

TO-LET MANAGEMENT SYSTEM

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

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APPROVAL

This Project titled “**To-Let Management System,**” submitted by Rubel Hosen, ID No: 142-15-3537, Nasir Uddin, ID No: 142-15-4081 and Shahinur Rahman, ID No: 142-15-4090 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree Bachelor of Science (B.Sc) in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 6th May 2018.

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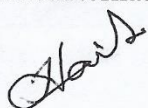
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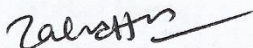
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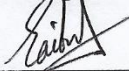
We hereby declare that, this project has been done by us under the supervision of Mr. Raja Tariqul Hasan Tusher, Lecturer, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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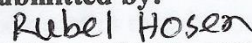
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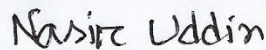


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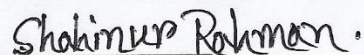
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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

This project deals with the online house rent for the people. The major goal of this system is to reduce the time that we waste for searching of our better houses. This system makes an interaction between all house owners and house tenants in a portal. As a result the people can get their house without going outside. The work of the people will become very easier and hassle free by the proposed system. They can find their suitable house from any place of the country without hampering their other activities.

On the other hand, anyone can find their desired options through an advanced search. The ads will be posted on the web application; anyone can browse them via location or category, can also see the photos of the home if posted by the owner. It saves valuable time as well as money for those people who wants to rent any home, office or rent related other services. To implement this system we use HTML, CSS, PHP, JAVASCRIPT,WordPressand MYSQL etc. There is also a future plan for making mobile apps for it where owners will be managing there profile, clients or tenants will be browsing the ads as well as searching and categorizing the ads.

There are many scopes for further improvement and enhancement into the house rent portal system. The contents of the application can be healthier by evolving more information and adding more houses with satisfying various constraints of house tenant.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

This is such a system which can provide house rent facility to the students, bachelors, other peoples. The “Online House Rent” is such a system, which can provide the facilities from any place with very low cost. This system is very much efficient and effective because it is fully automated.

Our main aim to build a complete “To-Let Management System” successfully which will be fully automated online house rent system with very low cost. This system will ensure that they can get their house without going to the house physically.

1.2 Motivation

In the case of reality of Bangladesh rental system, everybody search the rent manually but most of educated person are used to internet. So, we believe that there is a demand for an online system that answers customers query related finding flat and other type of accommodation. Information and data searching online has become increasingly popular over the last few years. Everyone used to feel comfort to collect information by using online. But they do not get the user friendly rental system for rent of all kinds of accommodation. So we made “To-Let Management System” where every person can getting all kinds of accommodation information for rent using internet browsing of our site.

1.3 Objectives

The objectives of the proposed system are as follows:

- The Admin should have all the type of authority.
- To deal with Online System in an easy way and efficient mannered.

- Finding out a better solution than the existing one.
- Analyzing the problems of the present systems.
- Exploring existing application.
- Designing and implementing a complete, reliable and effective online house rent system.
- Construct the whole project plan.
- Designing the database.
- Determine the customized software to be used.
- Prepare the whole project (Coding phase).
- Testing properly before releasing the software.
- Recheck and repair (if necessary) any part of the proposed system before going for the final entrance..

1.4 Expected Outcome

This application will provide user an excellent services. The user can see the accommodation address and location. They can see what kind of services are offering the service providers. User can contact the service provider or send text message. There have many outcome such as:

- Money and time will be save.
- User can easily find out the information.
- Reduce harassment .
- It help's to find out a suitable apartment .
- No need physical movement to search house owner of tenant.

1.5Report Layout

Main goal of this work is to find out the present house rent problem and find a better solution for the problems. The report arranges as follows,

- Chapter one discusses the introductory parts of the project.
- Chapter two discusses about background.
- Chapter three discusses about requirement specification.
- Chapter four contains the design specification.
- Chapter five discuss about implementation and testing.
- Chapter six discuss about Conclusion and Future Scope.

CHAPTER 2

BACKGROUND

2.1 Introduction

Bangladesh is one of the most populated country. There are many cities such as Dhaka, Chattogram. With respect to Dhaka this is a most populated city and it is the center of national government, trade, and culture. It is also the 4th most densely populated city in the world. In 2016, the estimated population was about 1.80 crores. That people need accommodation. But this system is manual so that it is so tough to find out a flat or apartment and it's killed our money and time to find out a house manually.

We live in a digitalized world. Though there are many ways we can do this. But there is no popular application that can provide information about accommodation. Our application will try to fill this gap. Our application will provide all the information and assistance to the user to find out a suitable accommodation. User can get all kinds of flat/apartment information and confirm booking all of this from a single application.

2.2 Related Works

Lamudi Bangladesh is a web software and is designed to help search house for sale and rent. This website mainly used for developer for his/her own construction buildings for sale and rent. Here developer company directly involved for rent and sell. This website only for using house rent but user want a site which provide all rent services.

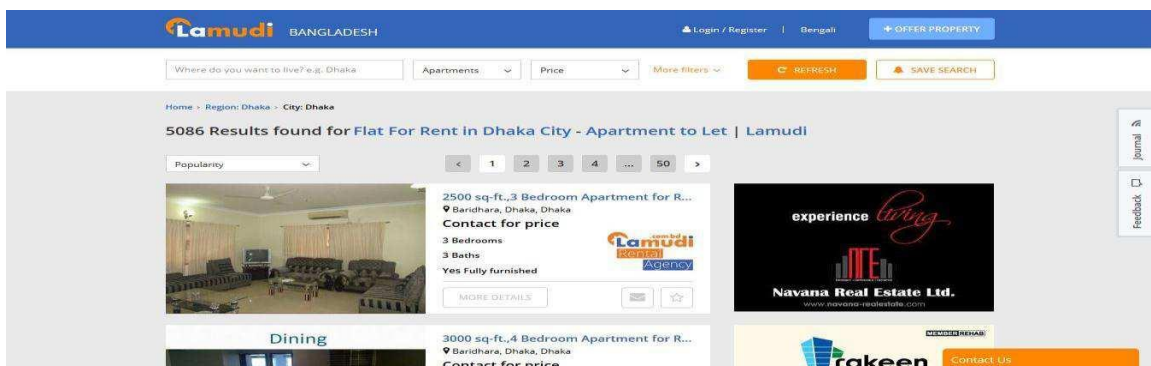


Figure 2.1: Lamudi Bangladesh website

2.3 Comparative Studies

Our implemented website is different from the existing website's. Every users can't post ads for every renting product. Every people getting all kinds of rent information using this websites. The proposed rental system maintenance is easier for users. It is not delay it is process it is very faster system and user friendly. Users easily registration and create her/his profile, login. This online rental system provides any kind of house rent also customer would be able to easily find or choose rent information. Example House, Apartment, Sublet, Bachelor house.

2.4 Scope of the Problem

- It is an open platform where all users can interact easily.
- Users can easily create account and log in then they can get access.
- Admin can distributes all users access for ads post and view.
- Users can't post ads and need to information search for rent.

