delete data from the database.
- To study and analyze the requirement specifications of the rental house management system. To produce the Software Requirement Specification of the system.
- To produce the Software Design Document of the system.
- The time of the user will be saved, and he will have a complete knowledge about what he will be going to rent.
- The assurance is certified.

1.4. Literature Review/Existing Solutions

There are many systems similar to this for example Zameen.com and Lamudi.pk but this system is based on different idea and trend which is rental rooms for Paying Guests. This review addresses a number of research questions: a review of the literature on definitional issues on housing affordability; an assessment of the nature and extent of the housing affordability problem; a review of policies and programs to address the housing affordability problem; and possible options which could be seen further.

This literature review comprises four parts. Part 1 provides background to the issues surrounding a common definition of affordable housing; part 2 looks into the nature and extent of the housing affordability problem, including the role of the land use planning system; part 3 provides a review of overseas policies, programs and tenure models encompassing rental and a variety of ownership forms and an overview of policy and programs addressing housing affordability in Pakistan.

In Pakistan there is no separate proper platform which is made for Paying guests. So, we are providing separate platform for this problem.

References

1. Zameen.com. (2006). [online] Available at: <https://www.zameen.com> [Accessed Jan. 2006].
2. Lamudi.pk. (2013)- *Prop.pk*. [online] Available at: <https://www.lamudi.pk> [Accessed Jan. 2013]
3. Airbnb. (2008). [online] Available at: <https://www.airbnb.com> [Accessed 2008].
4. Realproperty.pk. *Pakistan's Real Estate Portal* [online] Available at: <http://www.realproperty.pk>

1.5. Gap Analysis

Target Item	Current State	Future State	Improvement Steps
Software Requirement Specifications	Requirements of User Interface are Complete. Requirements Gathering for system.	Completing The Requirement Specification to be completed as soon as possible to start implementation.	We will make some changes after testing the software. Change only require when it needed.
Use Case Analysis	Working on Use case model is in progress.	Complete Use case model and Fully Dressed Use case to clearly define the path for design and implementation	If cases not go as our software requirements so we will improve or make some changes.
System Design	Architecture diagram and use cases diagram done others are still in progress.	And it will be completed soon further work then start the implementation on it.	System design improve when user use the software and then when it needs some changes, we will make more better
Implementation	Working on front end initial pages and front end almost completed	software will be complete.	Improve design or functionality with the time.
Documentation and Project Testing	Just gathering requirements through documentation and make documentation yet	When documentation will be completed implementation will be start.	Fixing the bugs and improve the project as per requirements.

Table 1.1

1.6. Proposed Solution

The following features are being provided through the system:

- This project integrates all Operation processes in the computer to synergies the important resources of Material and Money. The department people can gather the needed information at their desk without any manual burdens.
- This project reduces manual burdens and automates the functions of various departments.
- In manual process, to decide the Room booking details, vacating details have to be verified each time. But with this project these processes are automated and no manual checking is required. This project reports can be automatically generated. The processes of creating reports are manually very tedious which are made very easy and automatically through this project.
- The reports produced helps in making management decision easily.
- The project eliminates many difficulties saving a lot of time and energy, which could be used for some other constructive purpose towards the organization's success.

ADVANTAGES:

1. Less effort
2. Quick reference
3. Future enhancement

1.7. Project Plan

It is a one-year project plan and we will follow the agile methodology of software engineering.

1.7.1. Work Breakdown Structure

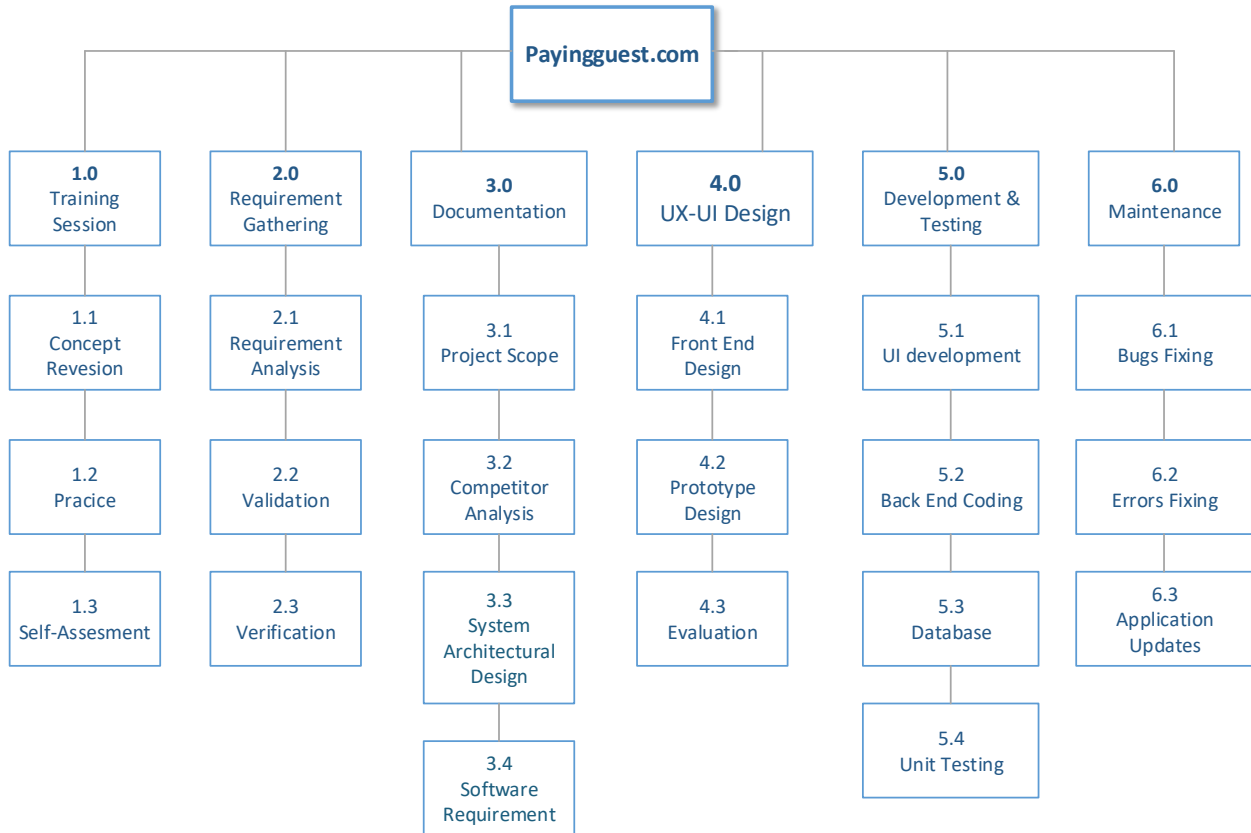


Figure 1.1

1.7.2. Roles & Responsibility Matrix

WBS #	WBS Deliverable	Activity #	Activity to Complete the Deliverable	Duration (# of Days)	Responsible Team Member(s) & Role(s)
1	Training Session	PA-001	Training session	22	Hafiz M. Omer and M. Ammar
2	Requirement Gathering	PA-002	Project requirement gathering	15	M. Ammar
3	Documentation	PA-003	Project documentation	45	Hafiz M. Omer and M. Ammar
4	Designing	PA-004	Project interface design	30	Hafiz M. Omer
5	Database	PA-005	Project database design	30	Hafiz M. Omer and M. Ammar

6	Coding	PA-006	System coding	30	Hafiz M. Omer and M. Ammar
7	Bug Fixing	PA-007	System bugs remove	30	Hafiz M. Omer and M. Ammar
8	Final Testing	PA-008	Complete Testing	10	Hafiz M. Omer and M. Ammar
9	Maintenance	PA-009	System maintenance	12	Hafiz M. Omer and M. Ammar

1.7.3. Gantt Chart

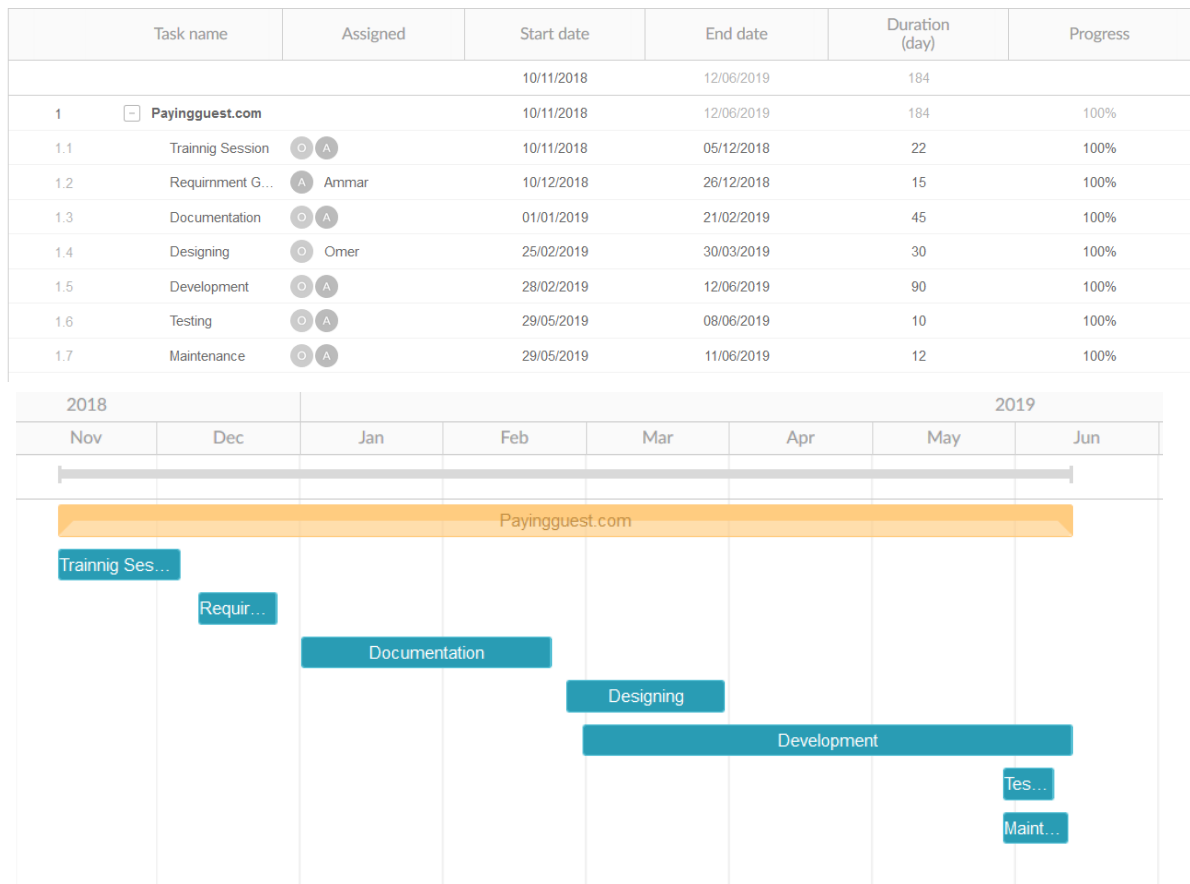


Figure 1.2

1.8. Report Outline

This report defines the phases of requirement gathering, documentation, development environment, E-drawing environment, implementation and expected deliverables as well as presentation layer, business logic layer, data management layer, physical layer and clearly define the role and responsibilities of each person on each phase for the successful development of project.

Chapter 1-- Introductions

Provide an introduction and discuss brief descriptions of background, motivation and challenges. Goals and objectives, literature review and existing solution, gap analysis proposed solution, project plan, WBS, roles and responsibilities matrix and provide a project Gantt chart.

Chapter 2—Software Requirement and Specifications

Provide an introduction and discuss the brief description of Software Requirement Specifications, product perspectives and functions also discuss Operating Environment, Design and Implementation Constraints, User Documentation, Assumptions and Dependencies, User, Hardware, Software, Communications and Other Nonfunctional, Performance, Safety, Security, Software Quality Attributes and Business Rules of the project.

Chapter 3—Use Case Analysis

Provide a visual representation of system use cases their description tables and detailed analysis.

Chapter 4—System Design

Provide UML based visual representation of Architecture Diagram, Domain Model, and Entity Relationship Diagram with the data dictionary, Class Diagram, Sequence / Collaboration, Diagram, Operation contracts, Activity Diagram, State Transition Diagram, Component Diagram and system Deployment Diagram for a better understanding of system architecture.

Chapter 5--Implementation

Provide knowledge of Important Flow Control/Pseudo codes, Components, Libraries, Web Services and stubs, Deployment Environment, Tools and Techniques, Best Practices / Coding Standards, Version Control for the implementation of the project.

Chapter 6—Testing and Evaluation

Provide testing of all functions of the system by different methods of test and make evaluation on that basis.eg User case testing, Unit testing, Integration testing.

Chapter 7—Summary Conclusion and Future Enhancement

Provide overall summary of the project and describe its achievements and future enhancement.

Chapter 2

Software Requirement Specifications

Chapter 2: Software Requirement Specifications

2.1. Introduction

2.1.1. Purpose

We are going to provide an online platform which will help you to rent your house, room and apartment. We are mainly focusing on Rooms on rents in this management system because we see this gap in market. People who came from different cities for short time on work purpose or vacations they must book hotel rooms which is much expensive. In European Countries rental room is on trend people prefer to rent a furnished room for short time like a day or week. In Pakistan people didn't have this awareness so by introducing this platform we will spread awareness of this trend which will solve many problems and will provide business to locals.

- Any tourist can use it for managing their short or long trip.
- Fast processing and immediate results with high security.
- Minimizing human effort and cost-efficient database.
- Reusability of this application is also possible.
- High competition in market.
- Improper marketing effort

2.1.2. Document Conventions

This document use following Conventions	Description
Main Section Titles	Font: Calibri Face: Bold Size: 12 Line Spacing 1.5
Sub Section Titles	Font: Calibri Face: Bold Size: 12
Other Text Explanations	Font: Calibri Face: Normal Size: 12
DB	Database
ISP	Internet Service Provider
UML	Unified Model Language

HTTPS	Hyper Text Transfer Protocol Secured
Html	Hyper text mark up language
SSL	Secure Socket Link
API	Application Programming Interface
TLS	Transport Layer Security
SSL	Secured Socket Layer
PhP	Pre-processor hypertext
MY-SQL	Microsoft Structured QueryLanguage
SRS	Software Requirement and Specifications
DOB	Date of Birth
KB, GB	Kilobyte, Gigabyte

2.1.3. Intended Audience and Reading Suggestions

The intended audience of this document would be owner of the house who is host and the person who will take room for rent which is guest and project team with the objective to refer and analyze the information. The SRS document can be used in any case regarding the requirements of the project and the solutions that have been taken. The document would final provide a clear idea about the system that is building. Brief outline of the document is,

1. Overall Description
2. System Features
3. External Interface Requirements
4. Non-Functional Requirements

2.1.4. Product Scope

This system will help to manage deal between house owner and paying guest and run the online house/room rental business systematically. In this system, we will provide a web-based application that can be used by the house owner and paying guest to negotiate and make deals. User can also give feedback through this app. So that admin can evaluate the whole system.

House Owner Side:

- User can visit application from Google and can search the market value of its property.
- User can post add for renting or sailing its property.
- Update and Delete the add
- At the end, the user gives reviews and ratings of the paying guest.

Paying guest Side:

- User visit application from Google and can search the market rate of the accommodation.
- User can book the room by online payment.
- At the end, the user gives reviews and ratings of the paying guest.

References

1. Zameen.com. (2006). [online] Available at: <https://www.zameen.com> [Accessed Jan. 2006].
2. Lamudi.pk. (2013)- *Prop.pk*. [online] Available at: <https://www.lamudi.pk> [Accessed Jan. 2013]
3. Airbnb. (2008). [online] Available at: <https://www.airbnb.com> [Accessed 2008].
4. Realproperty.pk. *Pakistan's Real Estate Portal* [online] Available at: <http://www.realproperty.pk>

2.2. Overall Description

2.2.1. Product Perspective

The Paying Guest.com is a new self-contained software product which will be produced by the project team in order to overcome the problems that have occurred due to the current manual system. The newly introduced system will provide an easy access to the system and it will contain user friendly functions with attractive interfaces. The system will give better options for the problem of handling large scale of physical file system, for the errors occurring in calculations and all the other required tasks that has been specified by the client. The final outcome of this project will increase the efficiency of almost all the tasks done at the Rental Houses in a much convenient manner.

