



Tribhuvan University
Faculties of Humanities and Social Sciences

ONLINE ROOM RENTAL SYSTEM
PROJECT REPORT

Submitted to
Department of Computer Application
Ratna Rajyalaxmi Campus
Pradarsani Marg, Kathmandu

In partial fulfillment of the requirements for the Bachelors in Computer Application

Submitted by
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Under the Supervision of
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Tribhuvan University
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SUPERVISOR'S RECOMMENDATION

Thereby recommend that this project prepared under my supervision by **Ujjwal Thakuri** and **Sushrab Sharma** entitled “**ONLINE ROOM RENTAL SYSTEM SYSTEM**” in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

SIGNATURE

Mr. Bhoj Raj Joshi

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Tribhuvan University
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LETTER OF APPROVAL

This is to certify that this project prepared by **Ujjwal Thakuri** and **Sushrab Sharma** entitled “**ONLINE ROOM RENTAL SYSTEM**” in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated.

In our opinion it is satisfactory in the scope and quality as a project for the required degree.

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ABSTRACT

The ONLINE ROOM RENTAL system is a web-based application that could be useful for user to find rent on online. This system is developed from the both (renter and owner) prospective which makes easier for renter to search room and owner to post their property for rent. Now a days people visit door to door in search of rental property which is very difficult also time consuming for people. Also, most people don't have faith on internet. To eliminate such problem, we are trying to make this system saving peoples energy and time consumed while searching room. Renter can search for room on the basis of address where owner can post their property with the address and price of their house room per month. Here we have used waterfall model which is helping us in the development of the system. This model has made us easier in the developing the system. The system provides users with the ability to register for using system, view room of different location. The tools and technology used in this system are HTML, CSS JS, PHP and MYSQL. The system has three types of users: Admin, House owner and Renter. Administrators can manage user data, information regarding their role. Our renter can book the room, cancel it, add the booking, update their information. Our system is designed to be user-friendly and easy to use. It provides users with a streamlined process for managing their information, making it a valuable tool for both user and administrators.

Keywords: ONLINE ROOM TENTAL SYSTEM, web-based application, CRUD, User-friendly;

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LIST OF ABBREVIATIONS

CSS	Cascade Style Sheet
DFD	Data Flow Diagram
ER	Entity Relationship
FR	Functional Requirement
SYSTEM	ONLINE ROOM RENTAL SYSTEM System
HTML	Hypertext Markup Language
MYSQL	My Structured Query Language
PHP	Hypertext Preprocessor.
UC	Use Case

CHAPTER 1: INTRODUCTION

1.1. Introduction

A web-based Online room rental system is a digital platform developed to provide convenient and efficient solution for the user (house owner and renter). It offers individuals to access online renting system where they can post house room for rent as well as book those house room on rent.

The Online Room Rental System is a web-based platform designed to simplify and streamline the process of renting accommodation. Users can access a variety of resources, such as finding room (also renting their room) through their web browser helping renter not to go door to door for searching room. These platforms may offer a room option according to the location they are looking for. Users can choose and customize their booking of room according to their preference.

1.2. Problem statement

In the present providing house room on rent by owner and taking house room on rent by renter seem to be very difficult due to the lack of online system or knowledge of system. So we define our problem statement as:

The problem statement for a ONLINE ROOM RENTAL SYSTEM in Nepal is that many people don't know there exist online property (room, house, land) dealing system. In the context of Nepal many people usually don't have faith on the online system. People prefer to consult with broker rather than such system. There is a lack of efficient and modern systems for managing users, which leads to several issues such as lack of proper planning and control, difficulty in tracking payments and poor communication between house owners and their renter. Most of the house owner don't keep the record of their renter because of which renter ran away without paying rent also the renter has to go door to door for searching the room on rent which is a very bad experience in Nepal. There is no provision of fixed rent price of a room whenever owner like they raise the price of a room. Therefore, there is a need for building faith between owner and renter which can be done by such system.

1.3. Objective

Some objective of ONLINE ROOM RENTAL SYSTEM are as follow:

- To find the room online for renter.

- To develop a system that allows users to add, edit and delete their booking and posting of room.

1.4. Scope and Limitation

1.4.1 Scope of System

- House owner can post their house room for renting;
- Admin can manage data of users.
-

1.4.2 Limitation of Existing System

Some common limitations that may be associated with Online room rental systems in the context of Nepal are:

- Many people doesn't know how to use such system.
- Poor service which leads to lack of faith on such system.

1.5. Report Organization

Chapter 1 includes introduction of the system ONLINE ROOM RENTAL SYSTEM System with its problem of statement, objective and its scope and limitation.

Chapter 2 includes the background study of ONLINE ROOM RENTAL SYSTEM System and some literature review of other ONLINE ROOM RENTAL SYSTEM System systems.

Chapter 3 includes the functional and non-functional requirements along with feasibility Analysis and architectural design of the ONLINE ROOM RENTAL SYSTEM System.

Chapter 4 includes the tools used in this system and the testing that is done.

Chapter 5 includes about the outcome of this system as well as the future recommendations for the ONLINE ROOM RENTAL system.

CHAPTER 2: BACKGROUND STUDY AND LITERATURE REVIEW

2.1. Background Study

An Online Room Rental System is a system application and web portal designed to reshape the conventional pattern of rental solution. It provides tools and features that helps house owner to put their house room on rent and renter to search and book the room from the available property. By study the challenges faced by both house owner and renter is very crucial. It is important to consider security and privacy concerns when designing or using our online system. Study topics such as data encryption, secure authentication, and compliance with data protection regulations. Analyze existing online room rental systems, both commercial and research-based. Examine case studies, academic papers, and industry reports to gain insights into successful implementations, user feedback, and areas of improvement. Our room rental system has been prepared from user perspective making the system user friendly and trust worthy. In the previous system, no records were secured because not even a paper work was there, and even if the paper work was done it has got no value, so to avoid all of these problems, this online room rental system project was created. In renting system, it is necessary to have a system that can easily handle details while it could also provide user security. It also necessitates the use of software that stores information about both parties (house owner and renter) which will minimize the chance of fraud. This is a very useful and beneficial system. Over the years, the number of people keep migration from urban area to city area has steadily increased. Because of this people are having problem in searching the place where they can live. To minimized problem in searching room there is a need of specialized software. Technological advancements, particularly in the areas of cloud computing, mobile app development, and online payment processing, have simplified the creation and implementation of online room rental systems. With the development of such system people will be more familiar to technology making them easier in living their life.

2.2. Literature Review

In the context of Nepal Garbheti is a web portal designed to reshape the conventional pattern of rental and real estate solution for building, flat, room, space, apartment, hostel and land all around the Nepal. In it the property is displayed in categorical list where client can search the property. The list is regularly updated by their marketing team; also encourages and advocates property owner to post through online with detail information of property. They offers client to set preferences for location as well as budget, as per their need. [1]

Booking.com is another popular platform where people can not only book the things like travel tickets, and other it also helps in booking the house room even for a day. The site is very popular site which can be helpful for property renting like house, house room land and so on [2]. The J&B Makelaars is another website that provides the comprehensive real estate

service tailored specifically in Netherlands. The system helps their client to find next home easily and confidently. They claim themselves as their client expert property broker that understands how to handle their clients [3]. Spacest.com is an amazing website that helps the users to find property not only in a limited place but in any part of the world. This site has used the smartest tools that are built by the brightest minds in engineering, design and strategy which can be very useful in building system making the system user friendly. The main goal of their system is to change the way customers navigate the process of finding a home. This site can be used for finding home not only for the purpose of renting but also for buying them [4]. Similarly, in Nepal there is another website called kothabhada. Through this website user can search for any rental property or post if for rent and user can also book a vehicle to move home to office. The main advantage of this website(kothabhada) is that if other user tries to tell another user a fake post, the second user can alert the system team or admin and also all the website customer through the open chat room where ever user can see the message written by a particular user. Their main purpose of creating this open chat room is to facilitate communication between buyers, sellers and this platform. The user even can ask question to the admin i.e. the main advantage of this website is that there is easy communication among the users also with system team which leads to minimizing the chance of fraud. [5]

In overall, each of these websites contains some special feature and each of these has been helping people in finding shelter.