2.5 Challenges

- Admin has to define users can get access or not.
- Admin maintain the whole database and save to unauthorized access.
- Individual post are shown to all.
- There are no privacy level when it comes to posting or submitting assignments.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling

Business Process Model and Notation (BPMN) is the global standard for process Modeling and one of the most important components of successful Business-IT Alignment. We used this method to describe our processes. In this project there are two business process model. Both of them are provided in the Following diagram.

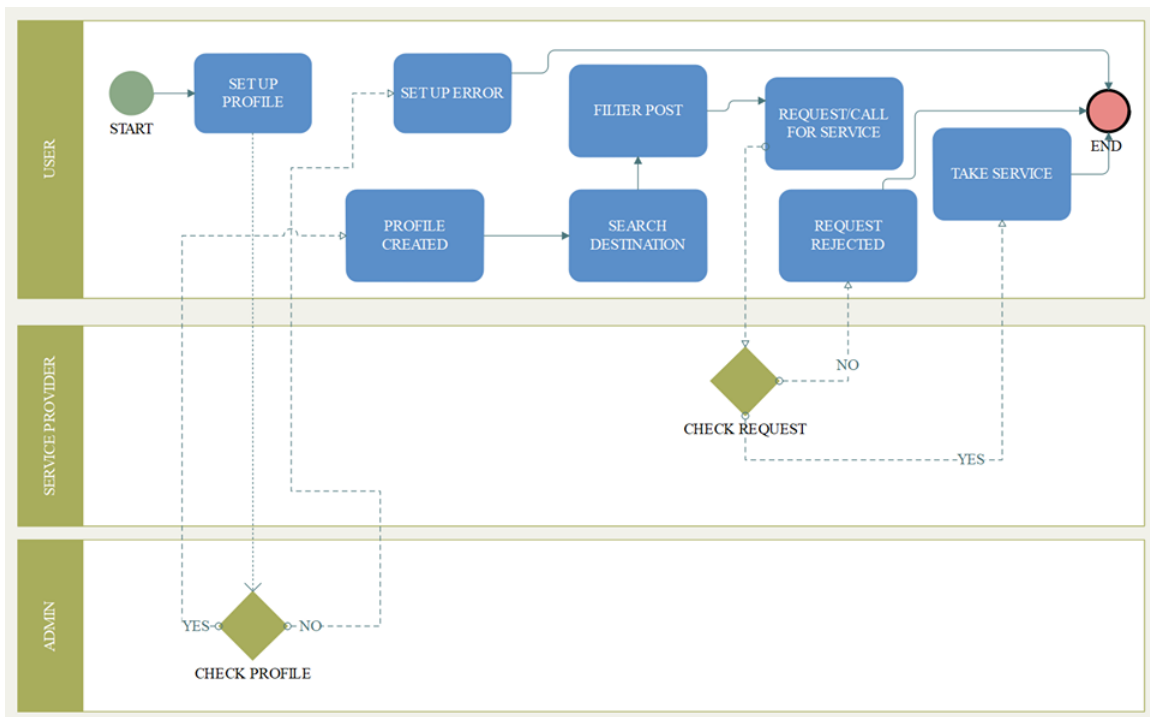


Figure 3.1: Business process model

3.2 Requirement Collection and Analysis

There are some basic requirements collected during implementation of the software and also in the data collection. Here are some given below

Needed to edit the blog post information.

- View the single blog post.
- Specify the users post separately.
- Needed to a create account for log in.
- Needed a valid email to reset the password and further actions.
- Admin needed the access to delete and add post.
- User needed his/her post access to edit and delete post.

3.3 Use Case Modeling and Description

Use Cases are typically related to 'actors'. An actor is a human or machine entity that interacts with the system to perform meaningful work. In our Project there are three actors. They are

- Admin
- House owner
- Customers

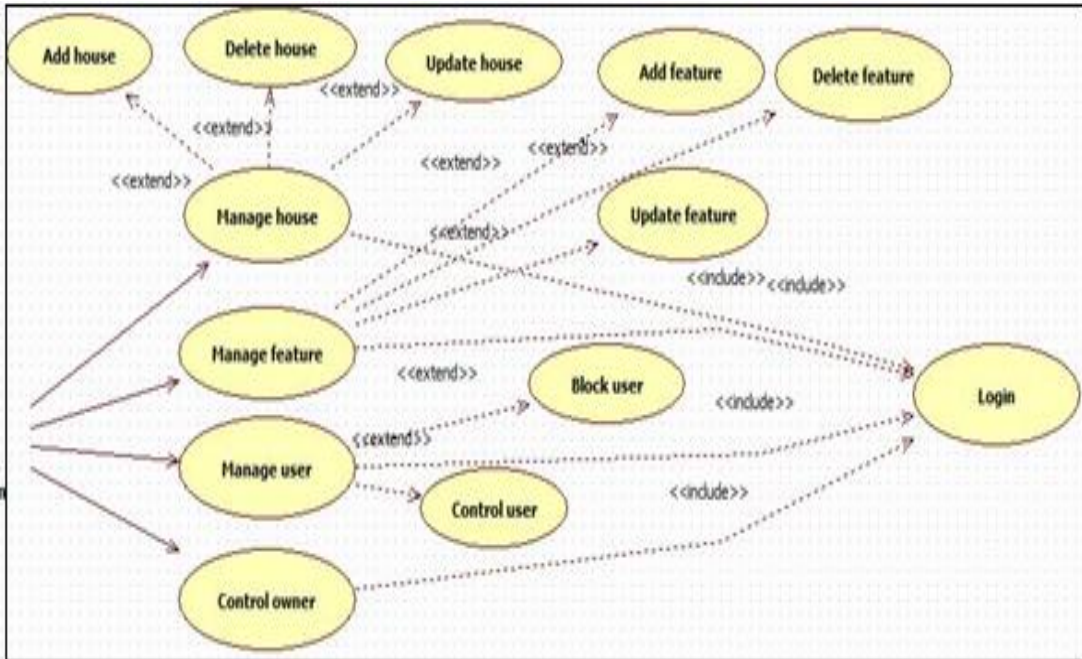


Figure 3.2: Admin Use Case Diagrams

Table 3.1: Use case description of admin(Login)

Use case name	Login
Precondition	None
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Enter email address • Enter password • Click on login
Exceptional path	Mandatory fields are missing, Show “Login failed”

Table 3.2: Use case description of admin(Manage house)

Use case name	Mange houses
Precondition	Login
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Add houses • Delete houses • Update houses
Exceptional path	Mandatory fields are missing, Show “Required”.

Table 3.3: Use case description of admin(Add house)

Use case name	Add house
Precondition	Login
Actor	Admin
PrimaryPath	<ul style="list-style-type: none"> • Rent houses • Booking mess
Exceptional path	Mandatory fields are missing, Show “Required”.

Table 3.4: Use case description of admin(Delete house)

Use case name	Delete house
Precondition	Login
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking mess
Exceptional path	Mandatory fields are missing, Show “Required”.

Table 3.5: Use case description of admin(Update house)

Use case name	Update house
Precondition	Login
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking mess
Exceptional path	Mandatory fields are missing, Show “Required”.