2.2.2. Product Functions

Web Panel

- Registration as User or Host
- Login
- Search Room Posts
- Add Posts
- View Posts
- Add to Bookings Function
- Make Booking
- Cancel Booking
- View Reservation
- Confirm Reservation

- Make Payment
- Checkout
- User Profile

Admin Panel

- Manage User Host (Add, Edit, Update, Delete)
- Manage User Guest (Add, Edit, Update, Delete)
- Manage Admin (Add, Edit, Update, Delete)
- Manage Post Details (Add, Edit, Update, Delete)
- Manage Room Category (Add, Edit, Update, Delete)
- Manage Reservations (Edit, Update, Delete)
- View Feedbacks

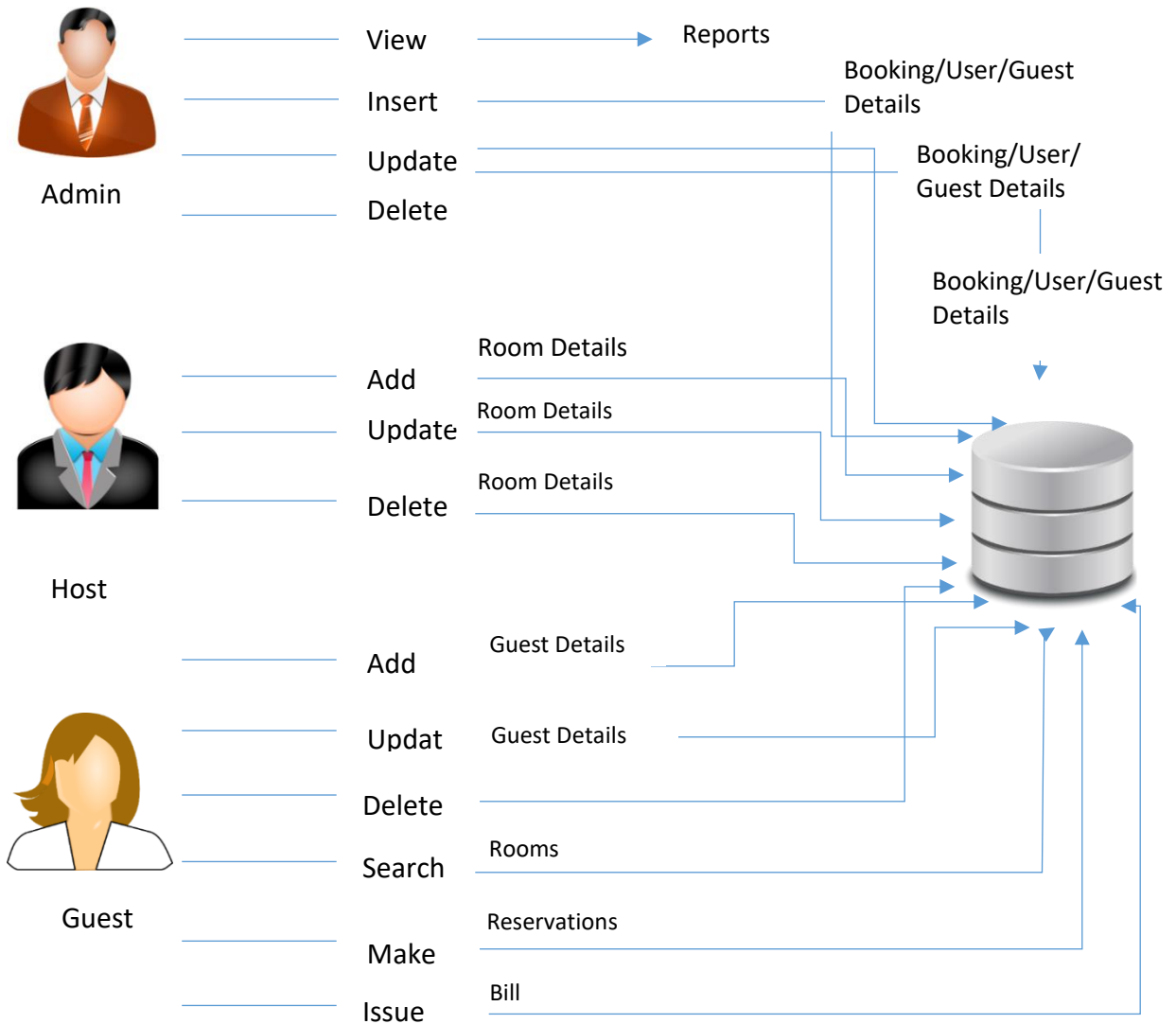


Figure 2.1

Function 1	Registration as User Guest and Host
Input	Username, User email, User Image, Contact, Address, User Type, Password, Re-Password
Output	Database Record, Database successfully saved record.
Processing	Validate the given details and record the information in to the database.

Function 2	Login System
Input	User email, Password
Output	Match with Database Record, Login to the System
Processing	Validate the given details and record the information in to the database.

Function 3	Search Rooms
Input	Search Room with Name, City and Price
Output	Display a message with available room details
Processing	Validate the given details and check for the available rooms in a given time period and return it's availability.

Function 4	Add Posts
Input	Post Title, Description, Image 1 , Image 2, Image 3, Rent, Category, Location, Contact, City, Beds, Baths, Kitchen, Garage
Output	Database Record, Database successfully saved record.
Processing	Validate the given details and check for the available rooms in a given time period and return its availability.

Function 5	View Posts
Input	View Posts and Details
Output	Display details of the posts with available room details

Processing	Validate the given details and check for the available rooms in a given time period and return its availability.
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Function 6	Add to Bookings Function
Input	Like add to cart function user can add the post in list by adding check-in and check-out dates
Output	Display details of the posts in reservation page
Processing	Validate the given details and check for the available rooms in a given time period and return its availability.

Function 7	Make Reservations
Input	Check-in date, Check-out date
Output	Display details of the posts in reservation page
Processing	Validate the given details and record the information in to the database.

Function 8	Cancel Reservation
Input	User can cancel the reservation which he added in list
Output	Reservation will be canceled
Processing	Validate the given details and record the information in to the database.

Function 9	Confirm Reservation
Input	Post Image, Post Description, Rent, Check-in date, Check-out date, Subtotal, Total Days.
Output	Confirm the reservation
Processing	Validate the given details and total cost is calculated according to the services gain by the guest.

Function 10	Make Payment
Input	Card Number, Expiry Date, CVC Code, Card Owner Name
Output	Database Record, Database successfully save payment details
Processing	Validate the given details of payment and save the details in the database.

Function 11	Checkout
Input	Sandbox Checkout testing for developer.
Output	Open the Sandbox Checkout account and confirm payment form testing account.
Processing	Validate the given details on Sandbox account form and confirm payment then make checkout.

Function 12	Make Payment
Input	Card Number, Expiry Date, CVC Code, Card Owner Name
Output	Database Record, Database successfully save payment details
Processing	Validate the given details of payment and save the details in the database.

Function 13	User Profile
Input	After Login user can check user profile and can edit and update it.
Output	Database Record, Database profile data successfully updated.
Processing	Validate the given details and record the information in to the database.

Function 14	Manage User Hosts
Input	Add, Edit, Update, Delete the User Host profile
Output	Display the result of the actions
Processing	Validate the given details and perform functions according to actions.

Function 15	Manage Users Guest.
Input	Add, Edit, Update, Delete the User Guests profile
Output	Display the result of the actions
Processing	Validate the given details and perform functions according to actions.

Function 16	Manage User Admin
Input	Add, Edit, Update, Delete the User Admin profile
Output	Display the result of the actions
Processing	Validate the given details and perform functions according to actions.

Function 17	Manage Post Details
Input	Add, Edit, Update, Delete the post details in database
Output	Display the result of the actions
Processing	Validate the given details and perform functions according to actions.

Function 18	Manage Room Category
Input	Add, Edit, Update, Delete the room category
Output	Display the result of the actions
Processing	Validate the given details and perform functions according to actions.

Function 19	Manage Reservations
Input	Add, Edit, Update, Delete the reservations
Output	Display the result of the actions
Processing	Validate the given details and perform functions according to actions.

Function 20	View Feedback
Input	User add the feedback through contact feedback form.
Output	Display the feedbacks or queries in admin panel
Processing	Validate the given details and perform functions according to actions.

2.2.3. User Classes and Characteristics

There are three user levels in Paying Guest.com

- I. Admin
- II. Host
- III. Guest

Admin:

Admin has the privilege of Monitoring and authorization of all the tasks handle by the system. He can access every function performed by the system. Admin of the website as well as the system can access to the administration panel which is consider the core of the system. As the main authorized person of the website admin gets the ability to manage the other users including their user levels and privileges. Taking backups of the system and restoring system can also be done by the Admin. Meanwhile he will be able to take all the kinds of reports available in the system. As the admin of the system and the website he has the power to set room rates as well. Admin has the sole right of deleting a member from the system database.

Host:

Host is responsible for posting adds and rent his house. Host can post adds and ask for payments. Host can add or delete his adds.

Guest:

Guest is the one who will see adds and rent a house or room for accommodation and can give suggestions and reviews about the host and the system.

2.2.4. Operating Environment

Hardware and software requirements

Hardware:

1. **Operating System** Supports all known operating systems, such as Windows, Linux

2. **Computer** 512MB+ RAM, monitor with minimum resolution of 1024x768, keyboard, and mouse.
3. **Hard Drive** should be in NTFS file-system formatted with minimum 10 GB of free space
4. **A Laser printer** will need to be used to print these reports and notes.

Software:

1. Software is designed to run on any platform above Microsoft Windows 7 (32bit) and above.
2. Microsoft .NET Frameworks 4.0 or above.
3. Microsoft SQL Server Management Studio Express 2010 or above.

2.2.5. Design and Implementation Constraints

- Client detail save into the database.
- Localhost PhpMyAdmin Server for developing will be utilized as SQL motor and database.
- The Online Web Application System is running 24 hours per day.
- Users may access from any PC that has Internet perusing abilities and an Internet association.
- Users must have their right usernames and passwords to go into their online records and do activities

2.2.6. User Documentation

User must know detail of our product, how to use it or how to deploy it. User use internet to order our product or need friendly environment.

2.2.7. Assumptions and Dependencies

- The item needs the accompanying outsider items.
- Localhost PhpMyAdmin Server to store the database.
- PHP (Laravel Framework), Bootstrap and HTML, CSS to build up the Product.

2.3. External Interface Requirements

2.3.1. User Interfaces

Client of the site will be given the Graphical UI; there is no order line interface for any elements of the item.

Screen Name	Description
Login	In that case the client isn't enlisted yet; he can enter the points of interest and enlist. Which requests that the client write his username and secret key. If the client entered his username or Password Incorrect then error message occurs.
Search	The registered user or paying guest.com can enter the kind of Product he is looking for and after that he can scan for the required Product by entering the name of the item. User can also search/view and add rooms by their accordance.
Add/delete posts	User can add or delete posts too.
Payment Method	User selects the payment method and proceeds the order
Administer seats	Available.
Administer user	Create, Modify, Delete and Update password
Report	Select, view, add and delete reports

2.3.2. Hardware Interfaces

- Equipment prerequisites for Insurance on web will be same for both the gatherings which are takes after:
- Processor
- Ram: - 128 MB or above.
- HD: - 20 GB or above.
- Just the prescribed setup (fundamental necessities of a PC framework) no other particular equipment is required to run the product.

2.3.3. Software Interfaces

All the databases for the Payingguest.com system will be configured using access 2018 – 2027. These databases include Products and user information. These can be modified by the end user. The payingguest.com database will include the user info and Products info. The user or products or order detail information database will contain all the detail of the user or products detail or order detail such as first name surname ID number and phone number, P_id, P_name, p_category, order_id, check-in_date, check-in_date, reservation_id.

2.3.4. Communications Interfaces

The two gatherings ought to be associated through either by LAN or WAN for the correspondence. Sender Communication channels Receiver.



2.4. System Features

Website features

- **Register:** User can register into the System
- **Login:** User can login into the System
- **Add Posts:** After login user can add Posts like rooms and homes.
- **View Post Detail:** user can see rooms pictures and can also check the detail of the rooms and room owner.
- **Make Reservations:** User can make reservations of rooms and homes on systems.
- **Cancel Reservations:** User can cancel reservations of rooms and homes on systems which they make before.
- **Cost Calculation:** The system calculates total cost of the room placed in the Wishlist and provides payment module.
- **Confirm Reservations:** User can confirm reservations of rooms and homes on systems.
- **Select payment Method:** User can select the payment method (By debit card or by credit card)
- **Checkout:** After confirm reservation user will checkout.
- **Log out:** After making reservation user can logout.

Website

Software Requirements:

- Windows 10/8/7
- Xampp Localhost PhpMyAdmin Sql
- Sublime/Adobe Dream Viewer Editor

Functional Requirement No 1.

2.4.1. User Registration

“User can register into the System”

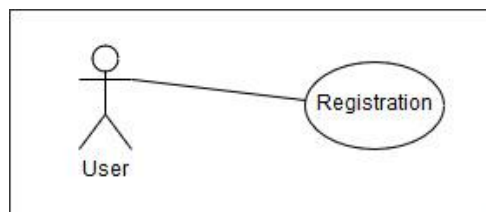
Identifiers	FR-001
Title	Allows Register access online
Requirement	User name, Password, Contact, Email
Rational	Register to the system and provide security to personal information.
Restriction and risk	Correct data must be entered during registration, otherwise user don't get registered.
Dependency	Pc, Connection with server
Priority	Safety, timing

2.4.1.1. Functional Requirements

REQ-SF1-1: User must enter website address proper to visit website

REQ-SF1-2: User must fill the registration form to get registered. So, user can perform further tasks on application.

REQ-SF1-3: User must click the submit button after filling the form to get registered.



User Registration UseCase

Figure 2.2

Functional Requirement No 2.

2.4.2. User Login Function

“User can login into the System”

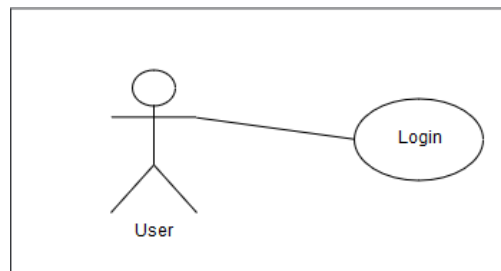
Identifiers	FR-002
Title	Allows login access online
Requirement	Email, Password
Rational	Login to the system and provide security to personal information.
Restriction and risk	User name and password must be correct otherwise user don't register.
Dependency	Pc, Connection with server
Priority	Safety, timing

2.4.2.1. Functional Requirements

REQ-SF2-1: User must be registered into the system.

REQ-SF2-2: User must enter email correctly to login the system.

REQ-SF2-3: User must enter password correctly to login the system.



User Login Usecase

Figure 2.3

Functional Requirement No 3.

2.4.3. Add Posts Function

“User can add post in the System”

Identifiers	FR-003
Title	Add Posts
Requirement	Post title, Post description, Pictures and Price
Rational	A user must add post in system
Restriction and risk	User must be login
Dependency	Valid information
Priority	Add post in user account

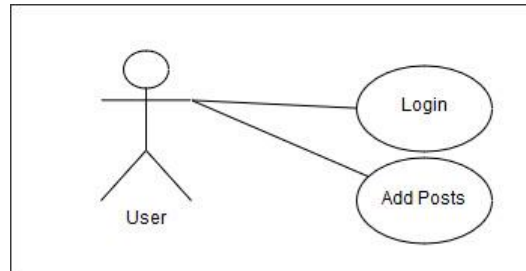
2.4.3.1. Functional Requirements

REQ-SF2-1: User must be login to the system.

REQ-SF2-2: User must enter valid information of add in the system.

REQ-SF2-3: User must enter all relevant details of rooms or house to add post.

REQ-SF2-4: User must submit the add to post it.



Add Post Usecase

Figure 2.4

Functional Requirement No 4.

2.4.4. View Details Function

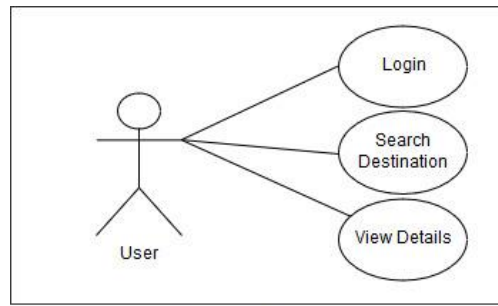
“User can view details of posted adds and host reviews in the System”

Identifiers	FR-004
Title	Allows user to view detail
Requirement	User login and then view detail of room/house
Rational	Login to the system and view detail
Restriction and risk	User must login to check the detail otherwise detail don't show.
Dependency	Pc, Connection with server
Priority	Safety, timing

2.4.4.1. Functional Requirements

REQ-SF2-1: User must be login to the system.

REQ-SF2-2: User must enter correct destination on searching of add in the system.



View details Usecase

Figure 2.5**Functional Requirement No 5.****2.4.5. Make Reservation Function**

“After watching the detail of rooms or homes user can make reservation of selected room in the System”

Identifiers	FR-005
Title	Allows user to make reservation
Requirement	User login and then view detail of room/house and enter check in, check out dates.
Rational	Login to the system and make reservation
Restriction and risk	User must login to check the detail otherwise user can't make reservations.
Dependency	Pc, Connection with server
Priority	Safety, timing

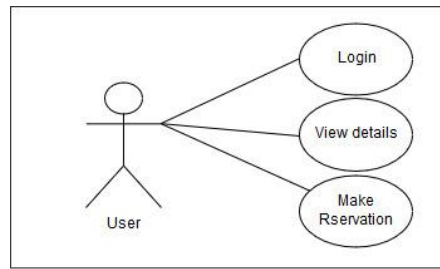
2.4.5.1. Functional Requirements

REQ-SF2-1: User must be login to the system.

REQ-SF2-2: User must view details of posted add in the system.

REQ-SF2-3: User must enter check in date for making reservations.

REQ-SF2-4: User must enter check out date for making reservations.



Make Reservation Usecase

Figure 2.6**Functional Requirement No 6.****2.4.6. Cancel Reservation Function**

“After making reservation of rooms or homes user can cancel the reservation of selected room in the System”

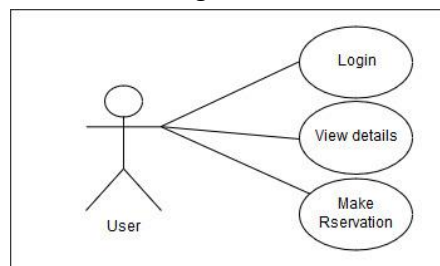
Identifiers	FR-006
Title	Allows user to cancel reservation
Requirement	User login and make the reservation.
Rational	Login to the system and cancel reservation
Restriction and risk	User must login to check the detail otherwise user can't cancel reservations.
Dependency	Pc, Connection with server
Priority	Safety, timing

2.4.6.1. Functional Requirements

REQ-SF2-1: User must be login to the system.

REQ-SF2-2: User must make reservation in the system.

REQ-SF2-3: User cancel the reservations which he makes before.

Figure 2.7

Make Reservation Usecase

Functional Requirement No 7.

2.4.7. Cost Calculation Function

“The system calculates total cost of the room or house and provides payment module.”