CHAPTER 3: SYSTEM ANALYSIS AND DESIGN

3.1. System Analysis

The system analysis of the system is done by conducting requirement analysis, feasibility analysis, data modeling, and process modeling as follows:

3.1.1. Requirement Analysis

Functional Requirement

A Functional Requirement is an outline of the service that the ONLINE ROOM RENTAL SYSTEM must offer. Features the system must provide are refined into use case diagrams.

To best capture the functional requirements of the system.

Use Case

The figure 3.1 is the use case diagram of the ONLINE ROOM RENTAL SYSTEM. There are two actors User and Admin.

- The admin is able to manage their users.
- An Admin is able to view the form filled up by the new user.
- An Admin is able to login through their email and password
- A user is able to login through their email and password.
- An admin is able to manage database.
- An admin and users is able to update their profile info.

Use Case Diagram

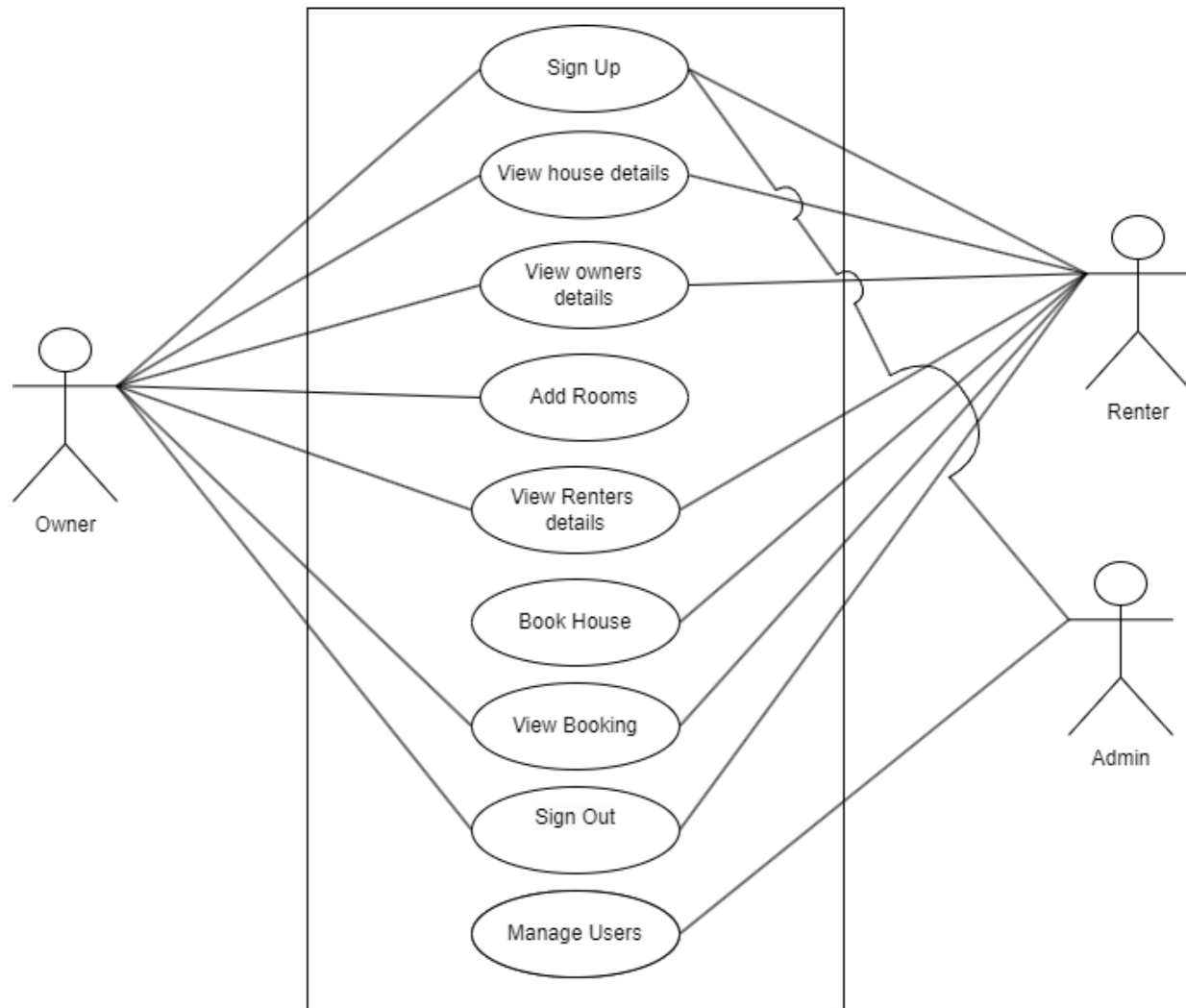


Fig 3. 1 Use Case Diagram of SYSTEM

Non-Functional Requirements

- **Performance Requirement:** The performance of the ONLINE ROOM RENTAL SYSTEM will highly depend on the performance of the hardware and software components of the installed devices
- **Usability Requirement:** This system is very easy to use as it is written using basic html, CSS, Java script and Php.
- **Environmental Requirement:** The system shall require a localhost server, database server, and a web browser to run successfully.

- **Compatibility Requirement:** The system is compatible across all platforms under the required environment.
- **Security Requirement:** Every user shall have a unique password while logging into the system which make is more secure.

3.1.2. Feasibility Analysis

The feasibility analysis of ONLINE ROOM RENTAL SYSTEM is done by measuring the following feasibilities, which are explained as follows:

- **Technical :**

- The system can be implemented in various technologies presently available and in all technologies that will be implemented in the future.

- **Operational:**

This project is feasible to operate as the current mode of operation provides adequate throughput and response.

- **Economic:**

The system is economically feasible as no cost is required in any part of the system.

Schedule Feasibility:

Here is the Gantt chart showing the probability of the project being completed within its scheduled time limits by a planned due date.

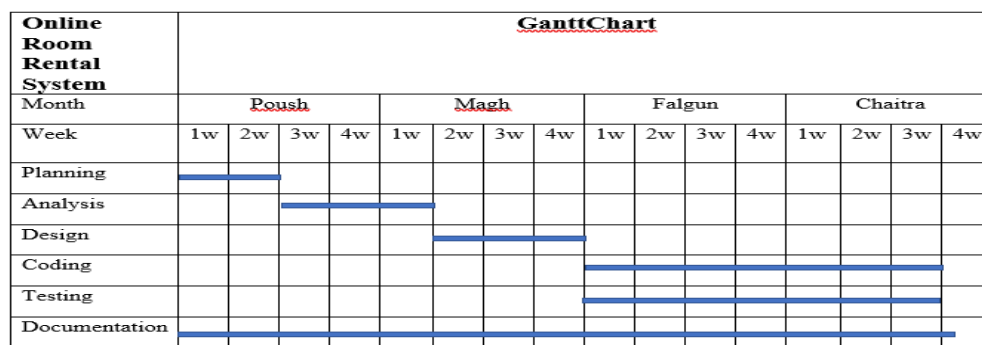


Fig 3. 2 Gantt chart of SYSTEM

3.1.3. Data Modeling (ER-Diagram)

Entity-Relationship Diagram of our proposed system (ONLINE ROOM RENTAL SYSTEM System) is shown below. Here, Admin manages subscription category, users, routine, subscription track, and enrollment. User choose categories, view routine and track their

usership expiry. Each entity has its own primary key. For example admin has aid, user has mid, routine has rid.