Table 3.6: Use case description of admin(Manage feature)

Use case name	Manage feature
Precondition	Login
Actor	Admin

Primary Path	<ul style="list-style-type: none"> • Add feature • Delete feature • Update feature
Exceptional path	Mandatory fields are missing, Show “Required”.

Table 3.7: Use case description of admin(Add feature)

Use case name	Add feature
Precondition	Login
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Create feature • Feature title • Feature details • Submit feature
Exceptional path	Mandatory fields are missing, Show “Not Created”.

Table 3.8: Use case description of admin(Delete feature)

Use case name	Delete feature
Precondition	Login
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Select feature • Press Delete

Exceptional path	Mandatory fields are missing, Show “Error”.
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Table 3.9: Use case description of admin(Update feature)

Use case name	Update feature
Precondition	Login
Actor	Admin
Primary Path	<ul style="list-style-type: none"> • Select feature • Update details • Submit feature
Exceptional path	Mandatory fields are missing, Show “Required”

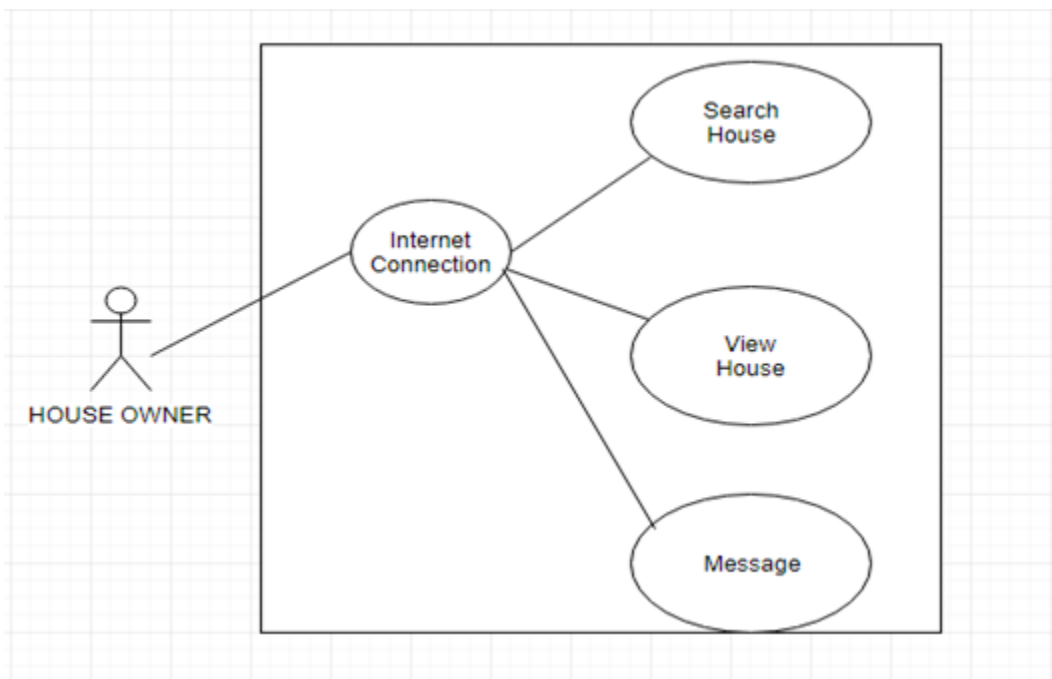


Figure 3.3: Use case description of House owner

Table 3.10: Use case description of House Owner(Login)

Use case name	Login
Precondition	None
Actor	House owner
Primary Path	<ul style="list-style-type: none"> • Email address • Password
Exceptional path	Mandatory fields are missing, Show “Login failed”

Table 3.11: Use case description of House Owner(Search houses)

Use case name	Search houses
Precondition	None
Actor	House owner
Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking house
Exceptional path	

Table 3.12: Use case description of House Owner(View houses)

Use case name	View houses
Precondition	None
Actor	House owner

Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking house
Exceptional path	

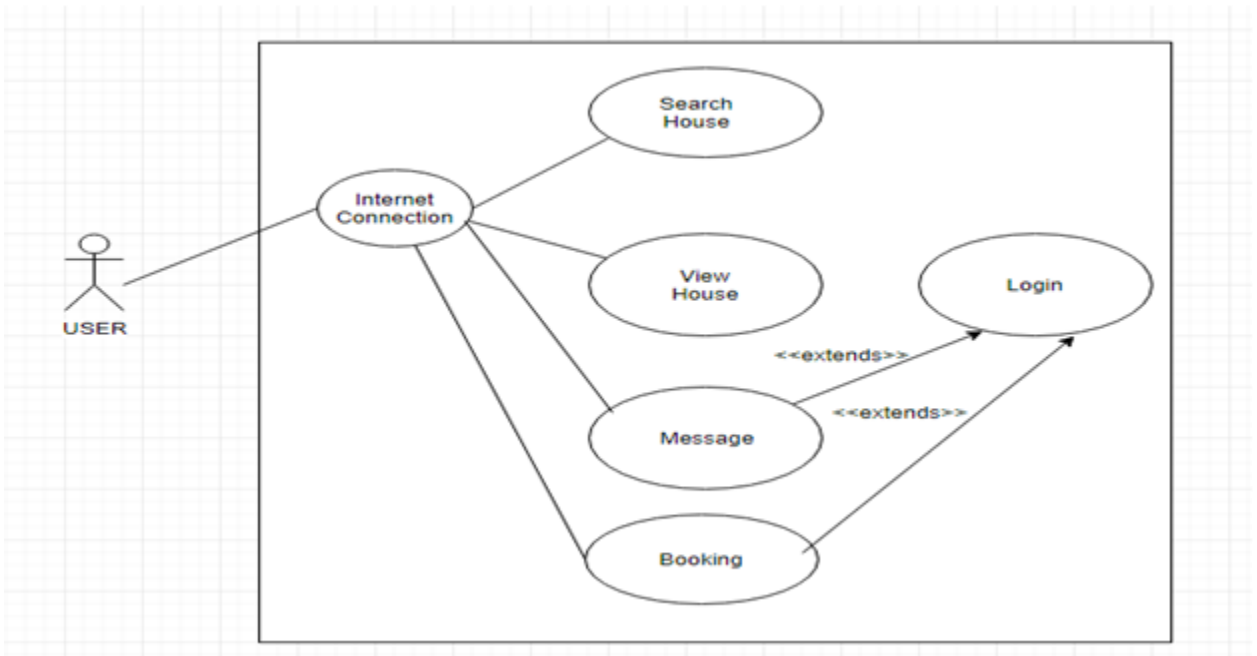


Figure 3.4: Use case description of User(Customer)

Table 3.13: Use case description of User(Customer)

Use case name	Search houses
Precondition	None
Actor	Customer
Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking house
Exceptional path	

Table 3.14: Use case description of User(View house information)

Use case name	View house information
Precondition	None
Actor	Customer
Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking house
Exceptional path	

Table 3.15: Use case description of User(Review house information)

Use case name	Review house information
Precondition	None
Actor	Customer
Primary Path	<ul style="list-style-type: none"> • Rent houses • Booking house
Exceptional path	None