Identifiers	FR-007
Title	Allow user to select room, make reservation and cost calculation module shows.
Requirement	Types of room, post no, total cost
Rational	Allow user to make reservation and cost module occur in front of the user’s screen.
Restriction and risk	None
Dependency	None
Priority	None

2.4.7.1. Functional Requirements

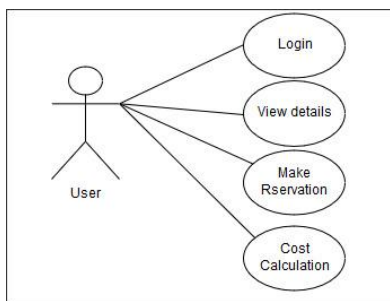
REQ-SF2-1: User must be login to the system.

REQ-SF2-2: User must select the room for making reservations.

REQ-SF2-3: User must view details of posted add in the system.

REQ-SF2-4: User must enter check in, check out date for making reservations.

REQ-SF2-5: User view the cost calculation module in screen.



Cost Calculation Usecase

Figure 2.8

Functional Requirement No 8.

2.4.8. Make Payment Function

“User can select the payment method (By debit card or by credit card)”

Identifiers	FR-008
Title	Allow user to select payment method after making reservations, methods like credit card or debit card.
Requirement	Types of card, Card no ,Card password, Card holder name, Card holder Mobile no

Rational	Allow user to select payment method.
Restriction and risk	None
Dependency	Valid card no or PIN Code
Priority	Account balance update

2.4.8.1. Functional Requirements

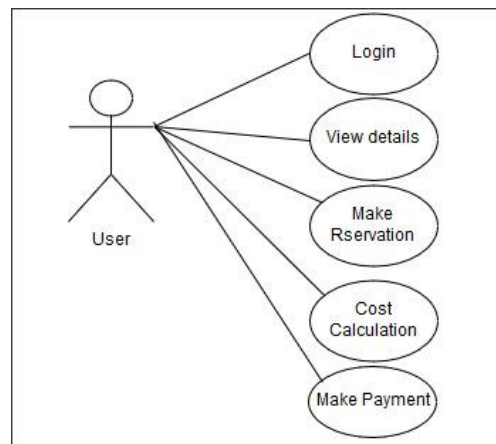
REQ-SF2-1: User must be login to the system.

REQ-SF2-2: User must make the reservations.

REQ-SF2-3: User must enter the type of card for making payment.

REQ-SF2-4: User must enter the card number for making payment.

REQ-SF2-5: User must enter the card holder name for making payment.



Make Payment Usecase

Figure 2.9

Functional Requirement No 9.

2.4.9. Logout Function

“After making reservations the user can logout”

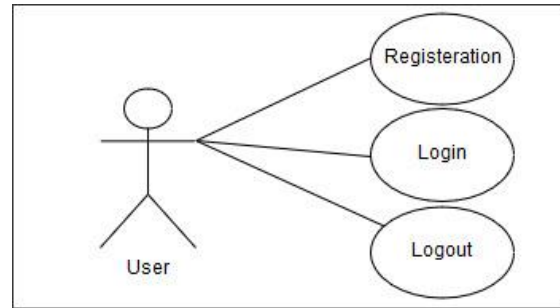
Identifiers	FR-009
Title	Allows Logout access online
Requirement	User registration, user login
Rational	Logout to the system and provide security to personal information.
Restriction and risk	User must login.
Dependency	Pc, Connection with server
Priority	Safety, timing

2.4.9.1. Functional Requirements

REQ-SF2-1: User must be registered to the system.

REQ-SF2-2: User must be login to the system.

REQ-SF2-3: User logout to the system.



Logout Usecase

Figure 2.10

2.5. Other Nonfunctional Requirements

2.5.1. Performance Requirements

With a specific end goal to keep up a worthy speed at most extreme number of transfers permitted from a specific client will be any number of clients and can get to the framework whenever. Likewise, associations with the servers will be founded on the criteria of properties of the client like his area, and server will work 24X 7 times.

2.5.2. Safety Requirements

- System should have a backup database in case of any loss or damage.
- System should be well updated.
- System should have backup server all the time stand by.
- Administrator should always alert due to that no one hacked website.
-

2.5.3. Security Requirements

- Security should be fool proof.
- It should have login through user account.
- Account should be integrated.
- Personal information of client should not be leaked out.

2.5.4. Software Quality Attributes

Reliability

The framework can be utilized by different clients simultaneously. Any client can get to the framework with utilizing even a low execution PC.

Availability

The framework is accessible amid 24 hours of the day.

Maintainability

The framework should give the ability to go down the Data.

Portability

Client can sign in to the framework whenever.

2.5.5. Business Rules

There are mostly two kinds of clients utilizing the framework, for example,

- User
- Administrator

Administrator has the full authorization of controlling the framework.

User has authorization to buy request or view detail of the item.

2.6. Other Requirements

At the point undertaking the principal matter to build up is to survey the plausibility of a task or item. It is essentially utilized as a measure how down to earth or gainful the advancement of a product framework will be to you (or association). This movement repeats for the duration of the life cycle.

There are numerous kinds of possibilities:

- Technical
- Economic
- Specification
- Information
- Motivational
- Legal and Ethical

Chapter 3

Use Case Analysis

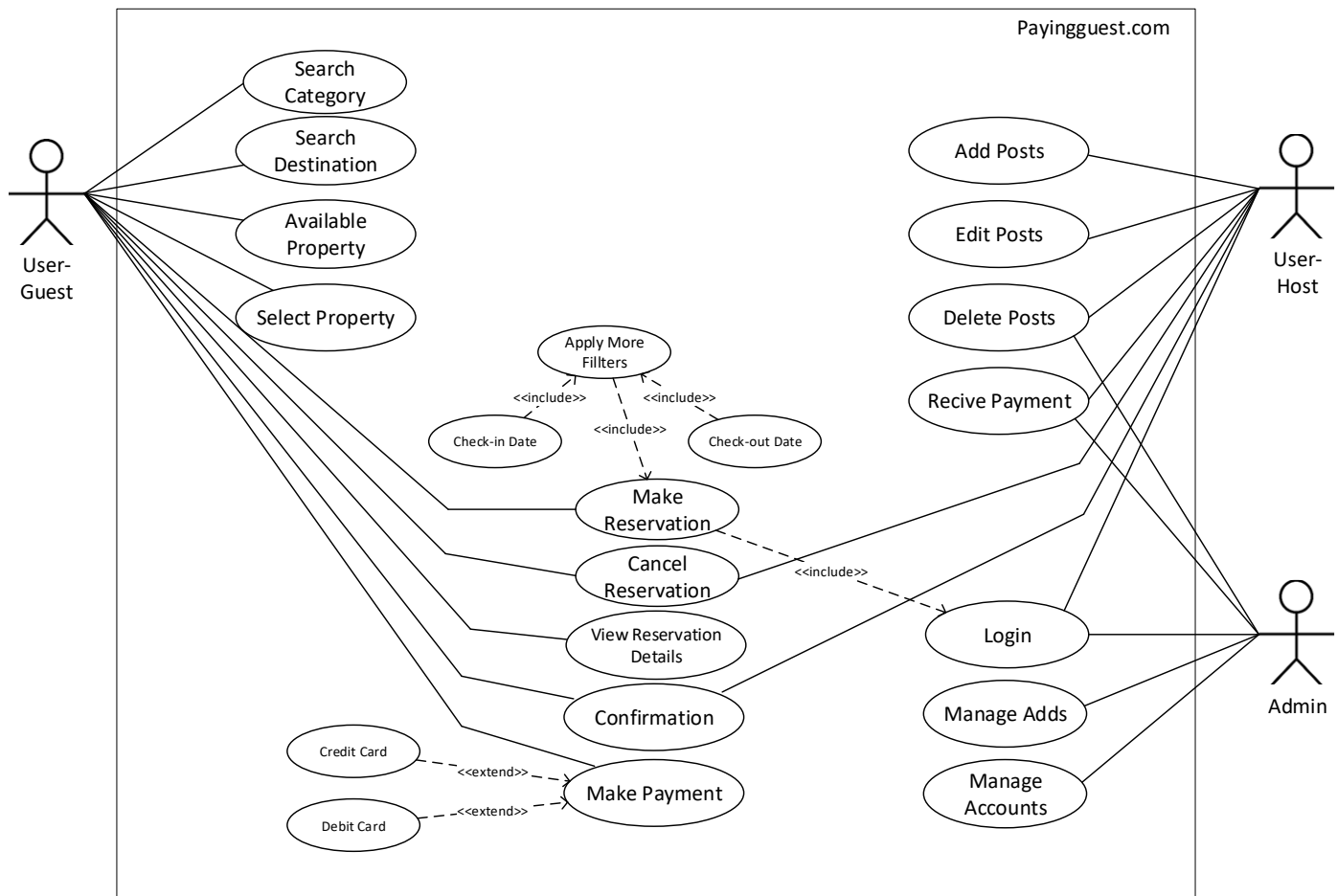
Chapter 3: System Analysis

This framework is tied in with changing over the renting house rooms framework from manual to on the web. The User/Client can see adds and make reservation online after login to the webpage. Host is adding posts to database. Overseer can alter or erase the items from the database. Administrator can see adds and refresh the status. Administrator is adding the conveyance answer to the database. Both administrator and client can see the conveyance report.

3.1. Use Case Model

A utilization case is an accumulation of related achievement and disappointment situations that depict on-screen characters utilizing the framework to help an objective. A situation is a particular succession of activities and associations amongst performing artists and the framework under discourse.

Figure 3.1



3.2. Use Case Descriptions

Use Case	Registration
Purpose	To keep the details of the new user for the website.
Description	Admin will see the complete list of details of the guest and host.
Primary Actor	Guest
Secondary Actor	Host
Stake Holders	Admin
Pre- Conditions	None
Post- Conditions	The Guest or host will be registered.
Main Success Scenario	<ul style="list-style-type: none"> • The guest will enter all the details and get registered to make reservations and can get details about the product and delivery. • Guest can update their profile whenever they want.
Alternative Scenarios	<ul style="list-style-type: none"> • If the system is down an error message will be displayed.
Assumptions	Guest knows how to use the system.

Use Case	Browse Category
Purpose	To see the different types of rooms.
Description	Guest will see the complete list of rooms of different type.
Primary Actors	Guest
Stake Holders	Admin
Pre- Conditions	Guest needs to be logged in or register.
Post- Conditions	The Guest will select any kind of clothes from any kind of brand.
Main Success Scenario	<ul style="list-style-type: none"> • The guest can browse different kind of rooms after registration. • Guest can add post to favorite list.
Alternative Scenarios	<ul style="list-style-type: none"> • If the system is down an error message will be displayed.
Assumptions	Guest know how to use the system.

Use Case	Make Reservation
Purpose	To make the reservation of rooms in the system.
Description	Guest can manage the list of products from cart.
Primary Actors	Guest
Stake Holders	Admin, Host
Pre- Conditions	Guest need to add check in and check out date.
Post- Conditions	The host can confirm the reservation.
Main Success Scenario	<ul style="list-style-type: none"> The guest can make reservation of rooms in system.
Alternative Scenarios	<ul style="list-style-type: none"> If the system is down an error message will be displayed.
Assumptions	Guest request to confirm the reservation in the system.

Use Case	Payment Details
Purpose	How guest wants to do the payment.
Description	Guest will select the method for payment and give details of the reservation.
Primary Actors	Guest
Stake Holders	Admin
Pre- Conditions	Guest needs to make reservation.
Post- Conditions	The reservation will be confirmed after the payment.
Main Success Scenario	<ul style="list-style-type: none"> The guest has given us all the correct details about reservation. The method that he selected was one of our types.
Alternative Scenarios	<ul style="list-style-type: none"> The guest cancels the reservation. If the system is down an error message will be displayed.
Assumptions	Guest know how to use the system.

Use Case	Posts
Purpose	The host can make post of room and submit it in system.
Description	Host will post the add of room, enter the details about it and able to post it in the system. Host will able to manage its post like add, update, delete.
Primary Actors	Host

Stake Holders	Guest, Admin
Pre- Conditions	Host must be registered.
Post- Conditions	The details of post should be accurate for confirmation
Main Success Scenario	<ul style="list-style-type: none"> The host can easily add post, enter details and manage post.
Alternative Scenarios	<ul style="list-style-type: none"> If the system is down an error message will be displayed.
Assumptions	Host know how to operate the system.

Use Case	Manage Category
Purpose	The category needs to be added, update, delete. Like type, area and other stuff.
Description	Guest can choose the category of rooms for reservation.
Primary Actors	Admin
Stake Holders	Guest, Host
Pre- Conditions	None
Post- Conditions	The data in the category will be add, update, delete and all the details are valid for the guests.
Main Success Scenario	<ul style="list-style-type: none"> The Admin can easily update and manage the category without any error. The admin is sure that the records are updated successfully.
Alternative Scenarios	<ul style="list-style-type: none"> If the system is down an error message will be displayed.

Use Case	Manage Posts
Purpose	To manage the post like add, update, delete.
Description	To manage the post like add, update, delete data of posts in paying guest system.
Primary Actors	Admin
Stake Holders	Host
Pre- Conditions	None
Post- Conditions	The data in the post will be add, update, delete and all the details are valid for the guests.
Main Success Scenario	<ul style="list-style-type: none"> The Admin can easily update and manage the post without any error.

	<ul style="list-style-type: none"> The admin is sure that the records are updated successfully.
Alternative Scenarios	<ul style="list-style-type: none"> If the system is down an error message will be displayed.

Use Case	Manage Accounts
Purpose	To manage all the users accounts.
Description	To manage all the users (user, host and admin) accounts. Like add, edit, update, delete data of accounts in the system.
Primary Actors	Admin
Stake Holders	Host, Guest, Admini
Pre- Conditions	Guest and host must be registered.
Post- Conditions	The data in the account will be add, update, delete and all the details are valid for the guest and host.
Main Success Scenario	<ul style="list-style-type: none"> The Admin can easily update and manage the account without any error. The admin is sure that the records are updated successfully.
Alternative Scenarios	<ul style="list-style-type: none"> If the system is down an error message will be displayed.

Chapter 4

System Design

Chapter 4: System Design

System Design

The Payingguest.com is online web-based application. The web program fills in as a UI for the framework. The web program speaks with the server utilizing HTTP as transport convention. Web program sends solicitations to the server and the server react to web in HTML organize, web program, at that point show the data to the client. WIFI or Ethernet is utilized and it needs a legitimate system. MySQL Database dwells on the server when client information is stored and handled.

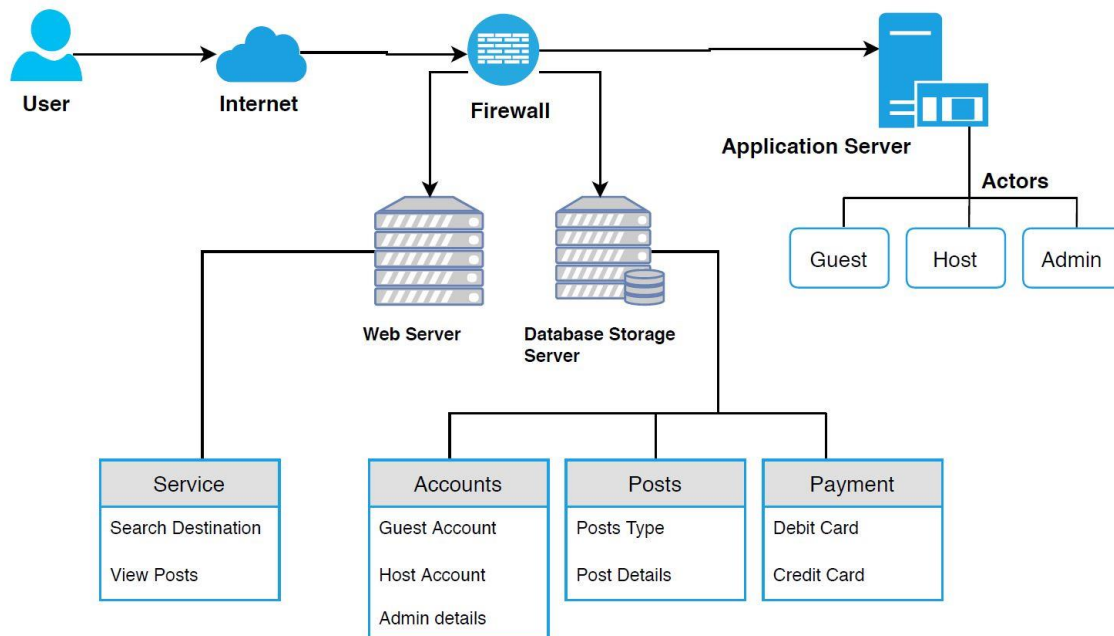


Figure 4.1

4.1. Architecture Diagram

Payingguest.com system architecture design.