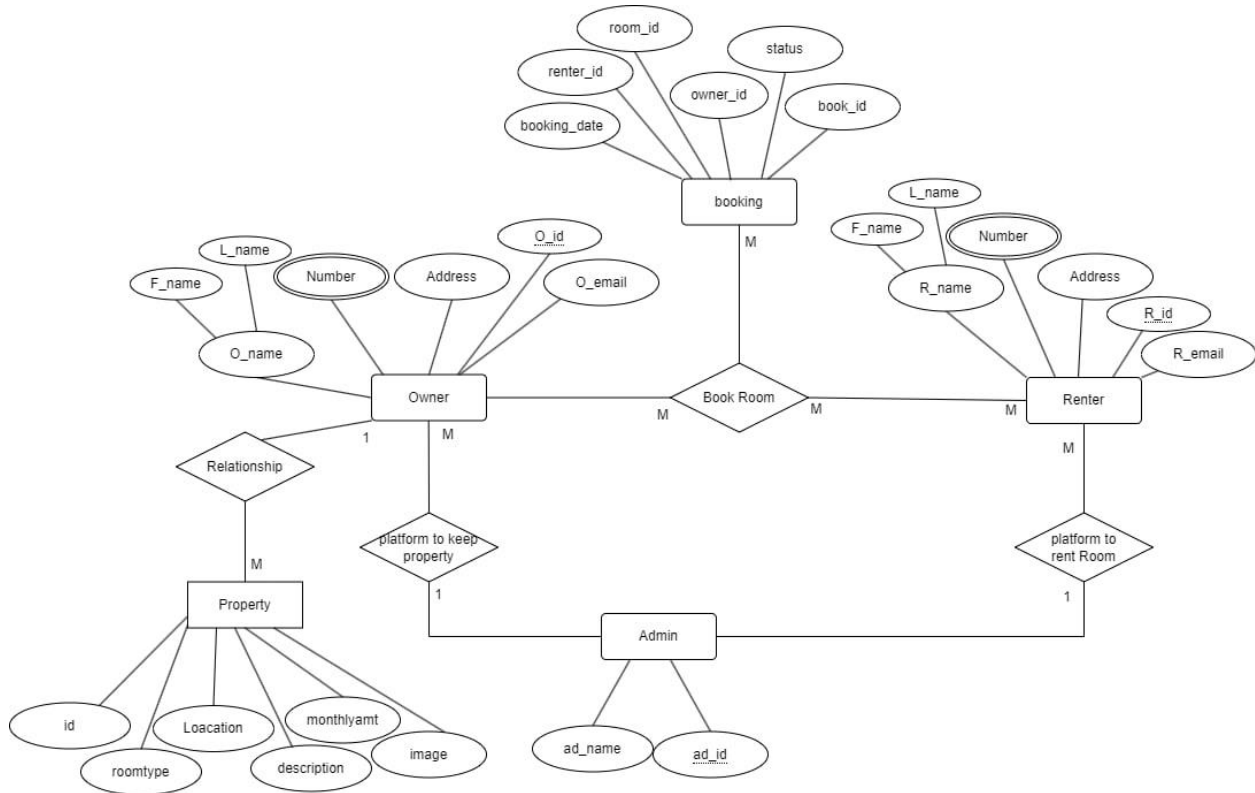


Fig 3. 3 ER Diagram of SYSTEM

3.1.4 Process Modeling

For process modeling of ONLINE ROOM RENTAL SYSTEM System, context diagram and DFD level 1 are as follows:

Context Level Diagram

The figure 3.4 is also known as context level diagram. It's a basic overview of the whole system or process being designed. The above context level diagram shows the basic overview of "SYSTEM: ONLINE ROOM RENTAL SYSTEM System". Here users shall register into the system by filling there basic information which is then stored in database. Then user shall be able to login with there credentials. Users shal be able to select a subscription category/plan and also obtain payment information and routine information. Admin shall

manage users, categories, and payments, as well as retrieve user, category and payment information.