3.4 Logical Data Model

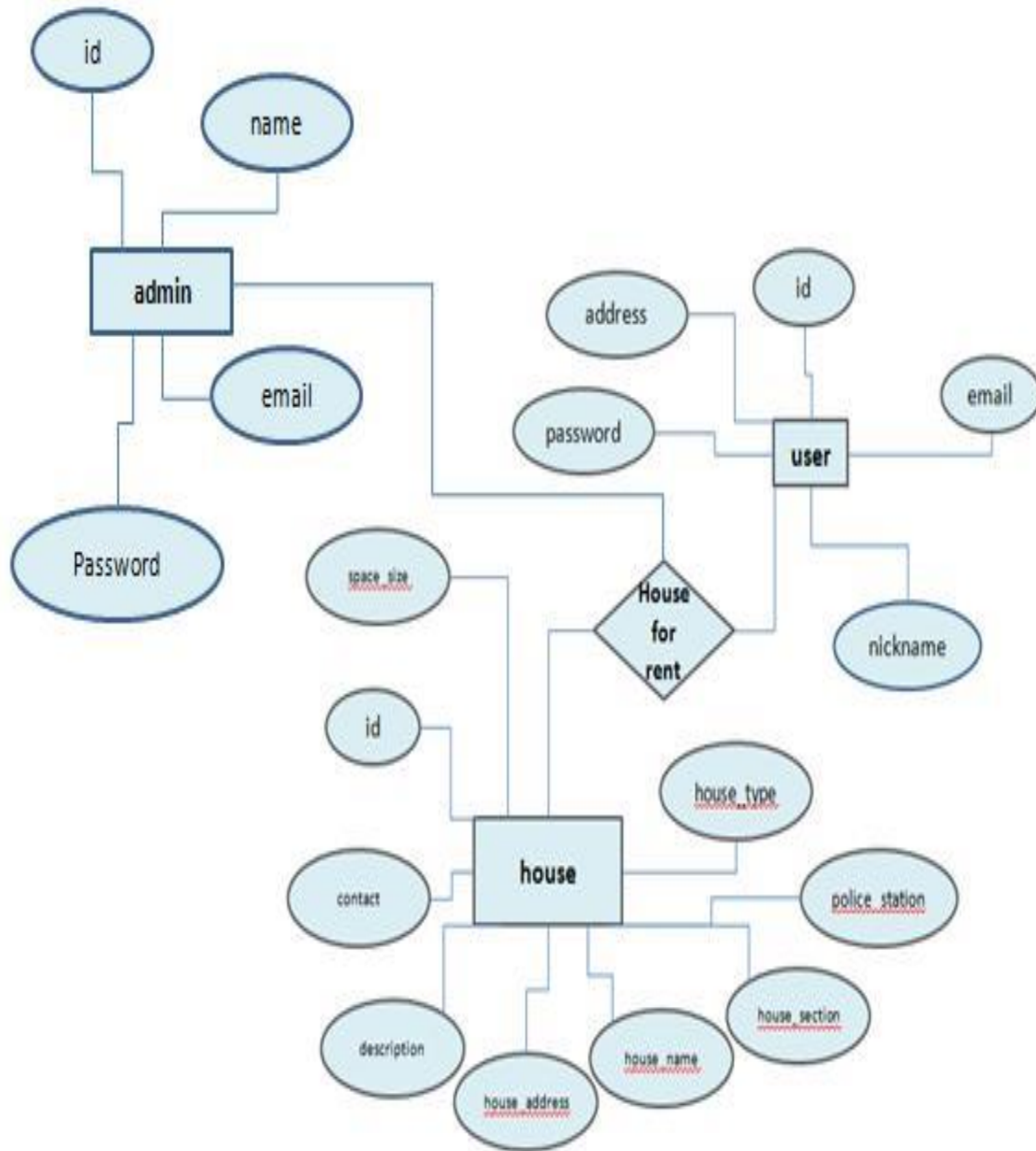


Figure 3.5: E-R Data Model Diagram

3.5 Design Requirements

- This system will contain three types of users like Admin, Owner and Customer
- both are user.
- Owner and Customer will create an account.
- Customer search location wised.
- Customer see all the post and get all information.
- Admin maintain all access.
- Admin can delete post.
- Every user view all post.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front-end design is the representation of a between the users and the servers. Front development. In the most aspect of a software development the most important part is to design the front-end. We created a simple front-end design for the users co-operate with the software easily.

Here are some front-end design of our software given below

There have search option and advance search option. Here we can registration and login by using registration and login option. In this search option user can search easily house for your desire house.

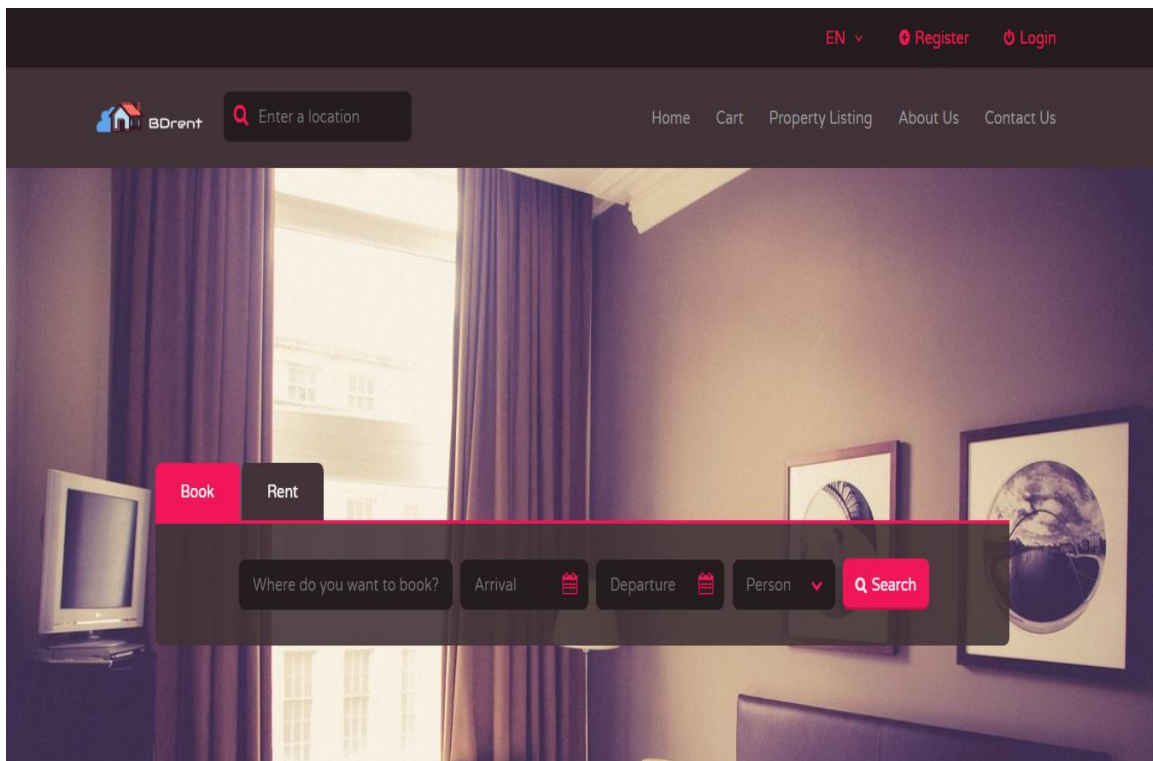
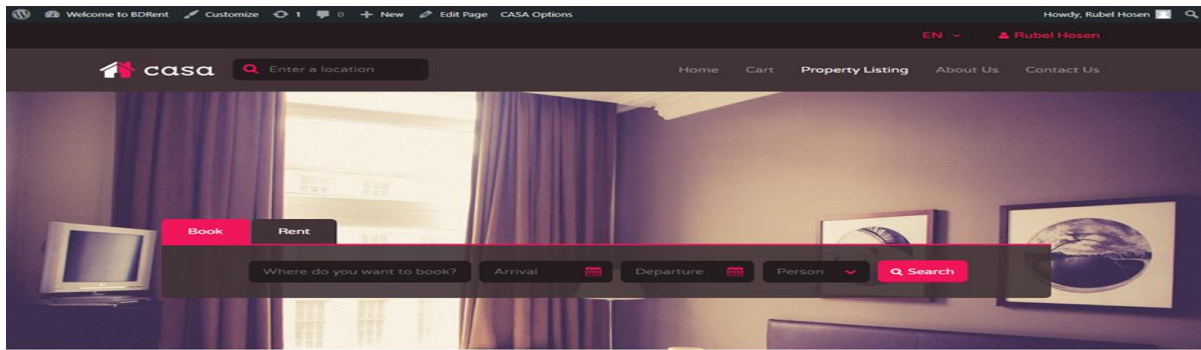