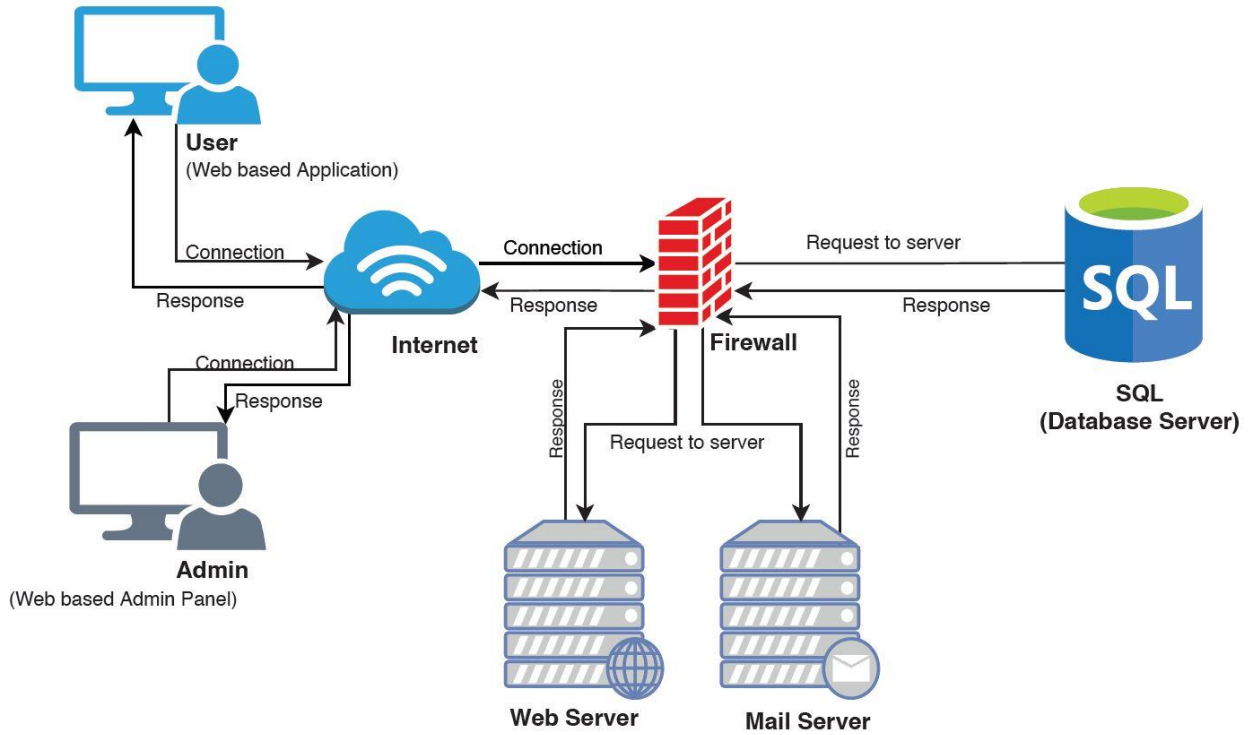


Figure 4.2

4.2. Domain Model

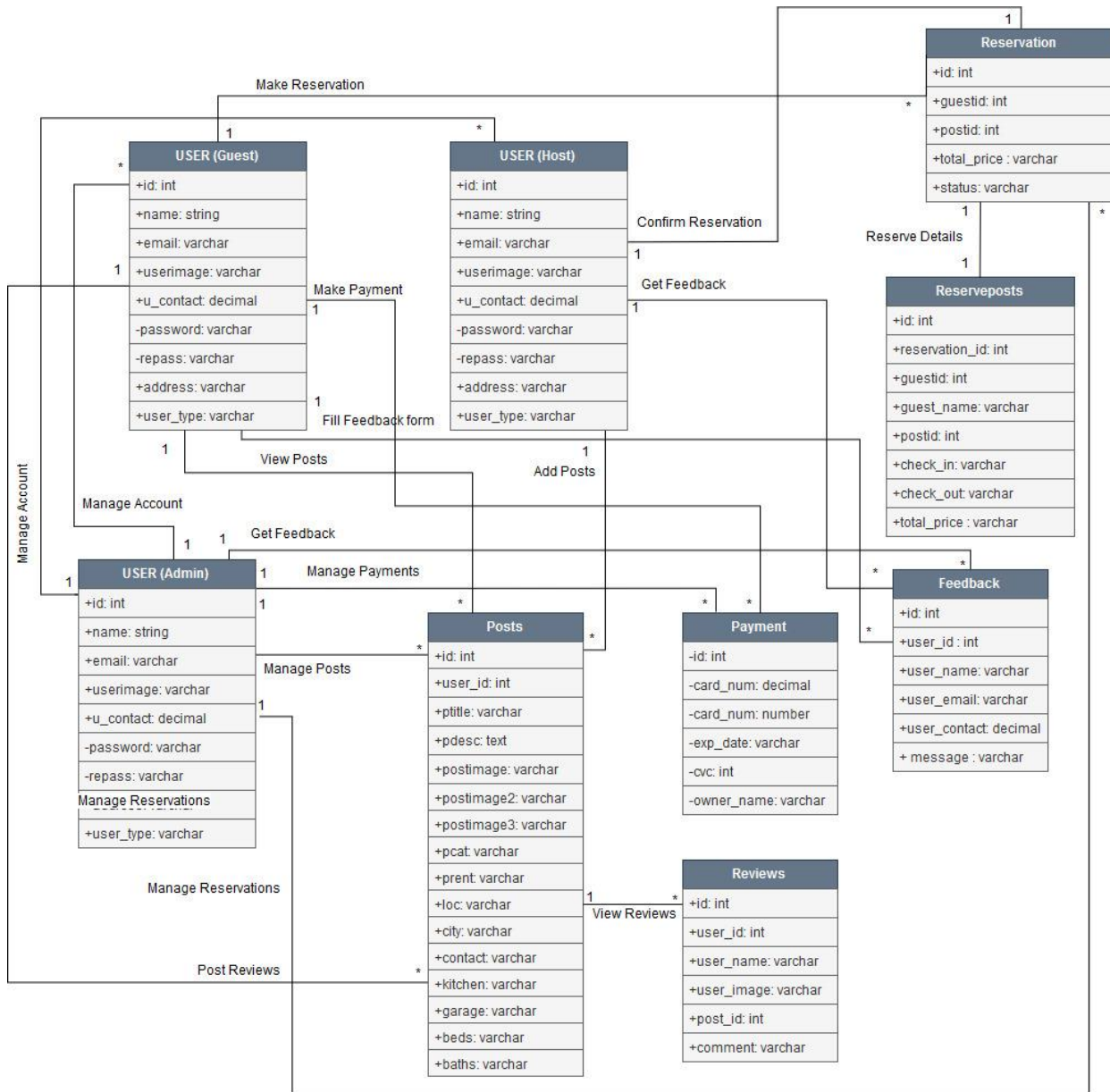


Figure 4.1

4.3. Entity Relationship Diagram with data dictionary

Payingguest Entity Relationship Diagram

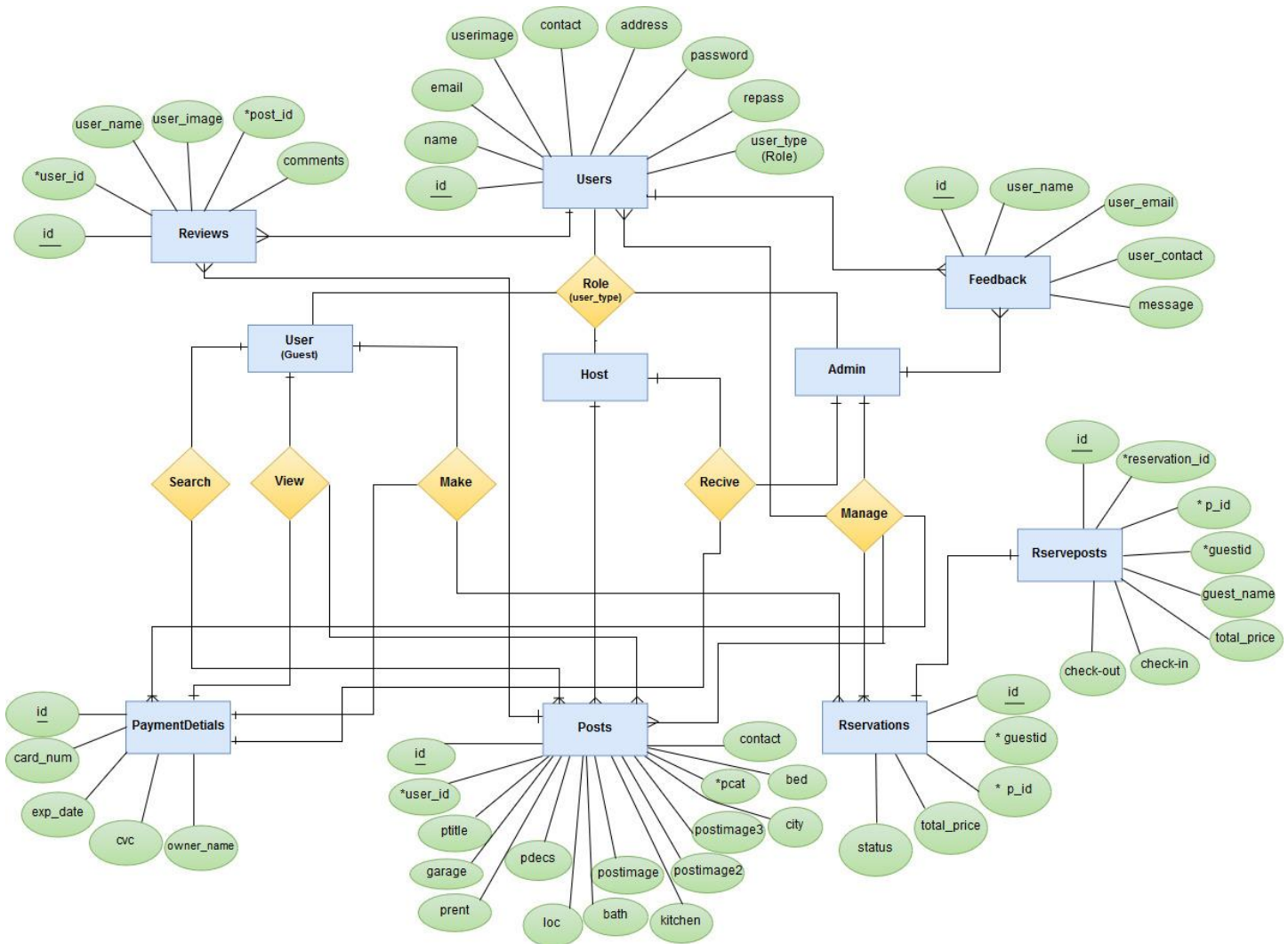


Figure 4.3

Payingguest Data dictionary

USERS				
Field Name	Data Type	Allow Null	Constrains	Description
ID	int	no	pk	ID of user
Name	varchar	no		Name of user

Email	varchar	no		Email address of user
Contact	decimal	no		Contact number of user
Address	varchar	no		Password of user account
UserImage	varchar	no		User image of user account
User_Type	varchar	no		User type define roles of user that if user is host, guest or admin.
Password	varchar	no		Password of account
Repass	varchar	no		Re Pass of user account

Posts				
Field Name	Data Type	Allow Null	Constrains	Description
Post ID	int	no	pk	ID of posted add
User_id	int	no	fk	User id who added post
Title	varchar	no		Title of post add
Category	varchar	no		Type of add
Description	varchar	no		Details description of posted adds
Image1	varchar	no		Picture1 relevant to add
Image1	varchar	no		Picture2 relevant to add
Image1	varchar	no		Picture3 relevant to add
Price	varchar	no		Price of room post
contact	varchar	no		Contact of host who posted add
Location	varchar	no		Location of room
City	varchar	no		City of room
Bed	varchar	no		No of beds
Bath	varchar	no		No of baths
Kitchen	varchar	no		Kitchen available or not
Garage	varchar	no		Garage available or not

Paymentdetails				
Field Name	Data Type	Allow Null	Constrains	Description
ID	int	no	pk	ID of payment
Owner Name	varchar	no		Name of card owner
CVC	int	no		Method of payment
Card_Number	varchar	no		Debit/Credit card no.
Exp_Date	varchar	no		Expiry date of card

Reservations				
Field Name	Data Type	Allow Null	Constrains	Description
ID	int	no	pk	ID of reservation
Post ID	int	no	fk	ID of posted add (foreign key)
User ID	int	no	fk	ID of user (foreign key)
Total Price	varchar	no		Total price of reservation

Reserveposts				
Field Name	Data Type	Allow Null	Constrains	Description
ID	int	no	pk	ID of reserve posts
Reservation ID	int	no	fk	ID of reservation (foreign key)
Post ID	int	no	fk	ID of posted add (foreign key)
User ID	int	no	fk	ID of user (foreign key)
User_Name	varchar	no		Name of user who reserve the room
Check-in	varchar	no		Check-in date of reservation
Check-out	varchar	no		Check-out date of reservation
Total Price	varchar	no		Total price of reservation

Reviews				
Field Name	Data Type	Allow Null	Constrains	Description
ID	int	no	pk	ID of reviews
Post ID	int	no	fk	ID of post (foreign key)
User ID	int	no	fk	ID of user (foreign key)
User_Nmae	varchar	no		User name who add review
User_Image	varchar	no		User image who add review
Comment	varchar	no		Comment of post

Feedback				
Field Name	Data Type	Allow Null	Constrains	Description
ID	int	no	pk	ID of reviews
Name	varchar	no		Name of user
Email	varchar	no		Email of user
Contact	varchar	no		Contact of user
Message	varchar	no		Message of user

4.4. Class Diagram

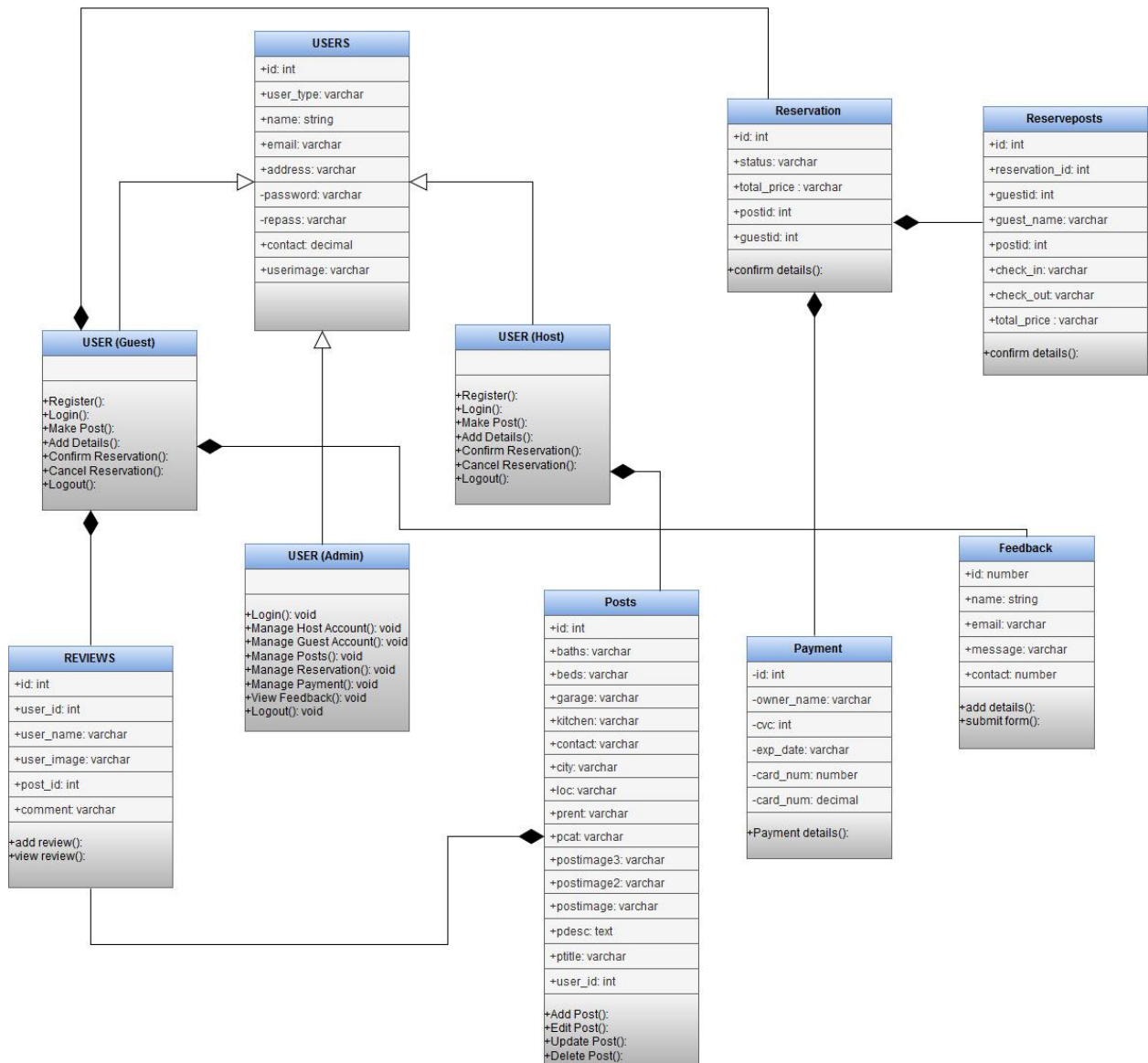


Figure 4.4

4.5. Sequence / Collaboration Diagram

User Guest Side Sequence Diagram:

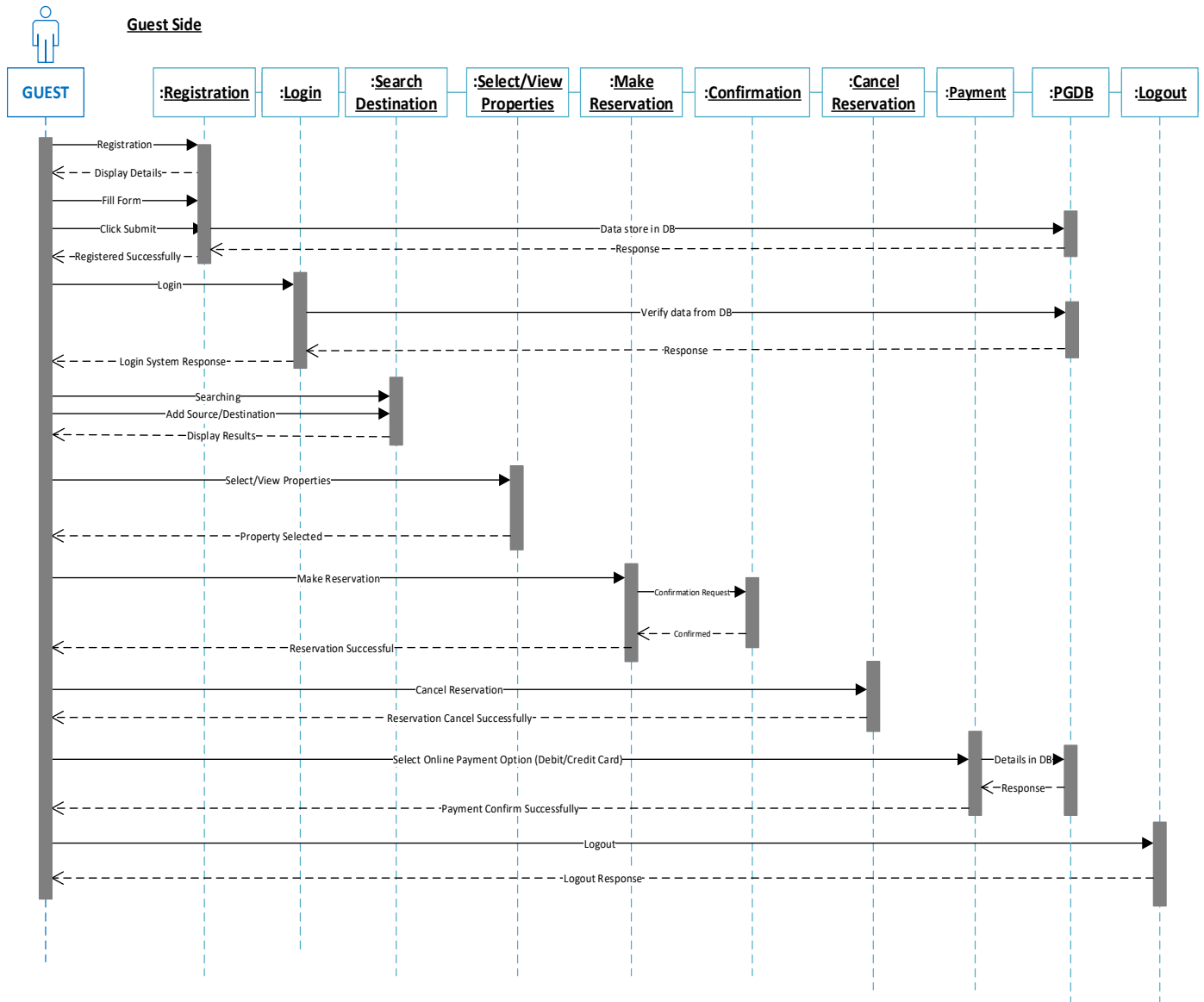


Figure 4.5

User Host Side Sequence Diagram:

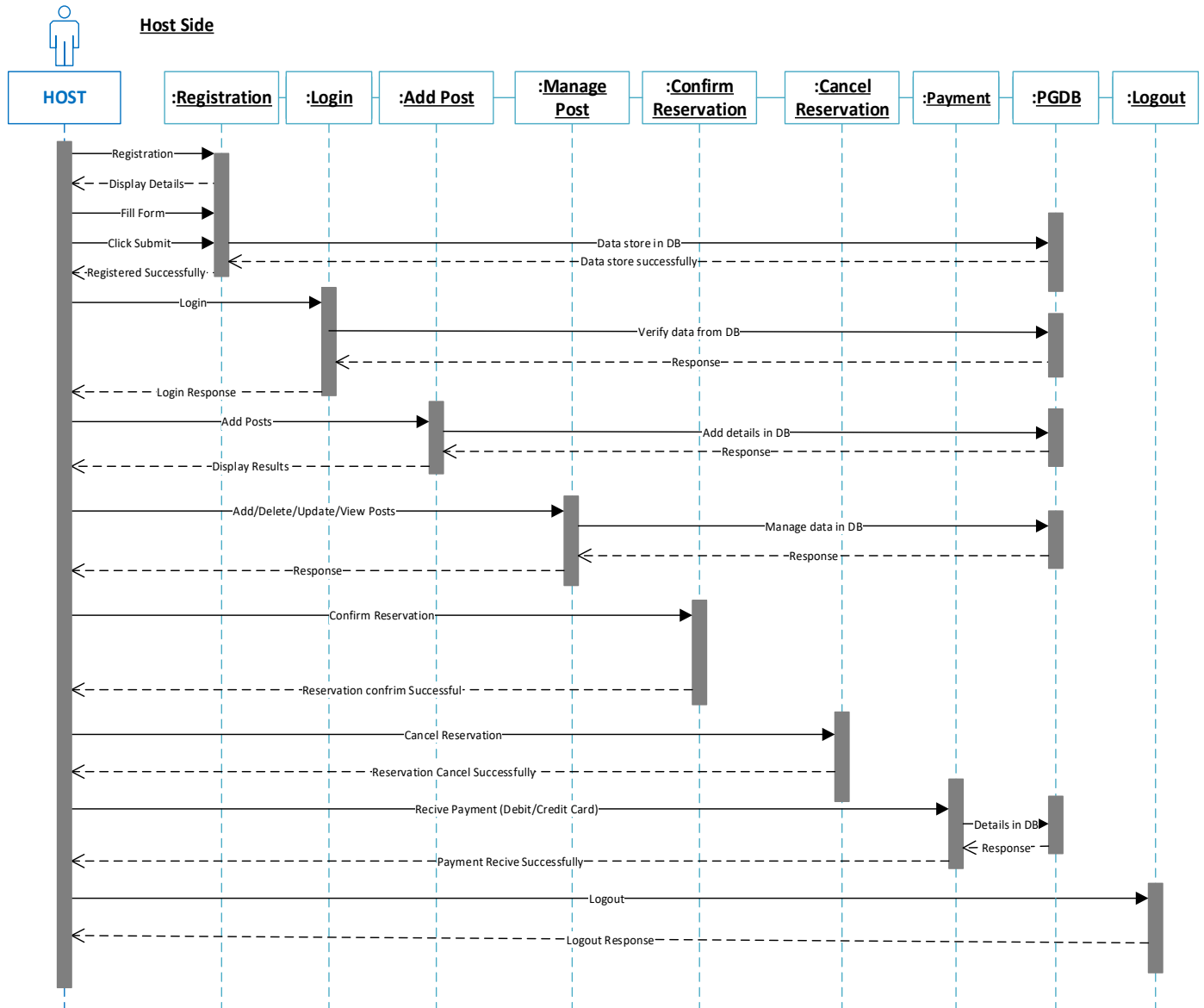


Figure 4.6

Administrator Side Sequence Diagram:

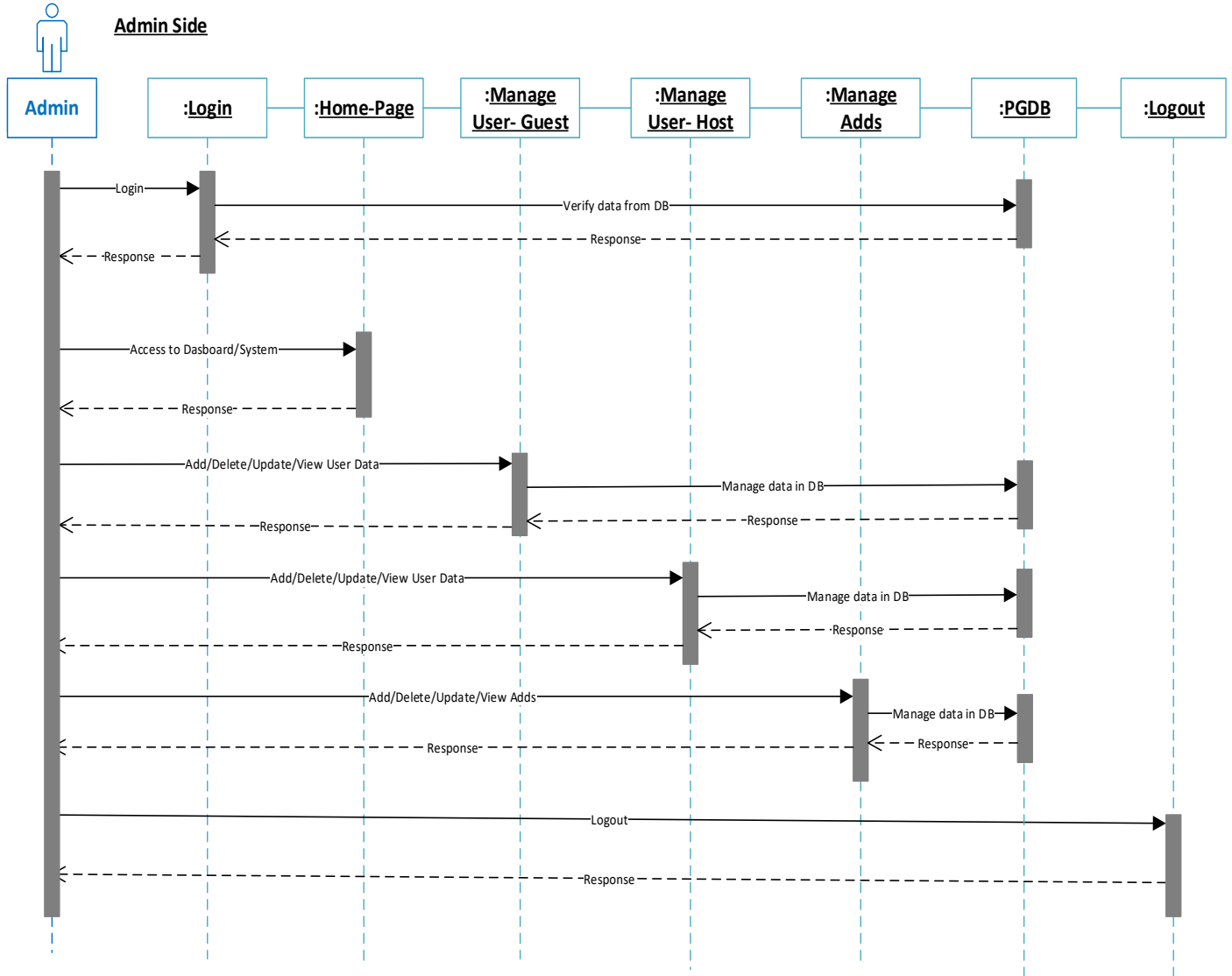


Figure 4.7

4.6. Operation contracts

4.6.1 Operation Contract#1

Name: Register.

Responsibilities: To register the new user.

Cross References: Use case: Register.

Exceptions: None.

Preconditions: Register interface must be opened and user must enter valid information.

Post conditions: Welcome screen showed to the user.

4.6.2 Operation Contract#2

Name: Sign in.

Responsibilities: A user is logged in.

Cross References: Use Case: Sign In.

Exceptions: invalid user name or password.

Preconditions: user must have account.

Post conditions: Successfully signed in.

4.6.3 Operation Contract#3

Name: Sign out.

Responsibilities: user is logged out.

Cross References: Use Case: Sign_out.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Log out successfully.

4.6.4 Operation Contract#4

Name: Select room

Responsibilities: User must login and select room.

Cross References: Use Case: Select room.

Exceptions: None.

Preconditions: Must be logged in.

Post conditions: Select item successfully.

4.6.5 Operation Contract#5

Name: View detail.

Responsibilities: User must View detail of the room.

Cross References: Use Case: View Detail.

Exceptions: None.

Preconditions: None.

Post conditions: View detail successfully.

4.6.6 Operation Contract#6

Name: View Host detail.

Responsibilities: User must View Host detail of the product.

Cross References: Use Case: View Host Detail.

Exceptions: None.

Preconditions: User must login.

Post conditions: View Host detail successfully.

4.6.7 Operation Contract#7

Name: Make Reservation.

Responsibilities: User must make reservation of the selected room.

Cross References: Use Case: Make Reservation.

Exceptions: None.

Preconditions: User must login.

Post conditions: View place order successfully.

4.6.8 Operation Contract#8

Name: Cancel Reservation.

Responsibilities: User must cancel reservation of the room, which he reserved.

Cross References: Use Case: Cancel Reservation.

Exceptions: None.

Preconditions: User must login.

Post conditions: Cancel reservation successfully.

4.6.9 Operation Contract#9

Name: View Reservation.

Responsibilities: User must View Reservation of the room, which he makes.

Cross References: Use Case: View reservation.

Exceptions: None.

Preconditions: User must login.

Post conditions: View order successfully.

4.6.10 Operation Contract#10

Name: Confirm Reservation.

Responsibilities: User must select the room and make reservation.

Cross References: Use Case: Confirm Reservation.

Exceptions: None.

Preconditions: User must login.

Post conditions: Add to cart successfully.

4.6.11 Operation Contract#11

Name: Payment.

Responsibilities: User must select payment method after making reservation.

Cross References: Use Case: Make Payment.

Exceptions: None.

Preconditions: User must login.

Post conditions: Make payment successfully.