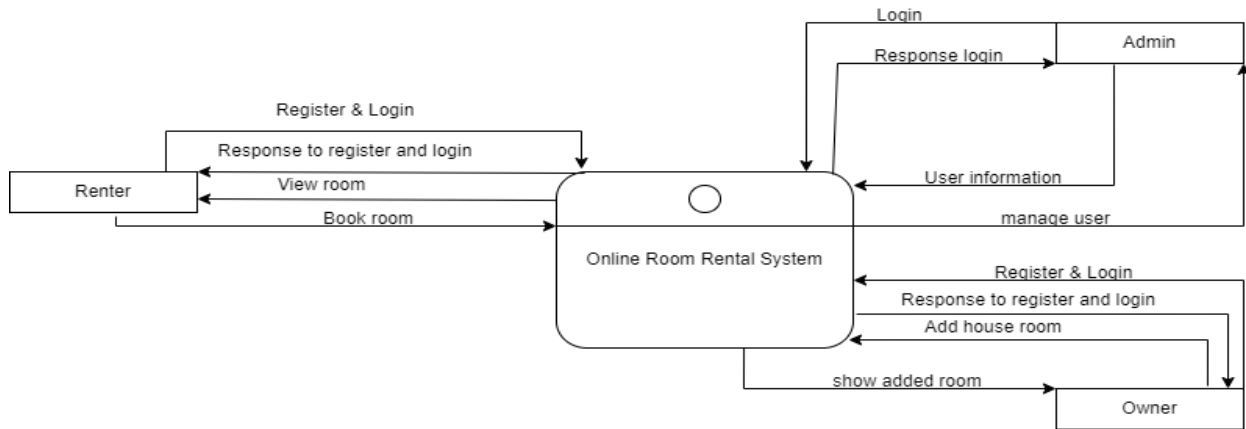


Fig 3. 4 Context Level Diagram of SYSTEM

DFD Level 1

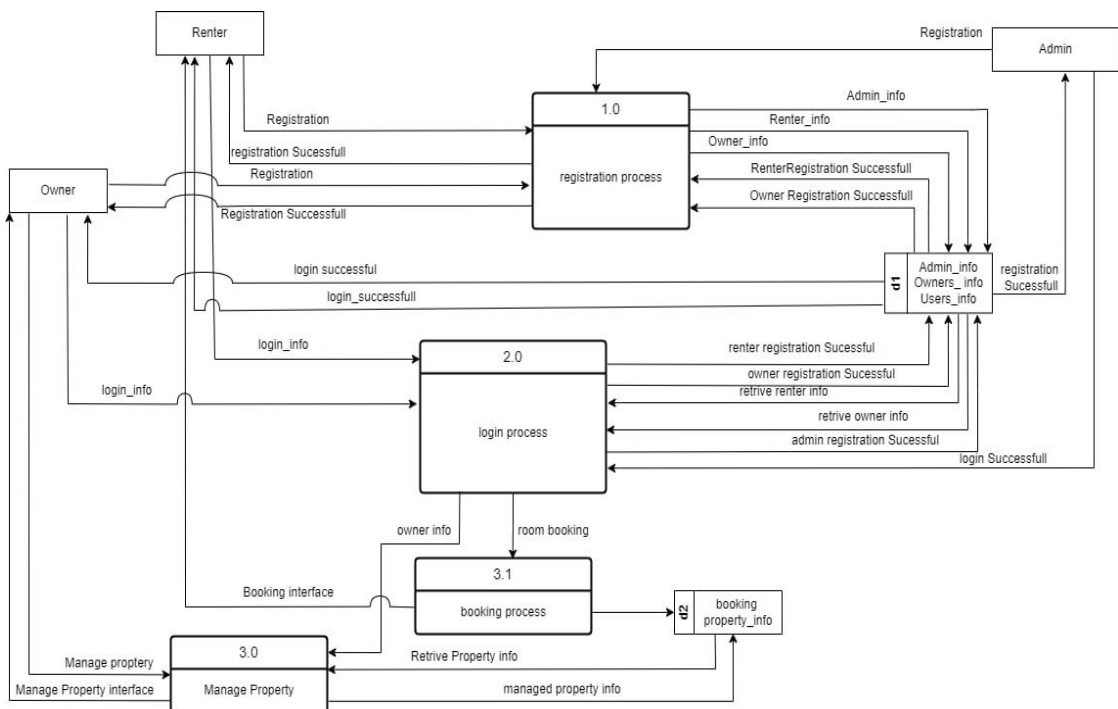


Fig 3. 5 DFD Level 1 of SYSTEM

The figure 3.5 provides a more detailed breakout of pieces of context level diagram. The above DFD provides the detail information of the context level diagram of " SYSTEM: ONLINE ROOM RENTAL SYSTEM System ". The diagram shows that the user shall register into the system and register user should login into the system through login and register management. User users' details are managed through the user management process by admin.

3.2. System Design

The system design of ONLINE ROOM RENTAL SYSTEM System consists of architectural design, database schema design, user interface design, and physical DFD are shown as follows:

3.2.1. Architectural Design

The figure 3.6 represents the architectural design of the SYSTEM: ONLINE ROOM RENTAL SYSTEM System. There are two modules in the system. i.e., User and Admin. User shall register themselves into the system by filling up the necessary details and those details are saved in the user table of the database. Admin shall provide routine on the basis of user requests and manage categories. User shall view the routine provided by the admin. Similarly, admin shall login to the system and manage the user data, payment information and enrollment.

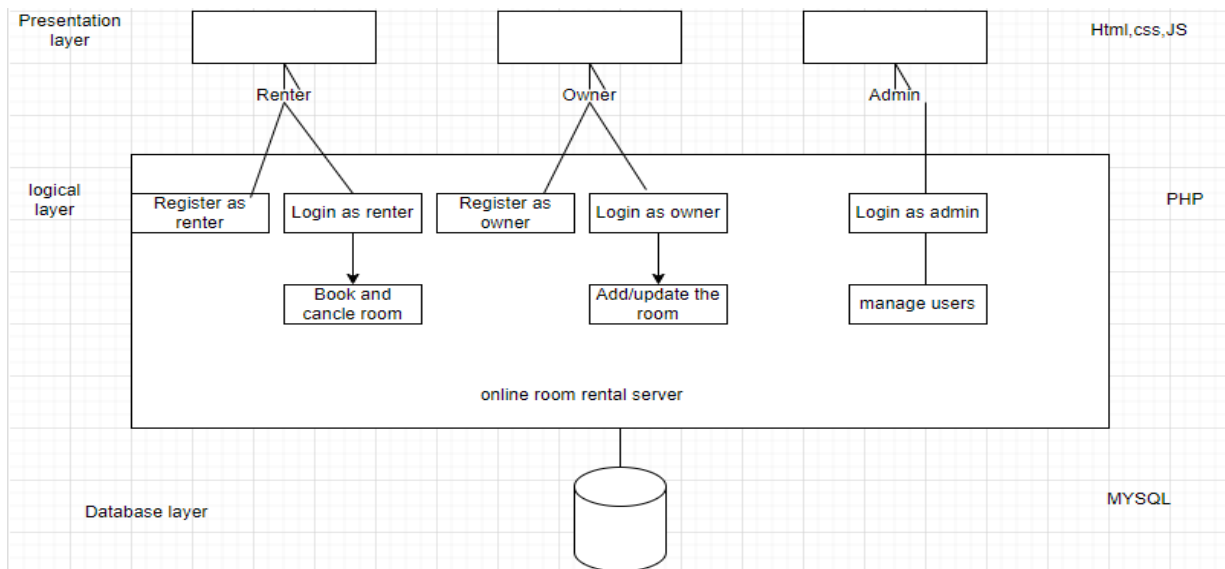


Fig 3. 6 Architecture Design of SYSTEM

3.2.2. Database Schema Design

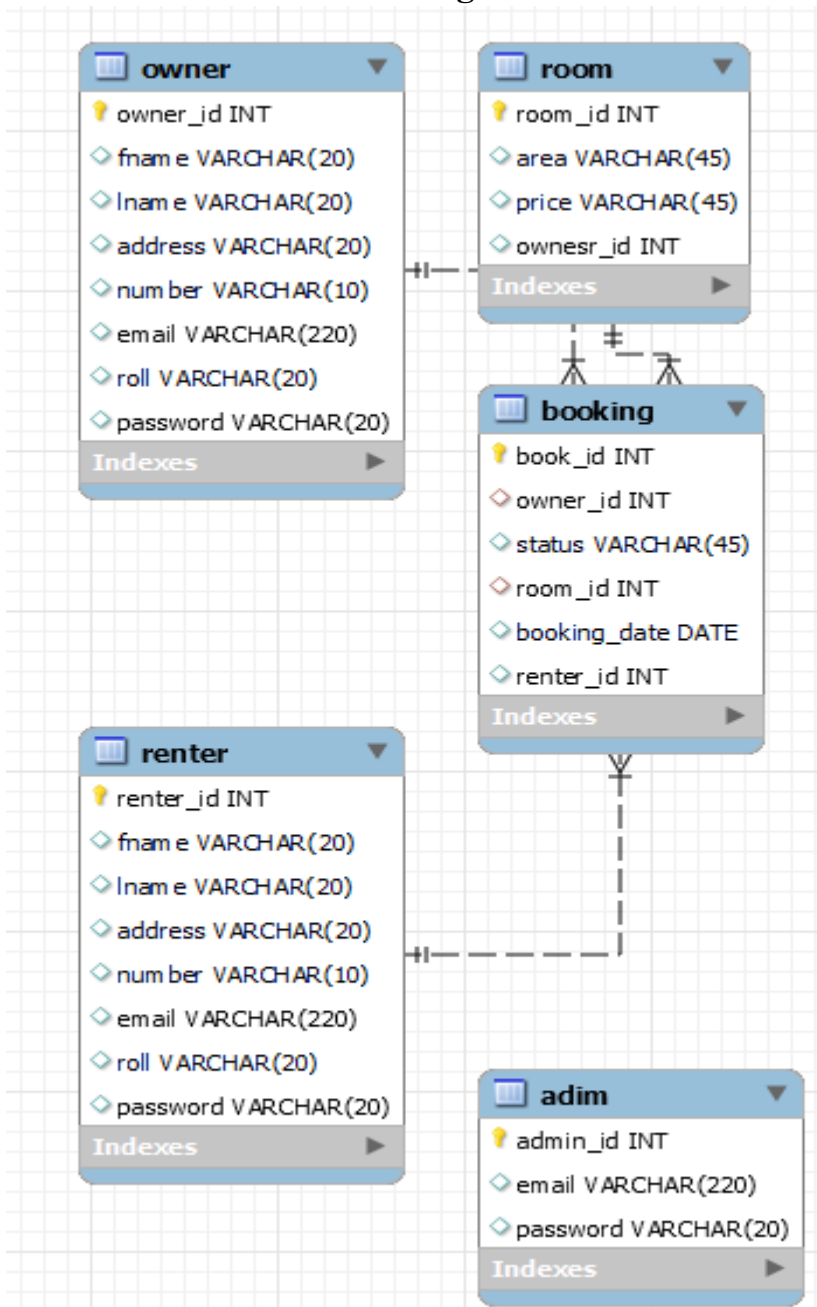


Fig 3. 7 Database Schema Design of SYSTEM

The figure 3.7 represents the database schema of the SYSTEM: ONLINE ROOM RENTAL SYSTEM System showing all the relations along with their respective attributes and inter-relationship between the relations.