Figure 4.1: Home page banner



About BDRent

We believe that there is a demand for an online system that answers customers query related finding flat and other type of accomodation online within in Dhaka. Over the past few years the number of digital devices users like computers and smartphone user have become a lot more popular. And, if such system can be setup flat owners can easily find people to rent their flat and people looking for flat can easily find their accomodation.

[Get Started](#)



Our Service

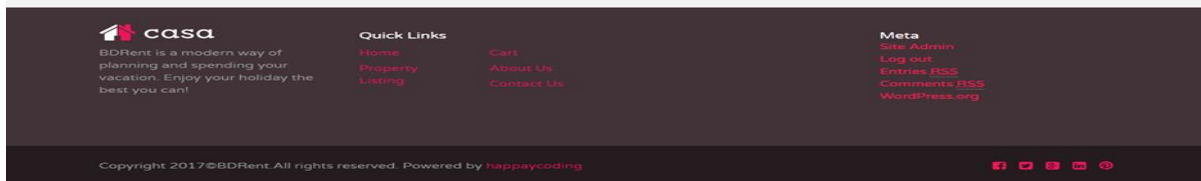
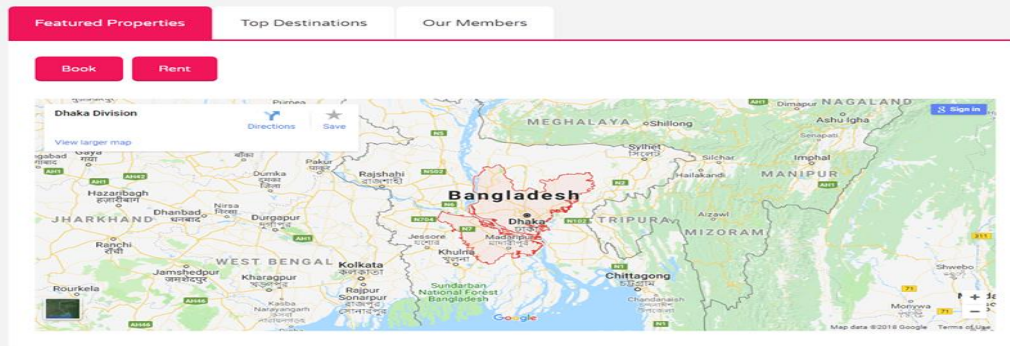
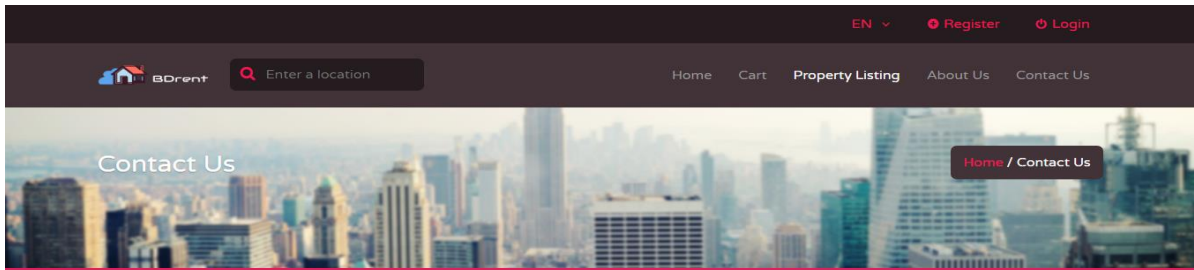


Figure 4.2: Full-Home page Design



BDRent HQ

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BDRent bangladesh

+8801751658171

Shukrabad,Dhaka,Bangladesh 1205
BDRent bangladesh

+8801611658171

Send Us a Message

Your Name (required)

Your Email (required)