4.7. Activity Diagram

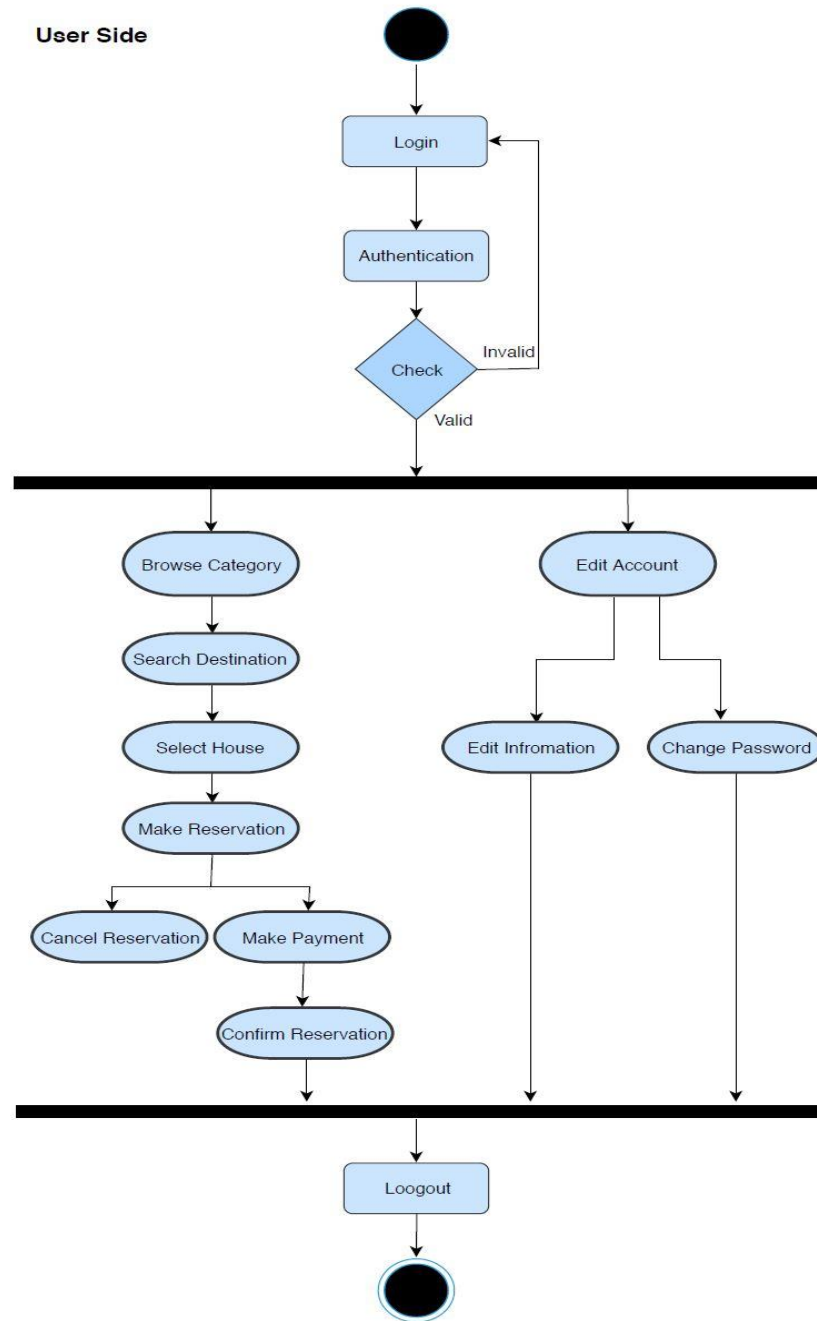


Figure 4.8

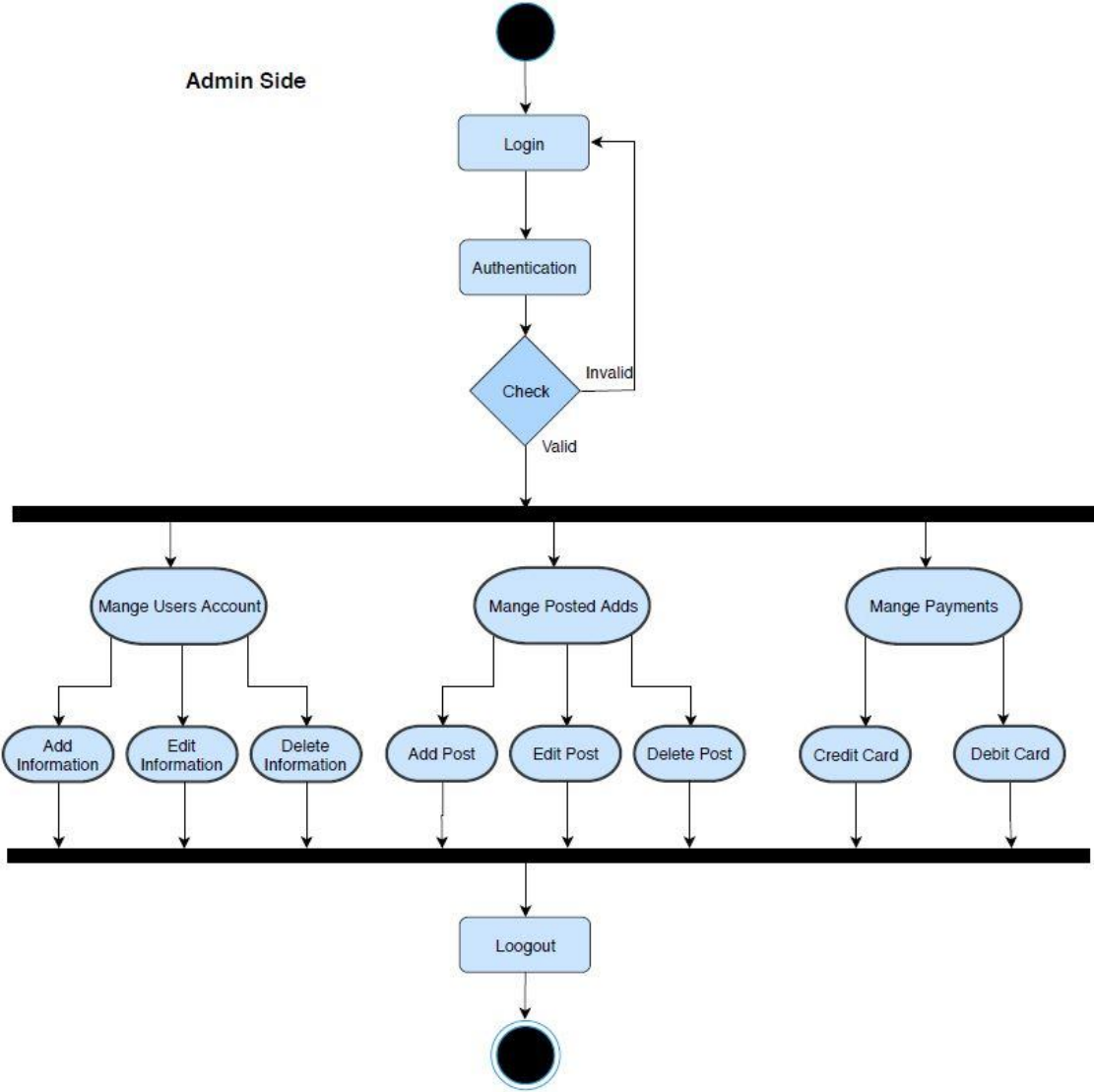


Figure 4.9

4.8. State Transition Diagram

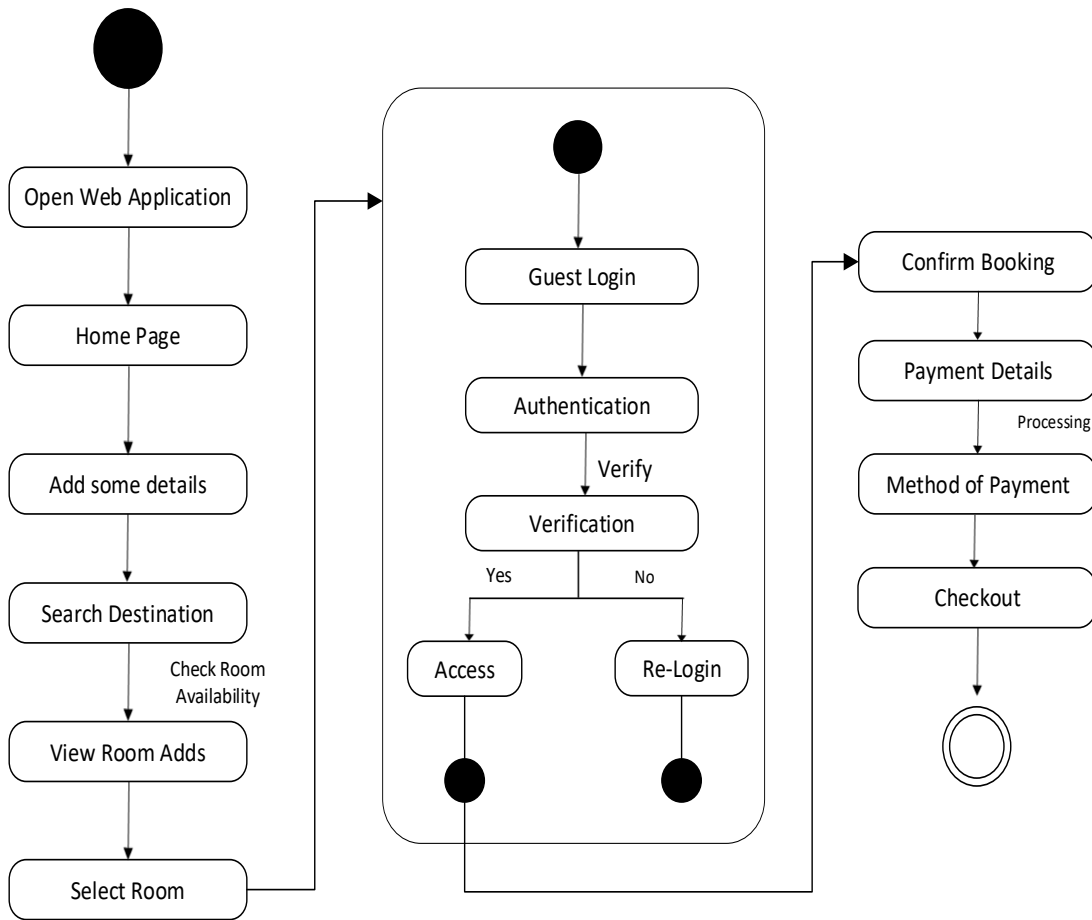


Figure 4.10

4.9. Component Diagram

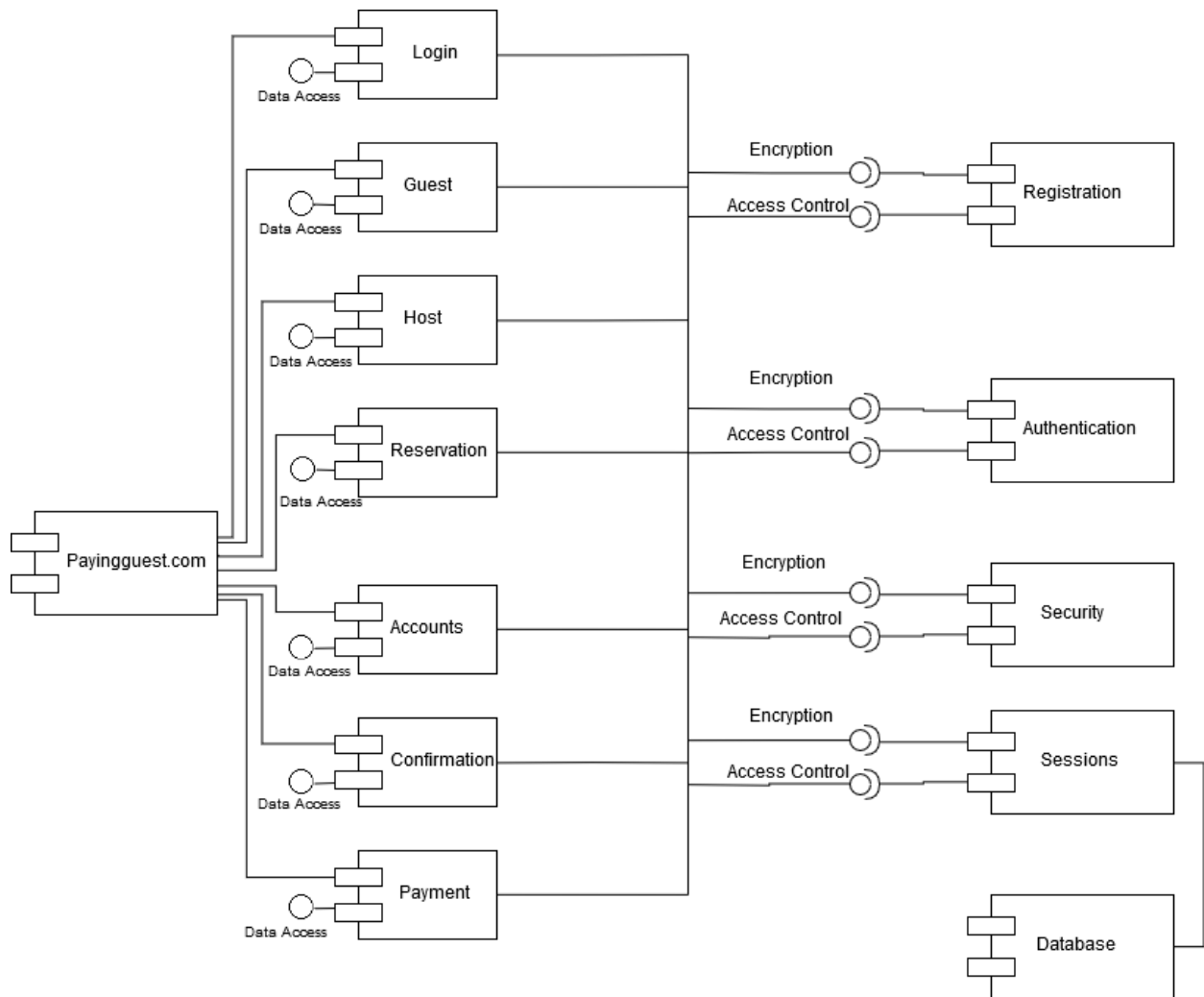


Figure 4.11

4.10. Deployment Diagram

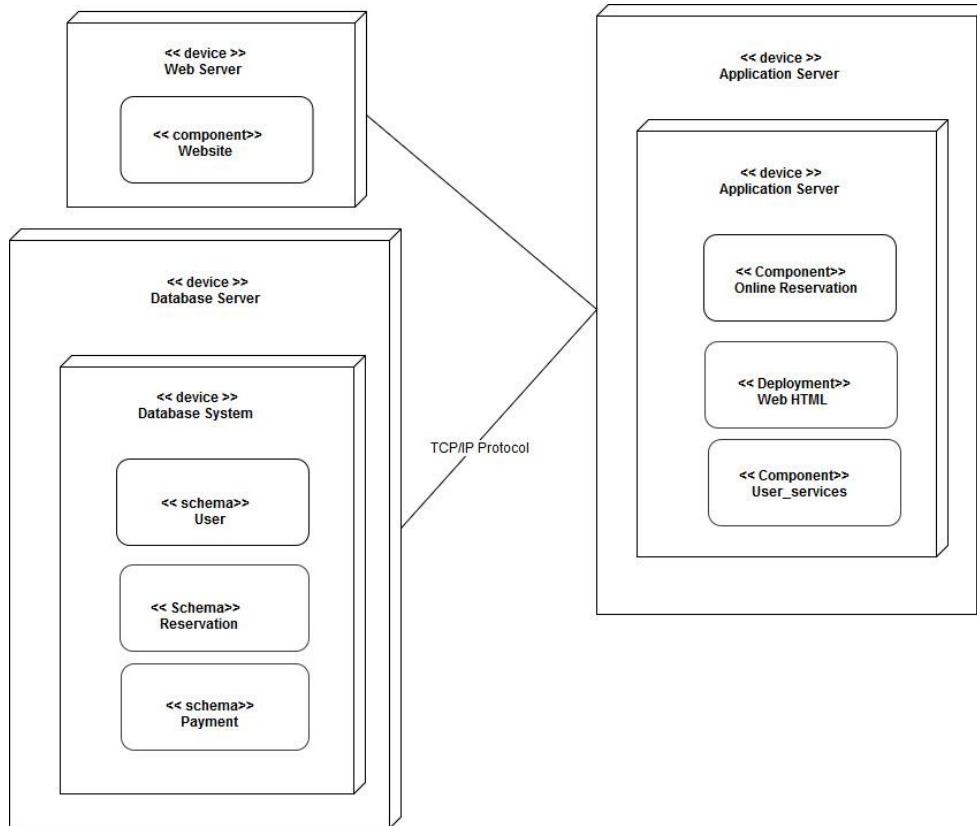


Figure 4.12

Chapter 5

Implementation

Chapter 5: Implementation

This is a task with the goal to build up an essential **site** where a purchaser is given a shopping basket application and furthermore to think about the advances used to grow such an application. This report will talk about every one of the fundamental advances to make and actualize a web-based **business site**.

5.1. Important Flow Control/Pseudo codes

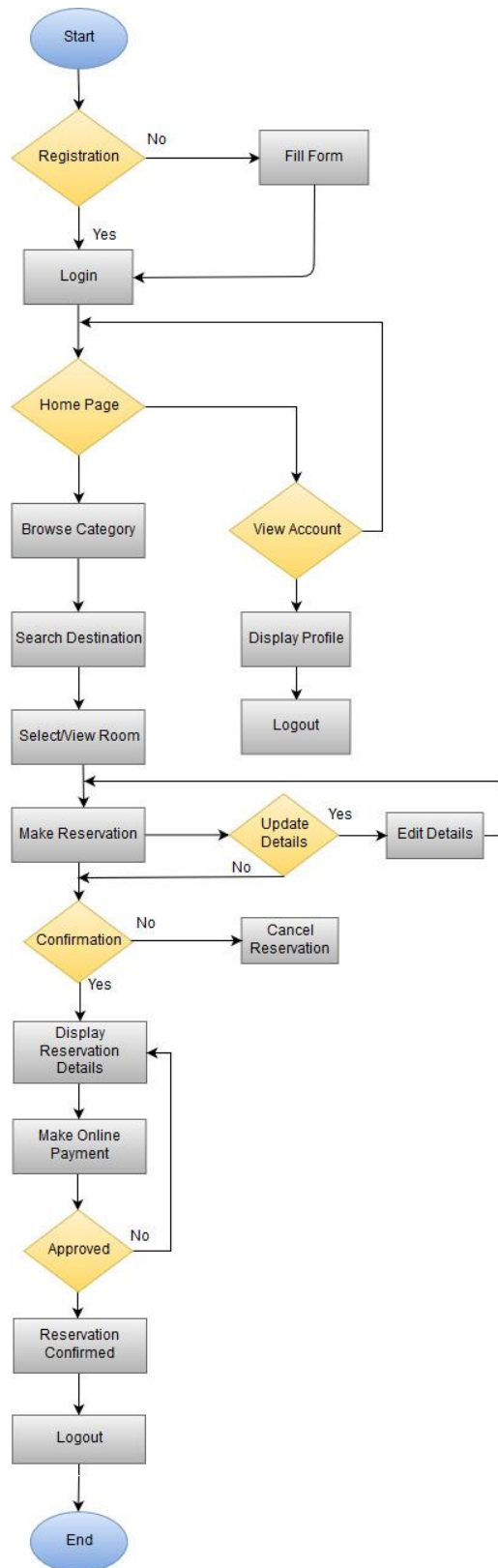


Figure 5.1

5.2. Components, Libraries, Web Services and stubs

Components:

1. Properly Structured Website

Payingguest.com website is easy to use. If a guest wants to rent a room, they can easily rent a room from our website. Our website has a simple structure, with the most important pages accessible from the main navigation menu. My website has many rooms of separate categories.

2. Mobile Friendly Shopping Experience

Today, the world of technology is evolving quickly; more and more people have been using their mobile devices to shop online. My payingguest.com website is mobile friendly. This website mobile navigation is easy to use and payingguest.com having friendly environment.

Web Services

- Consumers straightforwardly rent room or administrations from the owner continuously, without a go-between benefit
- 24-hr access
- Variety
- Ability to comparison.
- The in home-privacy

5.3. Deployment Environment

Here we need a domain on which the payingguest.com system will exist and through the domain several people will access the web-application. And smart phone users can open the website easily via the built-in search engines on their smart phones and can use website. It required one administrator who will be in charge of the approval and other supervision duty.

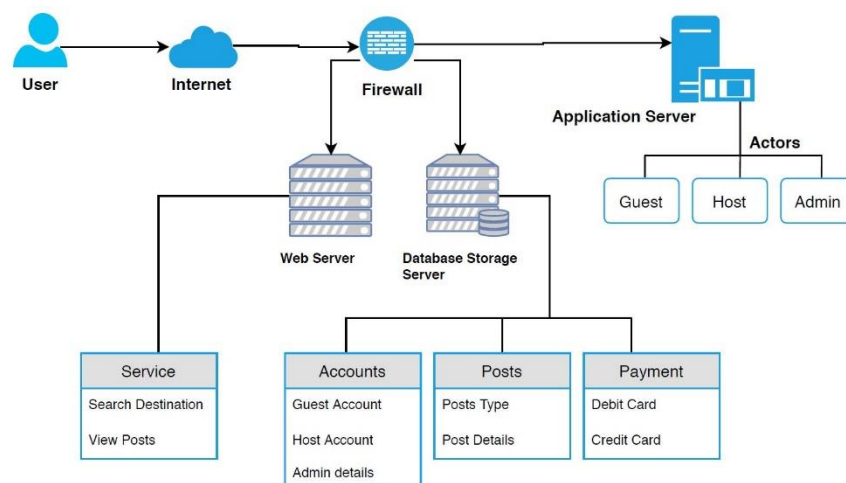


Figure 5.2

5.4. Tools and Techniques

Applications and tools that would be used during this project preparation are as follows:

PHP (Laravel Framework)

It provides latest Functionalities regarding web application development.

Microsoft Word

Microsoft word is the word processor and would be used for documentation purpose throughout the whole project.

Microsoft Excel

Microsoft excel is spreadsheet and would be used for data analysis throughout the whole project.

Microsoft Project

Microsoft Projects provides extensive features on project management with a prominent feature of project scheduling. Gantt charts, resource allocations. This would be used as a project management tool throughout the whole project.

Draw.io

Draw.io is a tool for modeling different diagrams which would be addressed during analysis and design phases of the project.

Project Modeling

Rational Rose and Microsoft Visio are to be used to draw use cases with different perspectives as they support the language of Rational Unified Process (RUP). Use case Diagram, Data Flow Diagram (DFD), domain model and all other OOAD analysis and Design diagrams are supported.