3.2.4. Physical DFD

The Physical DFD of our proposed system (ONLINE ROOM RENTAL SYSTEM System) is given below. A Physical Data Flow Diagram (DFD) visually illustrates how data moves within a system at a detailed, physical level. A detailed physical data flow diagram can facilitate the development of the code needed to implement a data system.

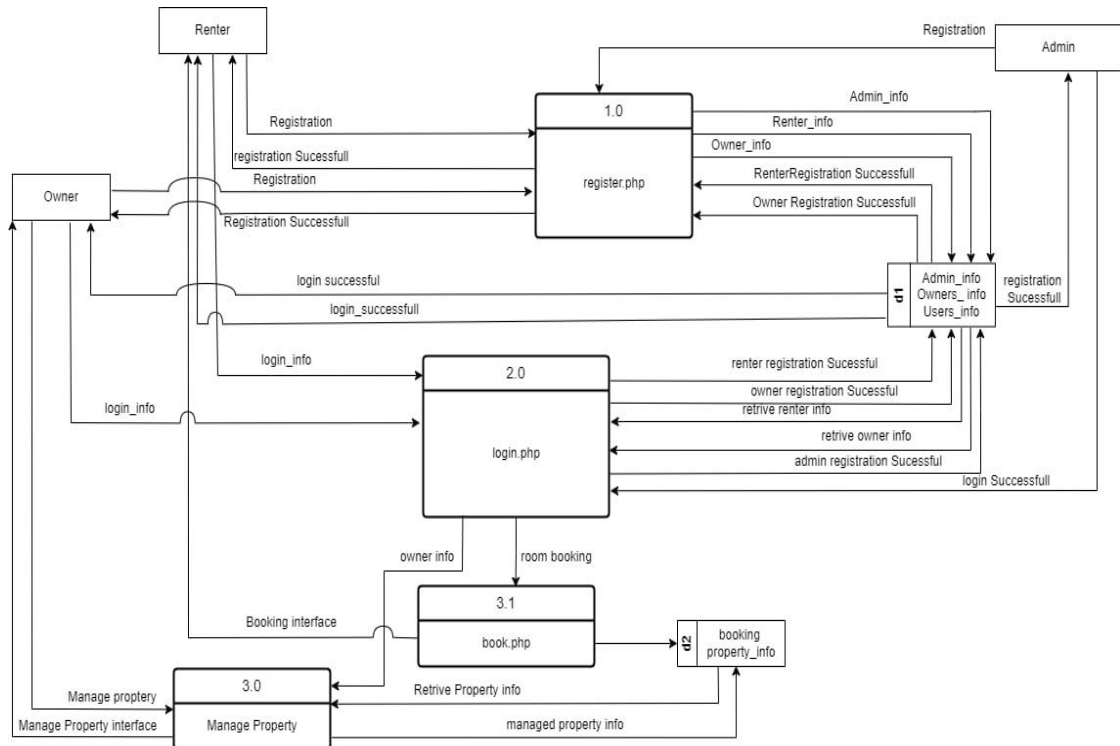


Fig 3. 11 Physical DFD of SYSTEM

CHAPTER 4: IMPLEMENTATION AND TESTING

4.1. Implementation

The tools and techniques used to implement the system and the implementation details of various modules of ONLINE ROOM RENTAL SYSTEM are as follows:

4.1.1. Tools Used (CASE tool, Programming Languages, Data Platforms)

The tools used for the implementation of ONLINE ROOM RENTAL SYSTEM are listed below: **Draw.io**

Draw.io is an online diagram editor constructed around google drive. Using draw.io we have been capable of creating UML diagrams, entity relations diagrams, and plenty more. One of the benefits of draw.io is that it stores the information in google drive, consequently, there's no need for an extra third party.

HTML CSS & JavaScript

HTML, CSS, and JavaScript were used for the front-end development. HTML was used for the web page elements. CSS was used to provide styling to the components. JavaScript was used for client-side validations to the Website.

PHP

PHP is a widely-used, open-source server-side scripting language. It is included with database called MySQL, and its usage has helped us add, delete, and modify elements inside our database via PHP.

MySQL

MySQL is the world's most popular open-source database. MySQL powers many of the most accessed application including Facebook, Netflix Uber and so on. It became extensively utilized to carry out numerous activities like insertion, deletion, and update of the records saved in the database.

Visual Studio Code

Visual Studio Code is a free coding editor that helps you start coding quickly. Use it in any programming language, without switching editors. It has support of many languages also available for Window, macOS and Linux.

4.1.2. Implementation Details of Modules (Description of Procedures / functions)

The major function module of ONLINE ROOM RENTAL SYSTEM and their implementation is shown in the figure below:

1. Register module

Here the user has to fill up all the necessary details about themselves to get registered. These data gathered are first validated and then stored into the database using SQL query. After the registration the registered user shall log into the system by providing email and password which is identical to the email and password stored into the database.

```
$sql = "INSERT INTO crud (fname, lname, address, number, email, role, password) VALUES ('$fname', '$lname', '$address', '$number', '$email', '$role', '$password')";
```

2. Login module

Here this module comes to work only after the user has register with the system. If a user has already registered, he or she can explore the system

```
$sql="select * from crud where email='$email' and password='$password'";
```

3. For Editing User Detail Module

This module is used to update the existing user into the system. Here the user has to update all the necessary details. The data gathered are first validated and then updated into a database using SQL query.

```
$sql = "UPDATE crud SET id=$id, fname='$fname', lname='$lname', address='$address', number='$number',email='$email', roll='$roll', password='$password' WHERE mid='$mid'";
```

For Deleting user Detail Module

This module is used to delete the data of existing user into the system.

```
$sql = "DELETE FROM crud WHERE id='$id'";
```

For View all Users Detail

This module is used to view the total user details which are existing into the system.


```
$sql = "select * from crud";
```

4.2. Testing

The testing section is used to see whether our system is able for carrying out those function for which it has been developed or not.

4.2.1. Test Cases for Unit Testing

Unit testing is a type of software testing that focuses on individual units or components of a software system. The purpose of unit testing is to validate that each unit of the software works as intended and meets the requirements: **Table 1 Test Case 0001 Registration**

S.N.	Test Case	Input	Expected Outcome	outcome
1	Navigate to registration page	Path : http://localhost/semproject/sem/Register.html	registration page should open	As Expected i.e. User is navigated to sign in page of system
2	Provide own details	First name: Last name: Address: Mobile No: Email: User Role: Password: Confirm Password:	Credential can be entered	As expected
3	Click on Submit button	clicked	User should be registered.	As expected.
Post-conditions: Register successful				

Table 2 Test Case 002Registration Unsuccessful

S.N.	Test Case	Input	Expected Outcome	outcome
1	Whenever the Name field (first name and last namr) or address field containsa number or a symbol	Eg: Ujjwal123@	Display error message.	Error message is displayed.
2	If the name contains more than 20 alphabets	Eg: Ujjekakdasfkdklklff fjkasdklfj	Display error message.	Error message is displayed.
3	if the mobile number is less than or more than ten numbers long and contains any alphabets	Eg: 98u2123456d12	Display error message.	Error message is displayed.