Subject

Your Message

Send

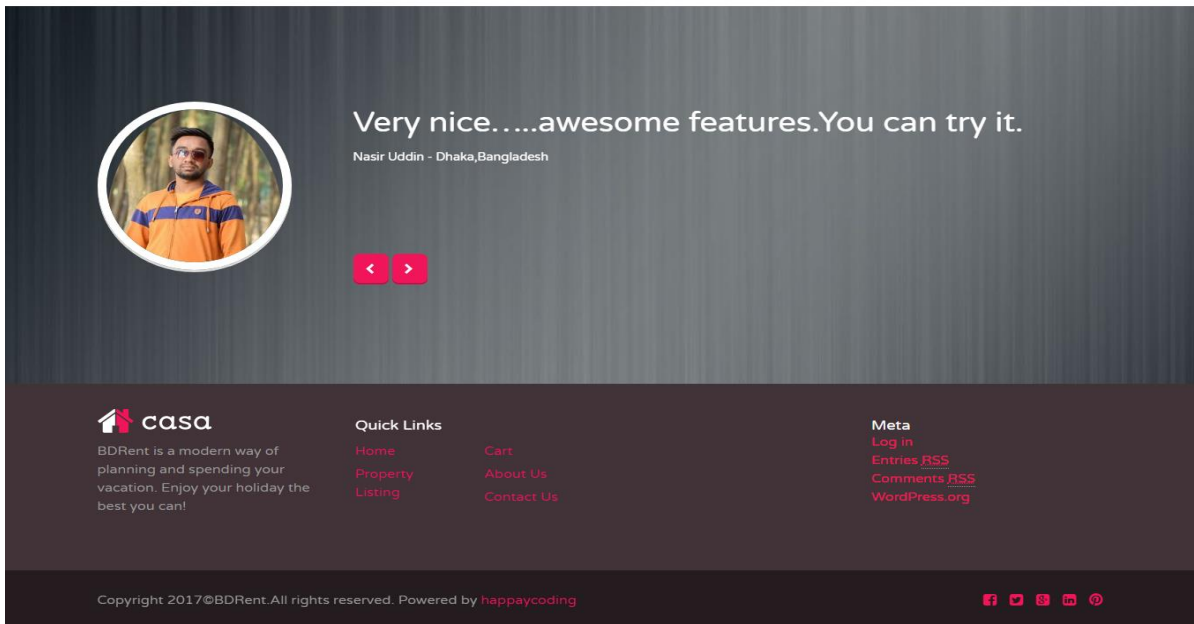


Figure 4.3: Contact-Us page

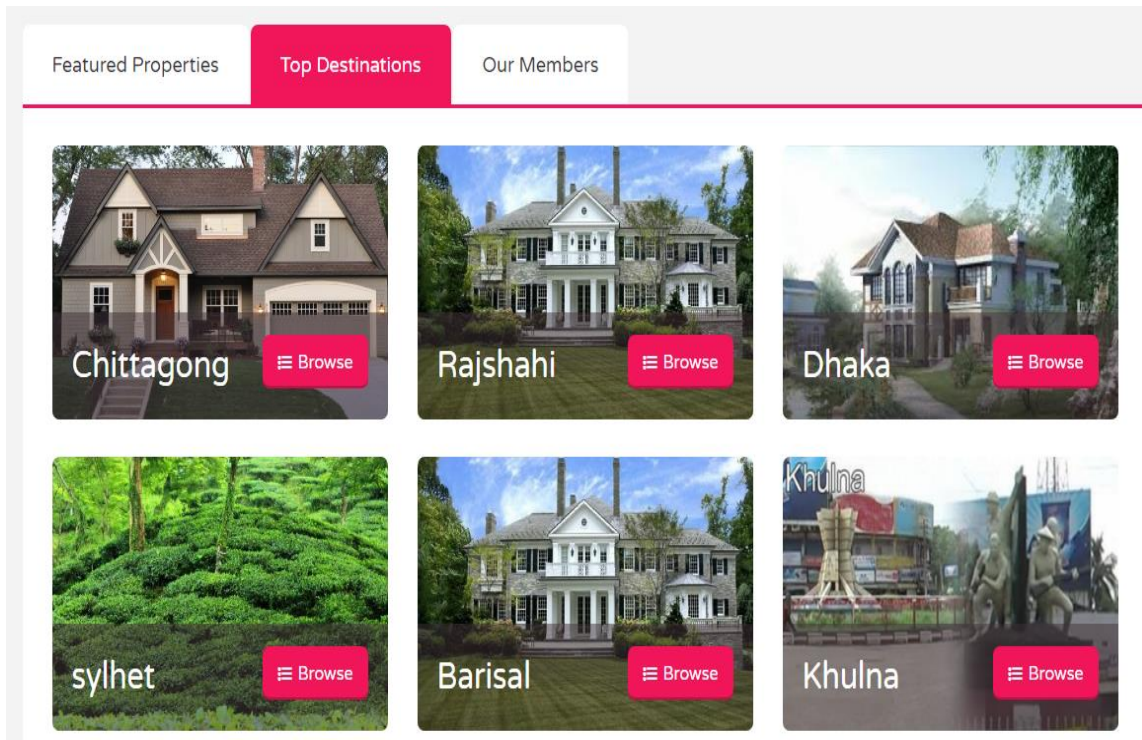


Figure 4.4: Destination page

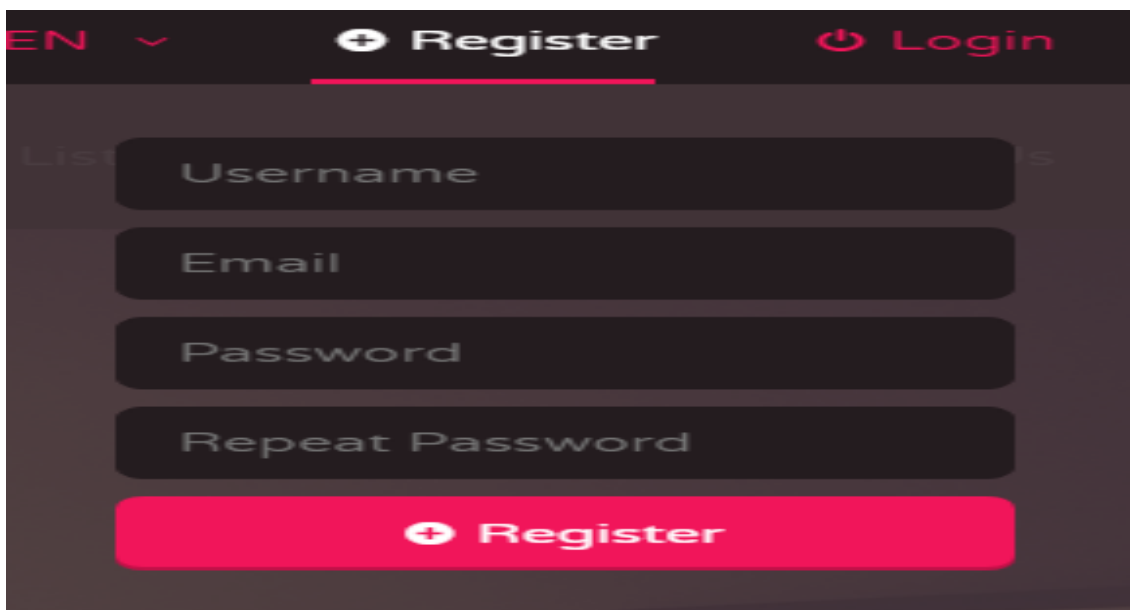


Figure 4.5: Registration option

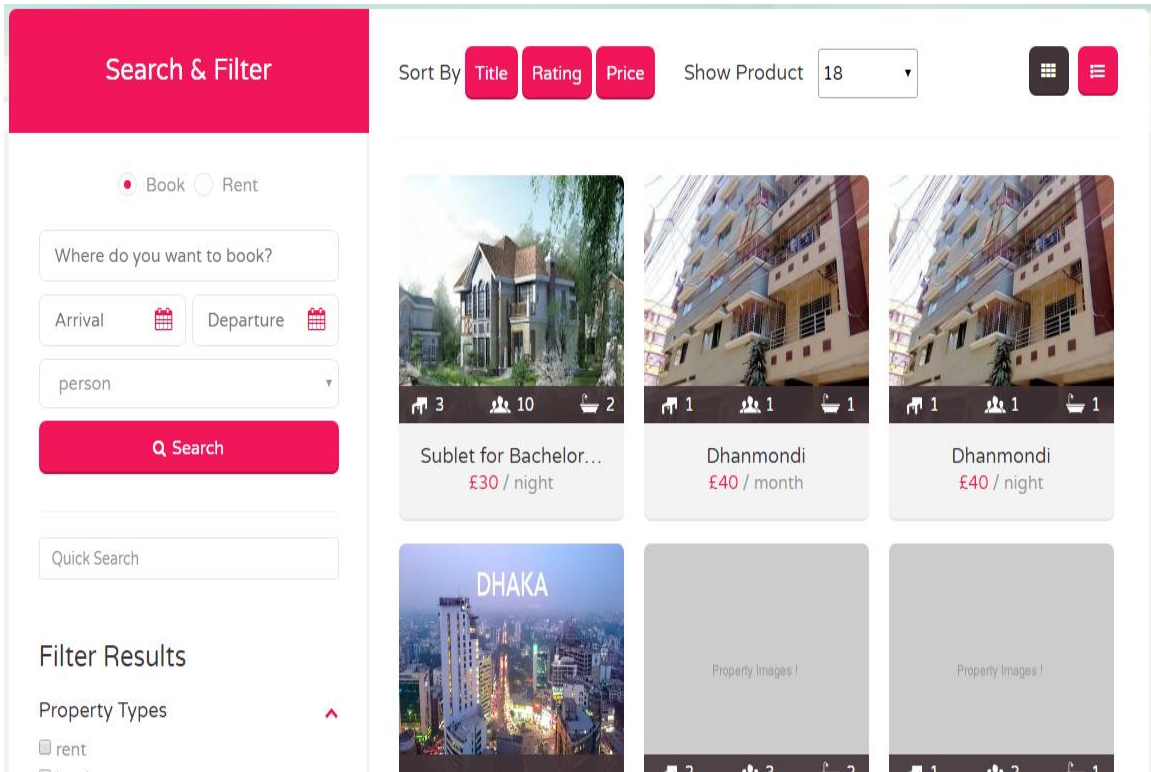


Figure 4.6: Property View

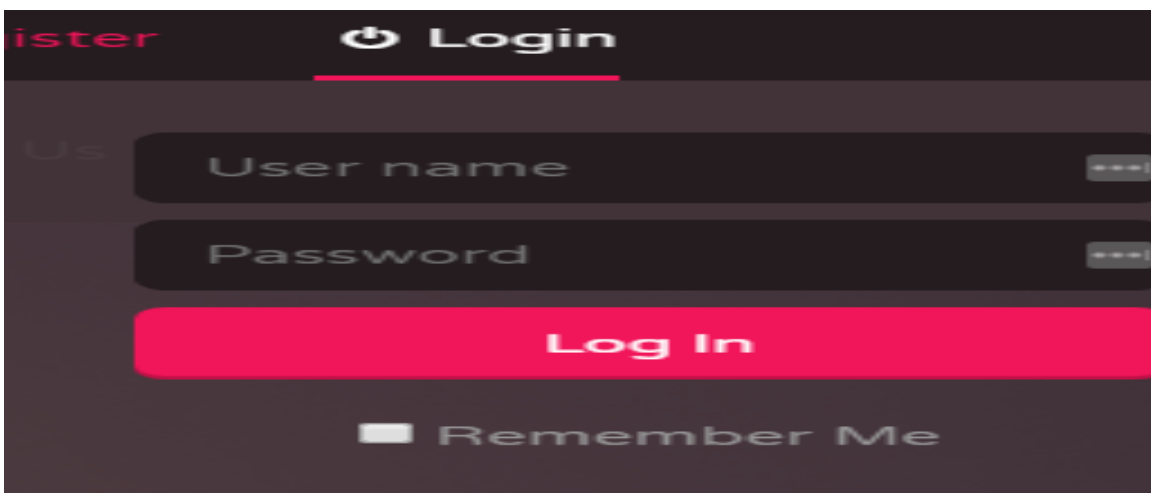


Figure 4.7: Login option

4.2 Back-end Design

The logical part of a software happened in the back-end. It is the most crucial part of a software. The whole system depends on it. Usually back-end refers server side. In back-end there are many factor consists like the scripting languages or the server side language, automated framework, database management, security, authorization, data parsing, data validating, data backups and so on. We developed “To-Let Management System” using PHP , in here all the