Server

Server is required where whole data is stored

5.5. Best Practices / Coding Standards

- No coding repetitions
- Function and classes are always commented showing expected input and output

5.6. Version Control

A component of software configuration management, version control, also known as revision control or source control, is the management of changes to documents, computer programs, large web sites, and other collections of information. So, in this system we have used the agile software development for version control.

Chapter 6

Testing and Evaluation

Chapter 6: Testing and Evaluation

The development of online system in which user can view the posted adds of rooms and can make reservation easily. User can search rooms according to their desires. Testing strategy is decided for testing the system so that all modules are tested to fulfill all user requirements. A test strategy is methodology that describes the various steps that need to be performed during testing and the time and effort required for performing them. The following strategies are used for testing.

6.1. Use Case Testing

Test Case 01: Registration

Test case 1 (Registration)	
Test suite ID	S001
Test Case ID	C001
Actor	Unregister user
Test Case Summery	To verify that the Registration saves new user.
Related Requirement	User should be able to sign up.
Prerequisites	None
Test Procedure	<ul style="list-style-type: none"> • Open the Registration, Press Register button • Fill Registration Form. • Click Submit button.
Test Data	For username field: Ammar, Ammar111 Useremail: ammar@admin Password field: 1122, ABC12* UserImage: Img.jpg Contact: 112233 Address: Wapda Town
Expected	<p>For username:</p> <ul style="list-style-type: none"> ➤ If valid username is entered, the field color should turn green (accepted). ➤ If invalid username is entered, the field color should turn red (rejected). ➤ The form will not be post and User will be notify "Please match the format request as the password requirement is not meet." ➤ The form will not be post and User will be notify "Please match the format request as the password Confirmation is not Correct." ➤ When User enters a Password less then (5 digits password) then a message must show "Your Password is Weak Please Enter the Strong

	<p>Password to secure your account”.</p> <ul style="list-style-type: none"> ➤ The User will be created in the database, the browser will display the Search area and client name will replace the text “guest” in the Navigation bar.
Actual Result	Test Successful.
Status	Pass
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 02: Login

Test case 2 (Login)	
Test suite ID	S002
Test Case ID	C002
Actor	Register user guest, user host, user admin
Test Case Summery	To verify that login button functions correctly.
Related Requirement	User should
Prerequisites	User must be registered
Test Procedure	<ul style="list-style-type: none"> • Open application • Enter Email and password • Click on the login button
Test Data	Login detail username: omer96@admin Login detail password: 123123
Expected	<ul style="list-style-type: none"> ➤ If the username and password are valid then the home page should be Opened. ➤ When User enters in invalid Email then message show “Your Email is invalid Please Enter the correct Email, Retry option”.

	➤ When User enters a wrong Password then message show “Your Password is invalid Please Enter the correct Password, Retry option”.
Actual Result	Login successful
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 03: Logout

Test case 3 (Logout)	
Test suite ID	S003
Test Case ID	C003
Actor	Register user guest, user host, user admin
Test Case Summery	To verify that Logout button is working when user click on it.
Related Requirement	Login user cans Logout.
Prerequisites	None
Test Procedure	<ul style="list-style-type: none"> • When the user can Log in if he want to Logout. • Click Logout button
Test Data	For username field: Omer96, omer96@admin For password field: 123123, asd123 For city: Lahore, Islamabad
Expected	For username: <ul style="list-style-type: none"> ➤ If valid username is entered, the field color should turn green (accepted). ➤ If invalid username is entered, the field color should turn red (rejected). ➤ The form will not be post and User will be notify “Please match the format request as the password requirement is not meet.” ➤ The form will not be post and User will be notify “Please match the format request as the password Confirmation is not Correct.”

	<ul style="list-style-type: none"> ➤ When User enters a Password less then (5 digits password) then message show “Your Password is Weak Please Enter the Strong Password to secure your account”. ➤ The User will be created in the database, the browser will display the search area and client name will replace the text “guest” in the navigation bar. ➤ When the user wants to logout then click on logout button.
Actual Result	Login successful
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 04: Search Posts

Test case 4 (Search Posts)	
Test suite ID	S004
Test Case ID	C004
Actor	Register user guest, user host, user admin
Test Case Summery	To verify Search property button is functioning correctly.
Related Requirement	User can search post and add view details.
Prerequisites	
Test Procedure	<ul style="list-style-type: none"> • Login in • Search Post
Test Data	Valid Search Post Invalid search post
Expected	User can select Item
Actual Result	Search properties shows result and user can show details.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019

Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 05: Select Posts

Test case 5 (Select Post)	
Test suite ID	S005
Test Case ID	C005
Actor	Register user guest, user host, user admin
Test Case Summary	To verify Select item button is functioning correctly.
Related Requirement	User can select item and add into cart.
Prerequisites	
Test Procedure	<ul style="list-style-type: none"> • Login in • Select Item
Test Data	Valid selected Item Invalid selected Item
Expected	User can select Item
Actual Result	Select item is added into the cart.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 06: View Posts Details

Test case 6 (View Post Details)	
Test suite ID	S006
Test Case ID	C006
Actor	Register user guest, user host, user admin

Test Case Summery	To verify View post detail is functioning correctly.
Related Requirement	User can enter required information to view detail.
Prerequisites	Select the item.
Test Procedure	Login in User can enter a required information
Test Data	User can view detail of the items
Expected	User can view detail of selected item.
Actual Result	View detail of the selected item
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 07: Make Reservation

Test case 7 (Make Reservation)	
Test suite ID	S007
Test Case ID	C007
Actor	Register user guest, user host, user admin
Test Case Summery	To verify place order button is functioning correctly.
Related Requirement	<ul style="list-style-type: none"> • User must be successfully Login In. • Information of the User must be successfully entered. • Information of the Source must be successfully entered.
Prerequisites	User must be login.
Test Procedure	User must login Select the post Add to list after selecting the post.
Test Data	User can make reservation.
Expected	User can make reservation after selecting the post.

Actual Result	Make reservation after selecting the product.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 08: Make Reservation

Test case 8 (Confirm Reservation)	
Test suite ID	S008
Test Case ID	C008
Actor	Register user guest, user host, user admin
Test Case Summary	To verify make reservation button is functioning correctly.
Related Requirement	<ul style="list-style-type: none"> • User must be successfully Login In. • Information of the User must be successfully entered. • Information of the Source must be successfully entered.
Prerequisites	User must be login.
Test Procedure	User must login Select the post Add to list after selecting the post. Confirm reservation
Test Data	User can confirm reservation.
Expected	User can confirm reservation after selecting the post.
Actual Result	Confirm reservation after selecting the product.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 09: Cancel Reservation

Test case 9 (Cancel Reservation)	
Test suite ID	S009
Test Case ID	C009
Actor	Register user guest, user host, user admin
Test Case Summery	To verify cancel reservation button is functioning correctly.
Related Requirement	<ul style="list-style-type: none"> • User must be successfully Login In • Information of the User must be successfully entered • Information of the Source must be successfully entered
Prerequisites	User must be login.
Test Procedure	<ul style="list-style-type: none"> • User must login • Select the item • User can cancel the reservation.
Test Data	User can cancel reservation.
Expected Result	User can cancel order after making the reservation.
Actual Result	Cancel the reservation.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 10: Add to Reservation List

Test case 10 (Add to reservation list)	
Test suite ID	S010
Test Case ID	C010
Actor	Register user guest, user host, user admin
Test Case Summery	To verify Add to reservation list button is functioning correctly.
Related Requirement	<ul style="list-style-type: none"> • User must be successfully Login In • Information of the User must be successfully entered

	<ul style="list-style-type: none"> Information of the Source must be successfully entered
Prerequisites	None
Test Procedure	<ul style="list-style-type: none"> User must login Select the post Add to reservation after selecting the post.
Test Data	User can add post to reservation list.
Expected Result	User can add post to reservation list.
Actual Result	User add post to reservation list for make reservation.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 11: Make Payment

Test case 11 (Make Payment)	
Test suite ID	S011
Test Case ID	C011
Actor	Register user guest, user host, user admin
Test Case Summery	To verify confirm reservation list button is functioning correctly.
Related Requirement	<ul style="list-style-type: none"> User must be successfully Login In Information of the User must be successfully entered Information of the Source must be successfully entered
Prerequisites	User must be login system
Test Procedure	<ul style="list-style-type: none"> User must login Select the post Add to reservation after selecting the post. Confirm Reservation
Test Data	User can make payment to confirm reservation.
Expected Result	User can make payment to confirm reservation.
Actual Result	User make the payment and checkout

Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 12: Add Post

Test case 12 (Add Post)	
Test suite ID	S011
Test Case ID	C011
Actor	Register user host, user admin
Test Case Summary	To verify add post button is functioning correctly.
Related Requirement	User must be successfully Login
Prerequisites	User must be login to system
Test Procedure	<ul style="list-style-type: none"> • User must login • Add post
Test Data	Post field: Big Room Description field: Big nice room at low price Rent: 1300 Post Image 1: Img.jpg Post Image 2: Img2.jpg Post Image 3: Img3.jpg Post Category: Master Room Location: Wapda Town City: Lahore Kitchen: Yes Garage: Yes Bed: 1 Bath: 2
Expected	User host and admin can add the post of rooms in system.
Actual Result	Post is added by user host or admin
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 13: Update Post Details

Test case 13 (Update Post Details)	
Test suite ID	S013
Test Case ID	C013
Actor	Admin, User Host
Test Case Summery	To verify Update item button is functioning correctly.
Related Requirement	Admin and user host can Update post
Prerequisites	User host must be login Post must be added
Test Procedure	<ul style="list-style-type: none"> • User must be login • Post added • Post updated
Test Data	Post field: Big Room 2 Description field: Big nice room 2 at low price Rent: 1500 Post Image 1: Img1.jpg Post Image 2: Img4.jpg Post Image 3: Img5.jpg Post Category: Master Room 2 Location: Joahr Town City: Islamabad Kitchen: Yes Garage: No Bed: 2 Bath: 1
Expected	Post details can update by user host and admin.
Actual Result	Post details are updated
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 14: Delete Post

Test case 14 (Delete Post)	
Test suite ID	S014
Test Case ID	C014
Actor	Admin, User Host
Test Case Summery	To verify delete item button is functioning correctly.
Related Requirement	Admin and user host can delete post form database.

Prerequisites	User host must be login Post must be added
Test Procedure	<ul style="list-style-type: none"> • User must be login • Post added • Post delete
Test Data	Post is deleted in the database.
Expected	Post is deleted in the database by admin and user host.
Actual Result	Post is deleted in the database.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 15: Add Post Category

Test case 15 (Add Post Category)	
Test suite ID	S015
Test Case ID	C015
Actor	Register user admin
Test Case Summery	To verify add category button is functioning correctly.
Related Requirement	Admin must be successfully Login
Prerequisites	Admin must be login to system
Test Procedure	<ul style="list-style-type: none"> • User must login • Add post category
Test Data	Post Category: Master Room
Expected	Admin can add the category of rooms in system.
Actual Result	Post category is added by user admin
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar

Date of Execution	06/06/2019
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Test Case 16: Update Post Category

Test case 16 (Update Post Category)	
Test suite ID	S016
Test Case ID	C016
Actor	Admin
Test Case Summery	To verify Update item button is functioning correctly.
Related Requirement	Admin can Update post category
Prerequisites	User admin must be login
Test Procedure	<ul style="list-style-type: none"> • User admin must be login • Category added • Category updated
Test Data	Post Category: Master Room 2
Expected	Post category details can update by user admin.
Actual Result	Post category details are updated
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

Test Case 17: Delete Post

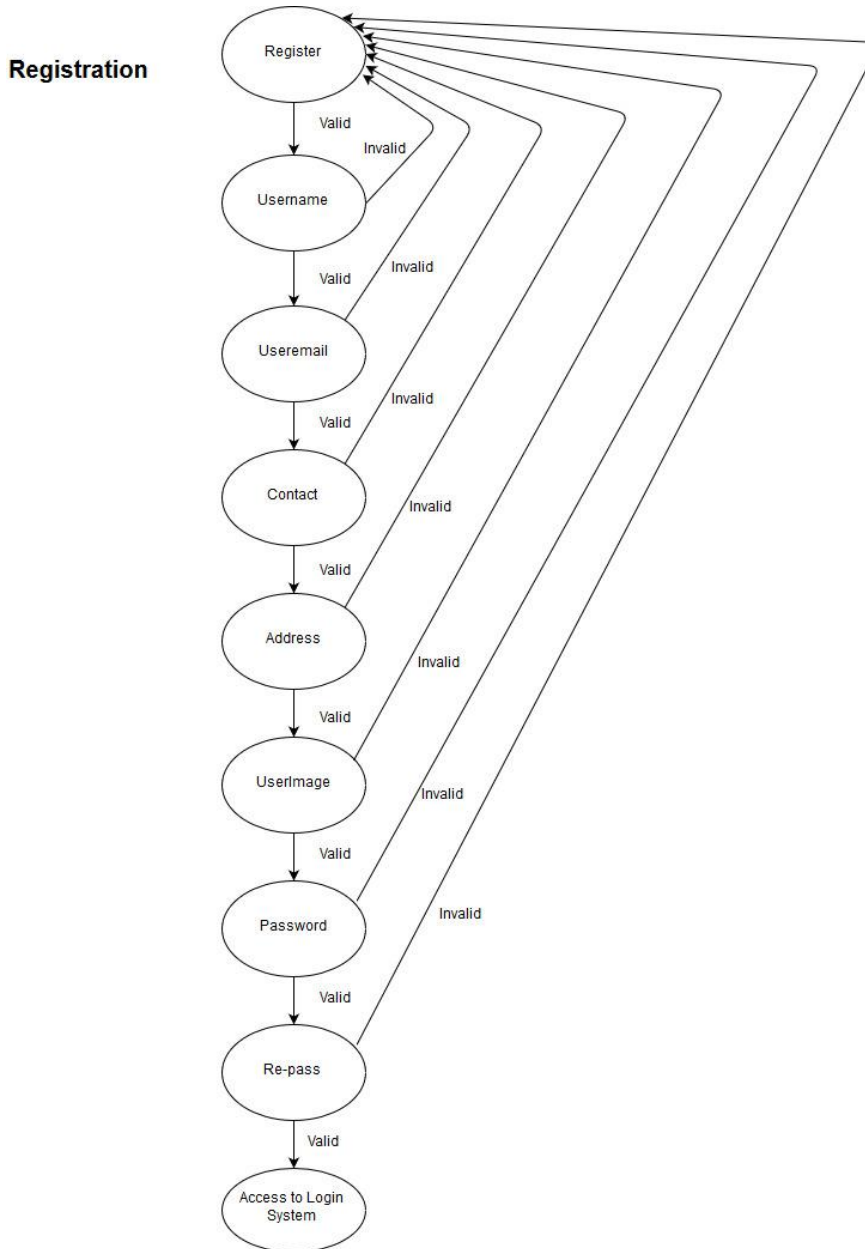
Test case 17 (Delete Post Category)	
Test suite ID	S017
Test Case ID	C017
Actor	Admin
Test Case Summery	To verify delete category button is functioning correctly.

Related Requirement	Admin can delete post category form database.
Prerequisites	User host must be login Post must be added
Test Procedure	<ul style="list-style-type: none"> • User must be login • Category added • Category delete
Test Data	Category is deleted in the database.
Expected	Category is deleted in the database by admin.
Actual Result	Post category is deleted in the database.
Status	Test Successful.
Created By	Muhammad Omer
Date of Creation	25/05/2019
Executed by	Muhammad Ammar
Date of Execution	06/06/2019

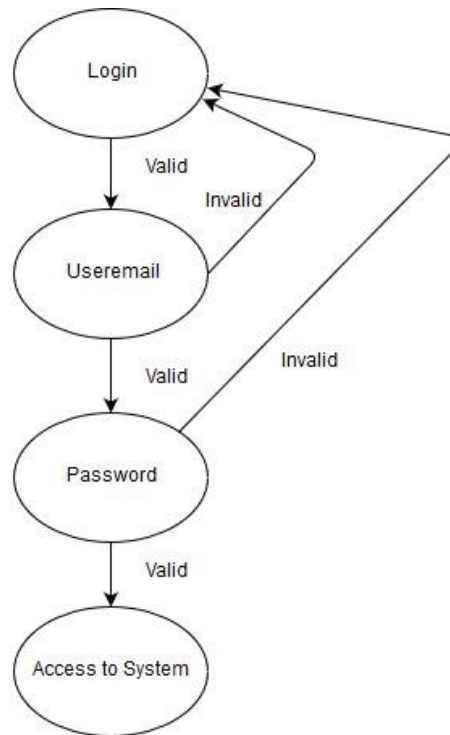
6.2. Function testing

The function testing is about to test the whole function and check that if the function is working properly. In this scenario we will test all the functionalities of the project an after all these testing we have entered all the screenshots of our website which are given in this document. System testing involves the set of tests that ensures that the entire system performs according to specifications.