4	if an invalid email address is entered	Eg: Ujj@jkafhkjk	Display message: Output.	Error	Error message is displayed.
5	if the password length is less than 8 characters	Eg: u34t	Display message: Output.	Error	Error message is displayed.
7	if the password and confirmation password do not match		Display message.	error	Error message is displayed.
8	if all or any the field are left empty		Display error message		Error message is displayed.
Post-condition :Sign Up Failed					

Table 3 Test Case 003 Login

Pre-conditions: The user has a valid email and password.
Dependencies: Login module

S.N	Test Case	Input	Expected Outcome	outcome
1	Navigate to login page	Path: http://localhost/semproject/sem/owner.html	Login page should open	As Expected i.e. User is navigated to Login page of system
2	Correct email and password	User must login successfully	User logged into the system	As Expected i.e. User was able to access the services provided by the system
3	Incorrect email but correct password	User must not login	User was not logged into the system	User was not able to access the services provided by the system
4	Correct email but incorrect password	User must not login	User was not logged into the system	User was not able to access the services provided by the system
Post-conditions: User is validated with database and successfully login into SYSTEM				

Table 4 Test Case 004 Add Category

Pre-conditions: Admin is login into ONLINE ROOM RENTAL SYSTEM

Dependencies: login module				
S.N.	Test Case	Input	Expected Outcome	Output
1	Navigate to category page	Path: http://localhost/sempr object/sem/admin.html.	Admin Home page should open	As expected
2	Click Add Button	Button click	Form page should open	As expected i.e. admin is send to the reg. form
4	Data insertion	Click on the submit	Admin should be able to add a new user into the system	As Expected i.e. Admin can add the New user
Post-conditions The new users information is successfully inserted into the database.				

4.2.2. Test Case for System Testing

System Testing is a form of software testing that is executed on a complete integrated system to assess the compliance of the system with the corresponding requirements.

Table 5 Test Case 005 System Test

Pre-conditions: Admin is login into ONLINE ROOM RENTAL SYSTEM System

SN	Test case	Input	Expected outcome	Output
1	Check with admin login	email:admin46@gmail.com password:lkjhgfdsa	Successful login	Open dashboard
3	Check with add user	New user should be added.	Successful added user	Inserted data.
4	Check with delete and edit user	Click edit or delete button	Must be edited or deleted	Edit and delete messages should be displayed successfully.
5	Check with logout	Click logout button	Successfully logout	Redirect to login

CHAPTER 5: CONCLUSION AND FUTURE RECOMMENDATIONS

5.1. Outcome

The expected outcome of our online room booking system is making the system user friendly, more secure, faster responsive time and cost effective.

5.2. Concussion

In the conclusion our ONLINE ROOM RENTAL SYSTEM provides an easy access to helping the people migrating from one place to another in searching of room on rent where they can live. It can be important web-portal where people can easily see the room on rent. It can be user friendly for both parties(owner as well as renter). This technology makes possible for house owner to keep their house room on rent and renter to search room. Also makes possibilities of conversation between house owner and renter saving the time of both parties. The ONLINE ROOM RENTAL SYSTEM provides users with simplicity and transparency.

5.3. Future Recommendations

The following section describes the work that will be implemented with future software releases.

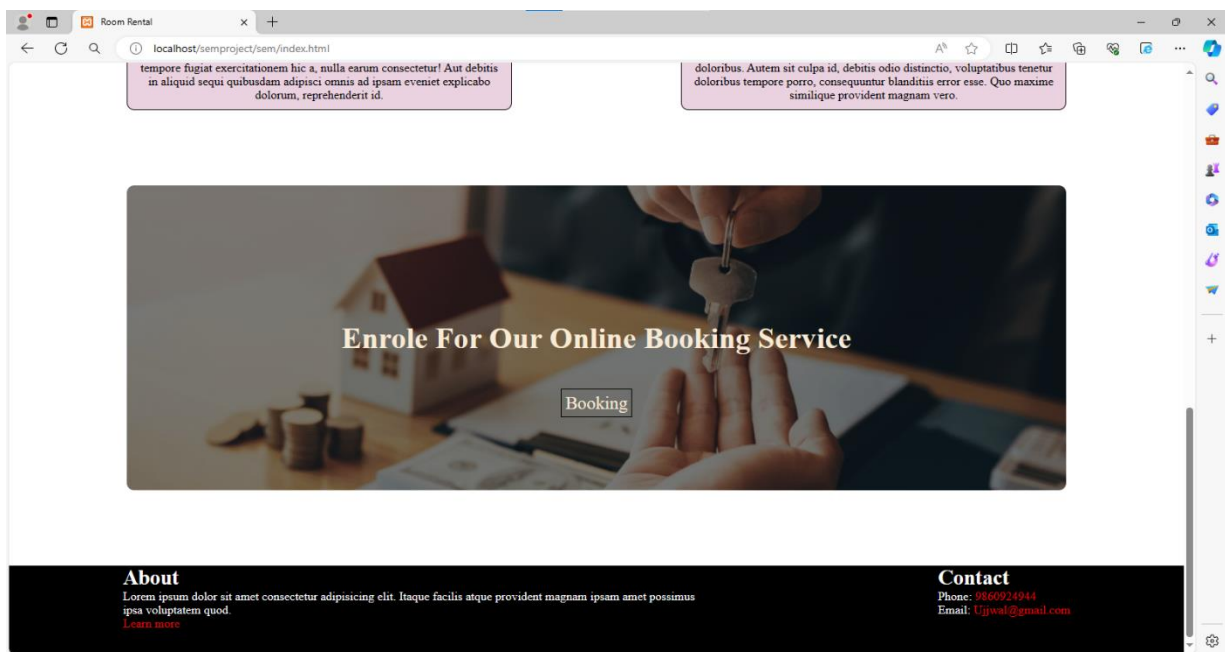
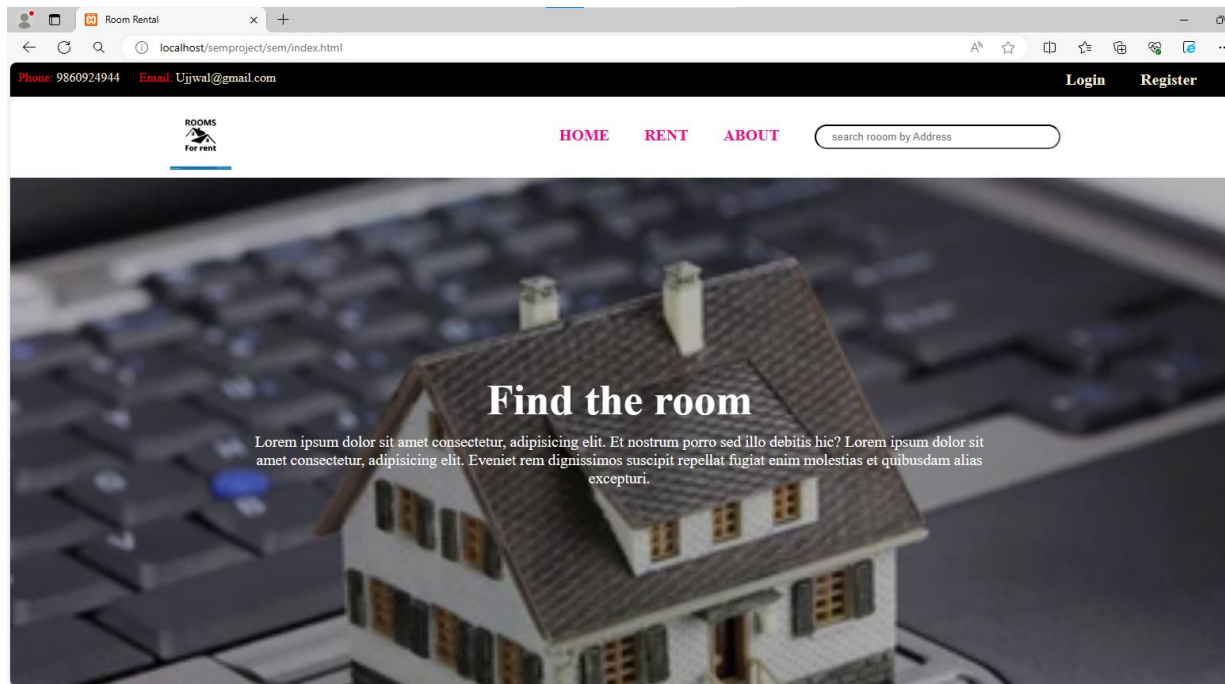
- Allowing renter to pay and received by user through online.
- Adding more properties like selling
- Also, could add gallery and other page;
- Adding broker commission as well
- Allowing renter to book other properties on rent as well..
- Enhance the user interface by incorporating more interactive features