logical thing and the hosting site provide us the MySQL database for saving the data information and the work flow of the software.

At first create html template then it will be convert to WordPress.

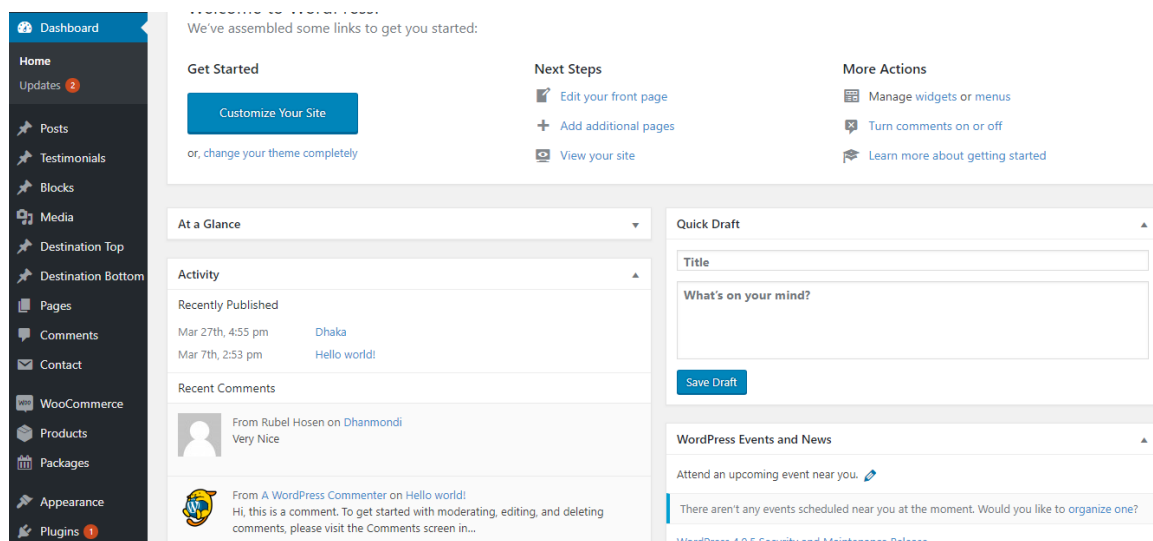


Figure 4.8: Admin dashboard

4.3 Interaction Design and UX

We designed this web software using bootstrap framework and font awesome. Those two helps us to design a better visual for the users and it is also responsive in many formats. “The process of enhancing user satisfaction with a product by improving the usability, accessibility, and pleasure provided in the interaction with the product”. “Designers focus on creating engaging web interfaces with logical and thought out behaviors and actions.

Successful interactive design uses technology and principles of good communication to create desired user experiences”.