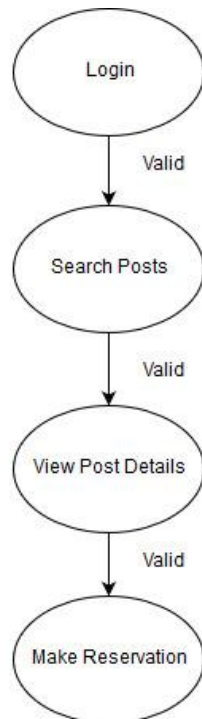
6.3. Data flow testing



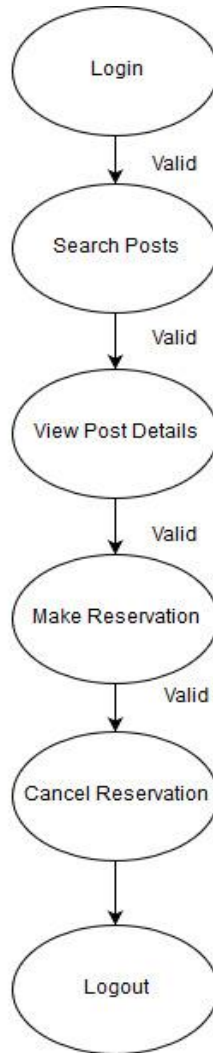
Login



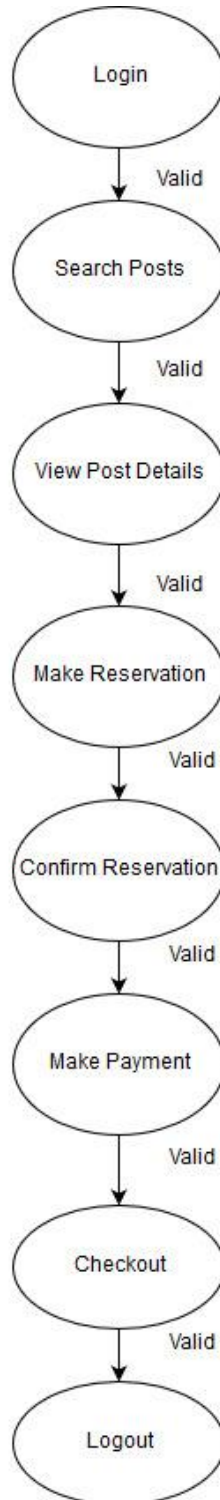
Make Reservation



Cancel Reservation



Confirm Reservation



6.4. Unit testing

Unit testing is a white-box testing technique. The main consideration in this test is verification of all modules of the software system. Each module is unit tested, as follows:

- Unit testing for the project User Management is tested by valid user or invalid user.
- Unit testing for the project User Account management is provided by testing Login, Logout and creating new or deleting updating existing user.
- Unit testing for the project articles details is performed by entering new information.
- Unit testing for the Project Detail of items give detail accurately.
- Unit testing for the module Add/update/delete post.

System Unit Testing		
System Unit Name	Testing Method	Test Result
Registration Form	Manual Testing on localhost	Pass
Login Form	Manual Testing on localhost	Pass
Account Recovery	Manual Testing on localhost	Fail
Post Add Form	Manual Testing on localhost	Pass
View Post Details	Manual Testing on localhost	Pass
Make Reservation	Manual Testing on localhost	Pass
Edit/ Delete Post	Manual Testing on localhost	Pass
Edit/Delete Account	Manual Testing on localhost	Pass
Admin Panel	Manual Testing on localhost	Pass

6.5. Integration testing

Integration testing is the technique for testing the interfaces of software components. Each software components in unit tested, and all the components are integrated to perform together. The tests are conducted to ensure that the components are working properly after interfacing.

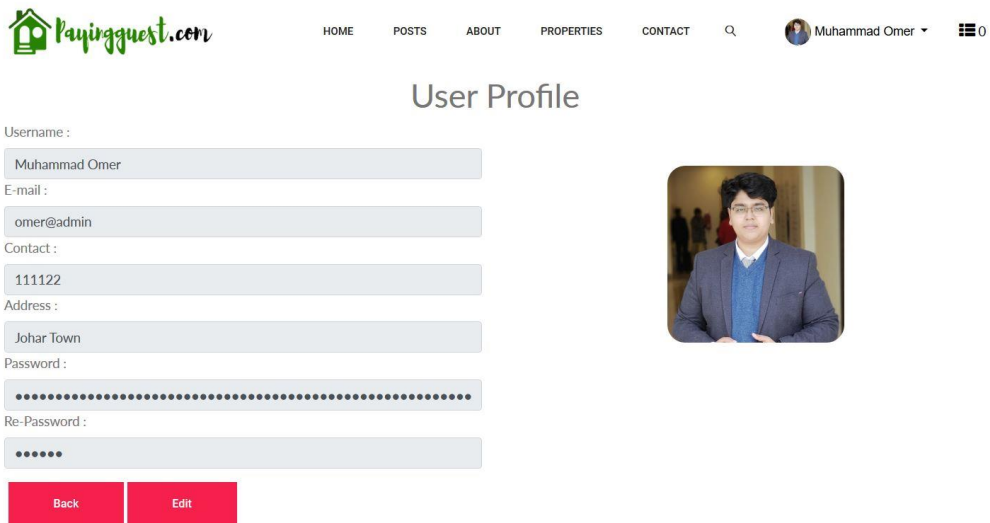
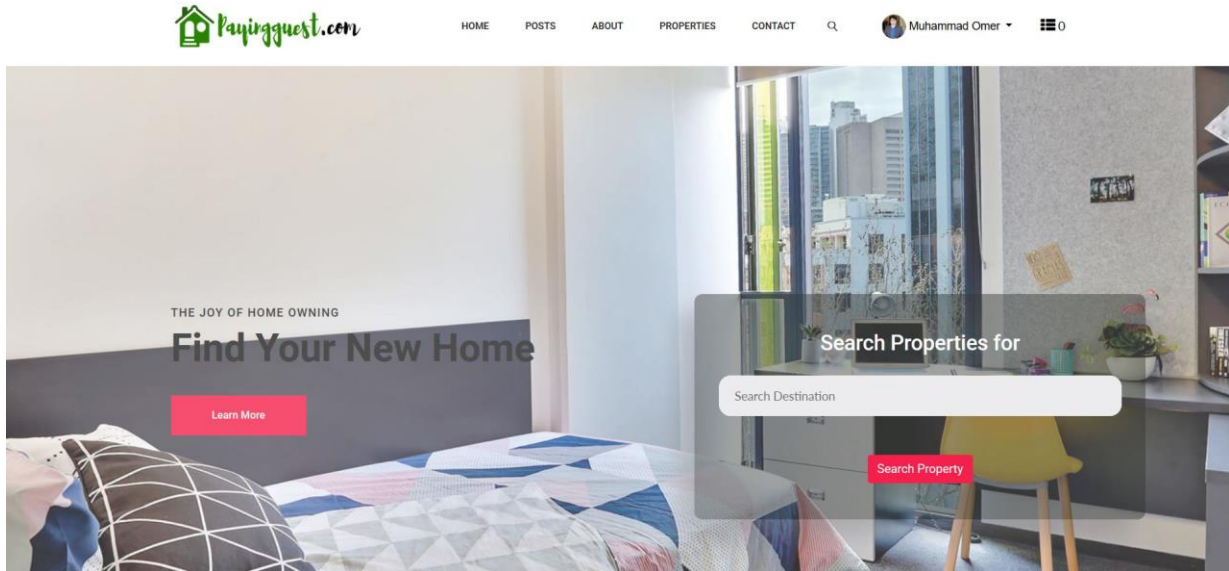
All modules are integrated by an incremental approach, and integration testing of the system is performed as follows:

- Integrate login module and test that the software is properly connected to the database.
- Integrate all modules and test by inserting updating, and deleting records.

6.6. Data flow testing

Dataflow Testing		
Data Unit Name	Testing Method	Test Result
Registration	Interface→mysql Database, msql Database→Interface	Pass
Login	Interface→mysql Database, msql Database→Interface	Pass
Account Recovery	Interface→mysql Database, msql Database→Interface	Fail
Post Add Form	Interface→mysql Database, msql Database→Interface	Pass
View Post Details	Interface→mysql Database, msql Database→Interface	Pass
Make Reservation	Interface→mysql Database, msql Database→Interface	Pass
Edit/ Delete Post	Interface→mysql Database, msql Database→Interface	Pass
Edit/Delete Account	Interface→mysql Database, msql Database→Interface	Pass
Admin Panel	Interface→mysql Database, msql Database→Interface	Pass

6.7. Screenshots of System



Our Top Rated Properties

All rooms with top rated and client reviews on Payingguest.com



Furnished Room

2 Bed

1 Bath

Medium Room

Kitchen

Garage

Lahore

1300 Pkr/Night

[View Details](#)



Master Room

2 Bed

1 Bath

Master Room

Kitchen

Garage

Islamabad

1500 Pkr/Night

[View Details](#)



Big Nice Room

1 Bed

1 Bath

Lower Portion

Kitchen

Garage

Peshawar

123 Pkr/Night

[View Details](#)

My All Adds

All rooms with top rated and client reviews on Payingguest.com



Big room with Kitchen

1 Bed

1 Bath

Master Room

Kitchen

Garage

Lahore

800 Pkr/Night

[Edit](#) [Delete](#)

[View Details](#)



Room available nice view

1 Bed

1 Bath

Medium Room

Kitchen

Garage

Karachi

900 Pkr/Night

[Edit](#) [Delete](#)

[View Details](#)



Rooms, **Medium Room**
Portion, House

Furnished Room

Very secure Area,Deluxe room very cooperative rate,suitable for Families,and For couples,first of call for information

Ammar Rajpoot

2019-05-30 10:48:52

JoharTown

3 Comments

1300-PKR

2 Bed	1 Bath	Medium Room
Kitchen	Garage	



Post Reviews



Wasif Rasheed
2019-06-13 22:05:02

Nice view room and Very comfortable and friendly envriment!



Omer Irfan
2019-06-16 17:44:23

Happy :) Good and Very comfortable and friendly envriment!

Leave a Comment

Post a comment

Post Comment

Detail Post



Ammar Rajpoot
Super Class Host





Boot camps have its supporters andit detractors. Some people do not understand why you should have to spend money on boot camp when you can get. Boot camps have itsupport ters andits detractors.

Make Reservation

<i>Check In</i> mm / dd / yyyy	<i>Check Out</i> mm / dd / yyyy
Book Now	

Reservation Details

Post ID:	Host Name:					
Post	Price	Check-In	Check-Out	Subtotal	Days	Action
	1300	06 / 19 / 2019	06 / 26 / 2019	9100 Pkr	+7	

Furnished Room

Very secure Area,Deluxe room very cooperative rate,suitable for Families,and For couples,first of call for information

Sub Total : 9100 Pkr

Payingguest : 0.0 Pkr

Total : 9100 Pkr

[< Back to Post](#)

[Confirm Reseration >](#)

[Add more rooms for reservation](#)

Payment Details



CARD NUMBER

Valid Card Number



EXPIRATIONEXP DATE

MM / YY

CV CODE

CVC

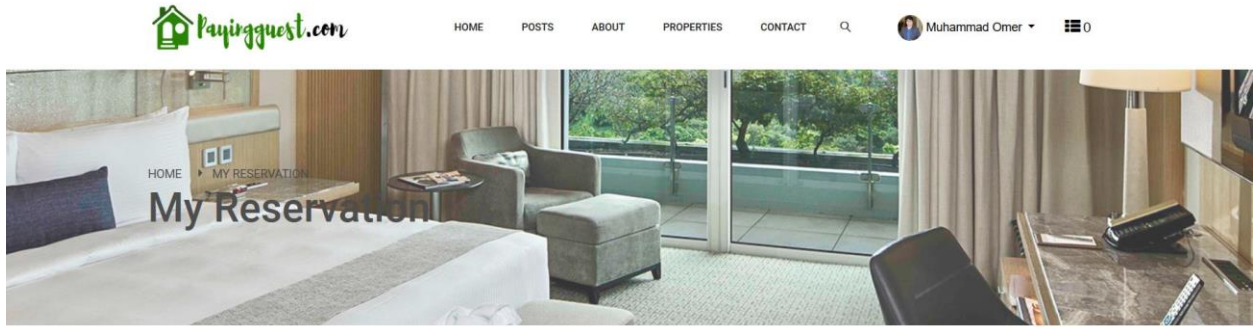
CARD OWNER

Card Owner Names

[Process payment](#)



[Checkout](#)



My Reservation



Master Room | Reserve ID #13

Nice Rom. Very secure Area,Deluxe room very cooperative rate...

Guest ID # 32 | Guest Name: Muhammad Omer

Category	Price
Master Room	1500-Pkr

Invoice



Payingguest.com
G2 Wapda Town, Lahore.
(+92) 336-4699844
payingguest@gmail.com

INVOICE TO:
Muhammad Omer
Jahar Town
omer@admin

INVOICE

Id#	DESCRIPTION	Category	PRICE-Pkr	CHECK-IN	CHECK-OUT	DAYS	TOTAL
13	Master Room Nice Rom. Very secure Area,Deluxe room very cooperative rate...	Master Room	1500	2019-06-07	2019-06-21	+14	21000 -Pkr
						SUBTOTAL	21000 -Pkr
						Payingguest	0.0 -Pkr
						GRAND TOTAL	21000 -Pkr

Thank you!

Invoice was created on a computer and is valid without the signature and seal.

Admin Panel, Dashboard for Payingguest

#	User Id	Post Title	Post Description	Post Image	Post Category	Location	City	Contact	Post Price	Kitchen	Garage	Beds	Baths	Action
10	36	Furnished Room	Very secure Area,Deluxe room very cooperative rate ,suitable for Families,and For couples,first of call for information		Medium Room	JoharTown	Lahore	213423	1300	Yes	Yes	2	1	Delete/Edit
11	38	Master Room	Nice Rom. Very secure Area,Deluxe room very cooperative rate...		Master Room	Wapda Town	Islamabad	1231213	1500	Yes	Yes	2	1	Delete/Edit
16	36	Big Nice Room	Room availabe with nice view and attach bath and kitchen at good price.		Lower Portion	Wapda	Peshawar	123333	123	Yes	Yes	1	1	Delete/Edit
17	38	Huge Room with Nice view	Big nice room nice view and kitchen		Upper Portion	Jhoar Town	Lahore	6665555	1200	Yes	No	1	1	Delete/Edit
18	32	Big room with Kitchen	Beautiful big room with kitchen and washroom		Master Room	Model Town	Lahore	2223344	800	Yes	No	1	1	Delete/Edit
19	32	Room availabe nice view	Room availabe with nice view and attach bath and kitchen at good price.		Medium Room	DHA Phase 1	Karachi	4445666	900	Yes	Yes	1	1	Delete/Edit

Chapter 7

Summary, Conclusion and Future Enhancements

Chapter 7: Summary, Conclusion & Future Enhancements

7.1. Project Summary

In Final Year Project We are developing a web-based application with some astounding highlights. The primary thought is that it is a Website named as Payingguest.com. Payingguest.com venture helps the clients in finding house rooms in different cities when they want to travel or make tour plans. The fundamental reason for this venture is to help the client to effectively and to provide feasibility as it is the world of technology. A majority of unpleasant issues faced by landlords and tenants seem to grow due to lack of communication. Fortunately, building a positive relationship doesn't take much effort and it all starts with one basic idea "communication". Rental Property Management Software provides the solution by offering the ability to share issues between tenants and landlords which leads to rapid issue resolution and fewer misunderstanding. The goal of the software is to create a better relationship between tenants and landlord. The Rental Property Management Software is designed to support both tenants and landlords by enabling them to document and communicate their issues in regards. It helps the tenant with making Payments and it also helps the Landlord to keep track of issues posted by tenants. Effectively resolving the apartment issues is important to the tenant's long-term future and the Rental Property Management Software(payingguest.com) will be an important tool for creating rental housing stability by helping tenants speak with greater credibility through initiating and documenting communications and building productive relationships with landlords. In this manner a person can rent a room as per night bases according to his feasibility.

7.2. Achievements and Improvements

Payingguest.com is the online rental website where user search different posts of room and select different posts only in one website. This project has great future scope. Payingguest.com is online room rental system where user easily search adds of rooms and make reservation sit in the front of computer and received confirmation through easy steps.

The purpose of this project is to present an efficient, reliable online room rental management system and make reservation efficient and effective. The achievements that we have made is that we are providing a platform especially for travelers and tourists to view posts and make online reservations and plan their trip easily.

7.3. Lessons Learnt

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using HTML & CSS and PHP Laravel Framework, usage of responsive

templates, designing of responsive website, and management of database using MySQL. The entire system is secured. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

7.4. Future Enhancements/Recommendations

In future the project will be updated with to top most methodology and with the passage of time new advancement will be mad in it and kept in knowledge. Stay aware of patterns and advancements in online industry, watch out for the opposition and receive new innovation.

Reference and Bibliography

Reference and Bibliography

- [1] P. T. S. J. Joseph, **2006, E-Commerce: An Indian Perspective 4 Edition 4th Edition**
- [2] Shiven Dragupta, 2014, Introduction [online]. Available.
[https://www.slideshare.net/shivendragupta55/trustbuilding factors-in-ecommerce industry](https://www.slideshare.net/shivendragupta55/trustbuilding-factors-in-ecommerce-industry)
2014, Flowchart [online]. Available.
<https://code2flow.com/app>
- [3] 2014, summery, [online]. Available.
https://www.bplans.com/hydroponics_farm_business_plan/executive_summary_fc.php
re
- [4] By Ulf Eriksson 28th September 2012, Test case [online].
Available.[https://reqtest.com/tutorials/how-to-develop-a template-for-testcases/diagram-templates-to-instantly-view-object-interactions-free/](https://reqtest.com/tutorials/how-to-develop-a-template-for-testcases/diagram-templates-to-instantly-view-object-interactions-free/)
- [5] 2016 Wiring Diagram, Network Diagram [online]. Available
<http://collagenrestores.com/basic-network-diagram-example-image/physical-network-diagram-quickly-create-professional-physical-4/>
- [6] 2018,Diagram Build Tool, [online]. Available
<http://www.draw.io>
- [7] Stack Overflow. (2019). Stack Overflow - Where Developers Learn, Share, & Build Careers. [online] Available at: <https://stackoverflow.com/> [Accessed 15 May 2019].
- [8] W3schools.com. (2019). W3Schools Online Web Tutorials. [online] Available at: <https://www.w3schools.com/> [Accessed 15 May 2019].
- [9] Boggiano, J. (2019). *Packagist*. [online] Packagist.org. Available at: <https://packagist.org/> [Accessed 15 May 2019].