References

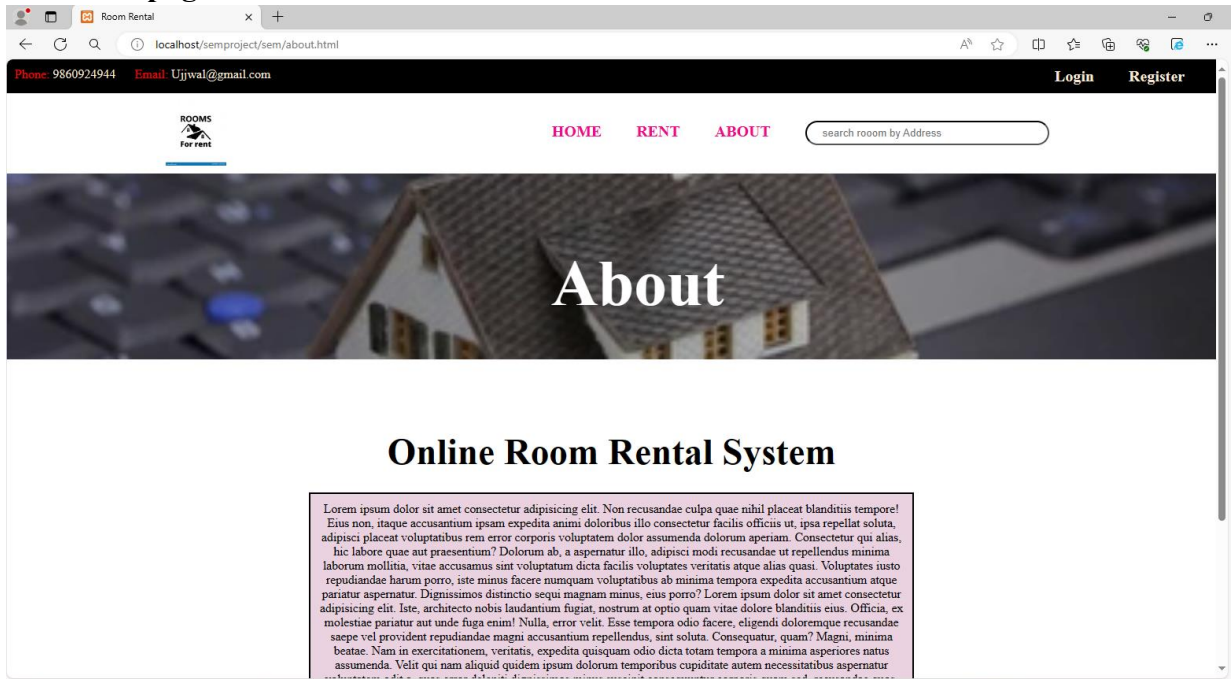
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APPENDICES

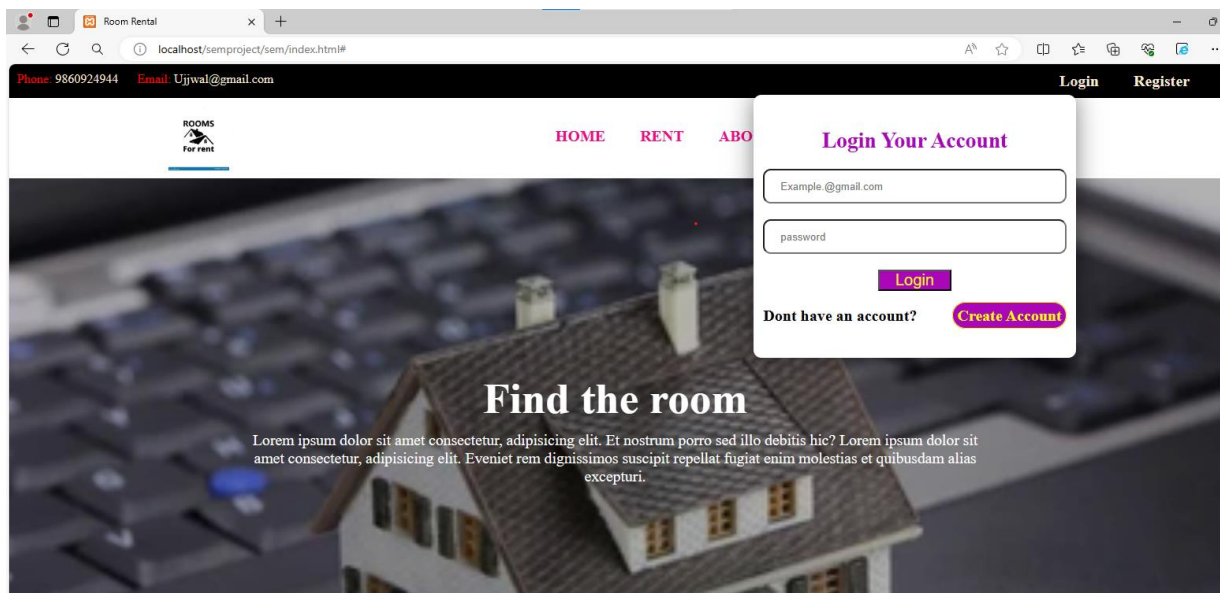
1. User Home Page



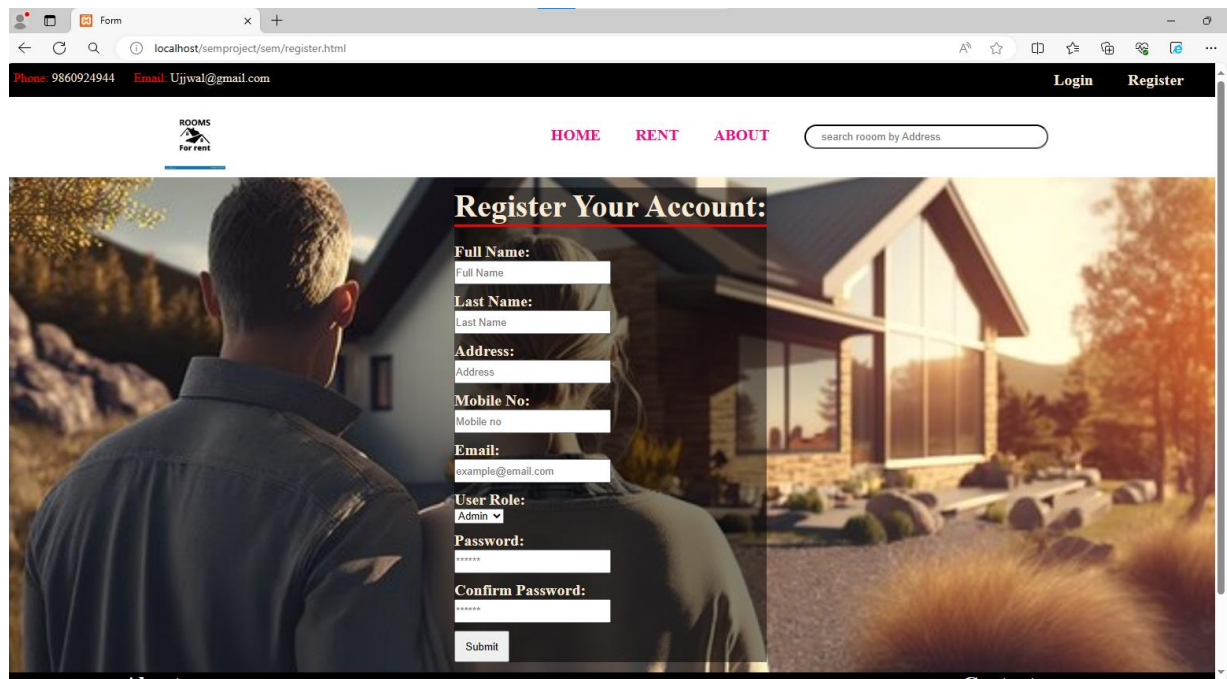
2. About page



3. User Login page



4. User Register page



The screenshot shows a web browser window with the URL `localhost/semproject/sem/register.html`. The page has a dark header with contact information (Phone: 9860924944, Email: Ujjwal@gmail.com) and navigation links (Login, Register). Below the header is a navigation bar with links (HOME, RENT, ABOUT) and a search bar (search room by Address). The main content area features a background image of a person looking at a house. Overlaid on this is a registration form titled "Register Your Account:". The form includes fields for Full Name, Last Name, Address, Mobile No, Email, User Role (Admin), Password, and Confirm Password, followed by a Submit button.

Phone: 9860924944 Email: Ujjwal@gmail.com

ROOMS For rent

HOME RENT ABOUT search room by Address

Register Your Account:

Full Name:

Last Name:

Address:

Mobile No:

Email:

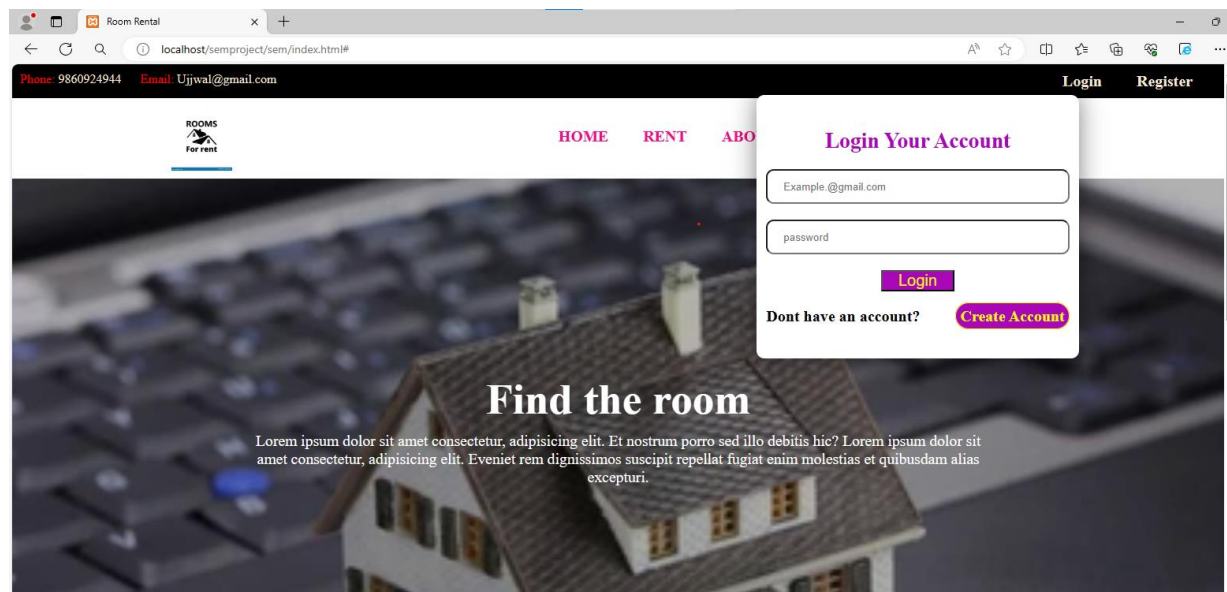
User Role: Admin

Password:

Confirm Password:

Submit

5. Admin Login Page



The screenshot shows a web browser window with the URL `localhost/semproject/sem/index.html#`. The page has a dark header with contact information (Phone: 9860924944, Email: Ujjwal@gmail.com) and navigation links (Login, Register). Below the header is a navigation bar with links (HOME, RENT, ABOUT). The main content area features a background image of a house. Overlaid on this is a login form titled "Login Your Account". The form includes fields for Email (Example@gmail.com) and password, followed by a Login button. Below the login button is a link "Dont have an account?" and a "Create Account" button. The background image also contains the text "Find the room" and a paragraph of Lorem Ipsum text.

Phone: 9860924944 Email: Ujjwal@gmail.com

ROOMS For rent

HOME RENT ABOUT

Login Your Account

Example@gmail.com

password

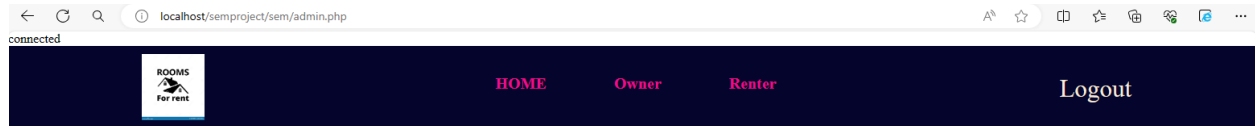
Login

Dont have an account? Create Account

Find the room

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Et nostrum porro sed illo debitis hic? Lorem ipsum dolor sit amet consectetur, adipisicing elit. Eveniet rem dignissimos suscipit repellat fugiat enim molestias et quibusdam alias excepturi.

6. Admin dashboard



[Add User](#)

id	First Name	Last Name	Address	Number	Email	User Role	Password	Operation
11	Ujjwal	Thakuri	Budhanilkantha	9860924944	Ujjwalthakuri46@gmail.com	0	UjjwalThauriRRclz	Update Delete
13	Udip	Thakuri	KTM	9880959499	Udipthakuri09@gmail.com	1	0987654321q	Update Delete
15	shiva	Hari	PHK	9087461700	shivahari@gmail.com	1	lkjhgfdasz	Update Delete
16	Krishna	Tamang	Chakrapath	9670956738	Krish@gmail.com	1	zxcvbnmlpo	Update Delete