4.4 Implementation Requirements

- The design needed to implement in web programming language PHP
- WordPress is must needed.
- Preferred Database is MySQL
- Schedule wise backup from server (Both source code and Database).
- Failed log in needed to store in database.
- SQL injection needed to protect with string escaping.
- Form validation needed using java-script before server site validation.
- CROSS-SITE-SCRIPTING needed to verify.
- Unauthorized attach needed to prevent with maximum attach limit.
- Invalid data input should display error message.
- For specific design JQuery needed to be implemented.
- In front end design bootstrap framework is needed.
- For visual aspect different types of fonts and icons are collected from Google font and font awesome.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

Because of using PHP Raw PHP and MySQL we made migration table which describes about the contents' attribute and the data types. Since MySQL, the model controller the database. So there is no direct SQL query needed to perform actions. In the model the data can be checked whether user has the permission to input the data directly in the database. We used PHPMyAdmin for DBMS. There are some tables in our DBMS which are

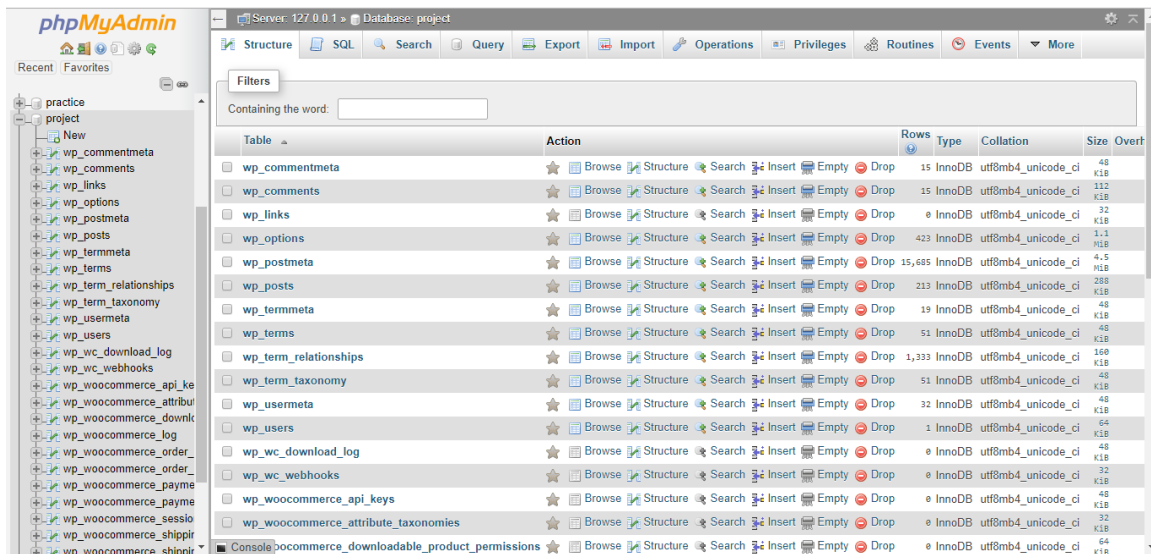


Figure 5.1: Database

The post table contains user information such as title description, image and date that users are saved. The controller control all the data parsing and related validation of the data to secure from injection, unwanted data and if data modification needed which can perform here in controller and also in model. After that model pass the data to the MySQL database.

5.2 Implementation of Front-end Design

It's very challenging to make a simple UI design for the users, we try make as simple as possible. Nowadays, there are many devices like smart mobile, tablets, desktop, 4k desktop etc. We make our website responsive so that user can visit from different devices with a marginable scale of the website and easily interact. We make interface relative and standard with the help of HTML, CSS, JavaScript and JQuery technologies. There are some factors of implementing the front-end design are given below:

- There will be three types of users like Admin, Owner and Customer.
- Every types of user must be registered by filling up the required information fields.
- User can login using their registered email and password.
- User can reset password by filling up the form of forget password.
- For updating user profile, user must enter the password for the security purpose.

5.3 Implementation of Interactions

Here to make our system (To-Let Management System) we have implemented responsive UI for better user experience. In the cases make things easy we use icon, text link and button. The system design of our web software is user friendly. Both Admin and Users will need to create profile for the access.

5.4 Testing Implementation

Testing implementation is process of testing upcoming implementation of a system, where tester or system architect will see cases and specification, is it implementable or have limitations. After unit testing is completed, developer performs integration testing. It is the process of verifying the interfaces and interaction between modules. While integrating, there are lots of techniques used by developers.

Table 5.1: Test case evaluation

Test Case	Test Input	Expected outcome	Obtained outcome	Pass/Fail	Tested on
Registration	User name, Email,Password, RepeatPassword	Showrestriction toFill all thefields	Fields must befilled by data	Pass	06-03- 18
Login	User name, Password	Successfully Login	Successfully Login	Pass	06-03- 18
Password	Incorrectpassword or empty field	Warning the Incorrectpassword orfield is empty	Show warning	Pass	06-03- 18

5.5 Test Results and Reports

Test Report is needed to reflect testing results in a formal way, which gives an opportunity to estimate testing results quickly. It is a document that records data obtained from an evaluation experiment in an organized manner, describes the environmental or operating conditions, and shows the comparison of test results with test objectives. Test report is very important and it is needed to know that the system is ready/not ready for implementation? It is a document that records data obtained from an evaluation experiment. We need to run through many types of testing.

There are many types of testing:

- Functionality

- Regression
- Security
- Performance
- Scalability
- Usability
- System interoperability
- Localization
- Disaster recovery
- Installation.

If the system passes through all these types of testing it is finally ready to launch So at the end we can carry out the results as the benefits of usability testing.

- Good Quality of application.
- System is easier to use in the system.
- Application is more readily accepted by users.
- Easy to use for the new users.
- Better UI for interaction.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Every man always wants to find the way to make their life easier and more comfortable. Every day we depend on many web applications for our daily work. So, we have decided to create a web application for saving the user's time for finding or posting a new home to rent or sell by providing them the chance to make an ad more easily and posting them for the other users and also interact with the ad more easily. Today's web applications are rich internet applications and developers are much concerned about applications security issues while they are developing their system. A user friendly system becomes popular rapidly and thus benefits both the system Developer and its users. So we decided to develop this web application which will be very much user friendly.

The system will build up communication between Owner and Customer through Admin. It will help both owner and customer to give and take a rentals. It will save time and reduce paperwork. No chance of losing any sort of data during transaction. The system will be come with more upgrades and new feature in future. It will be more upgraded with its web interface layout.

6.2 Scope for Further Developments

We have some limitation now soon we will try to reduce our limitation as much as possible.

- In future we intend to implement an artificial intelligence.
- Make sure that can submit individual post within a time frame.
- Will implement notification system.
- System features will be upgraded day by day for its better use.
- System will implement new UI if needed for good looks.
- Add more features

6.3 Limitations

- Owners cannot make posts live on the website by themselves.
- User must be connect with internet.

APPENDIX

Project Reflection

we had started our journey to make a system, where teachers and students can communicate easily from anywhere and it will save valuable times as well. We followed the model to implement and monitor our system, with the all hard work and spending a lot of time finally we were able to reach our goal at last. The project “To-Let Management System” will be very helpful for both owners and users to communicate. The user will be more facilities for need to take rent or give rent. User will take a proper information of he/she want for rent. They will be able to perform task in a contact each other and solved rental problem with good relationship and good understanding for future. So we believe that our “To-Let Management System” will be a positive and effective and helpful thing for both the owners and the users. And we will be continuously upgrading our system as.

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PLAGIARISM REPORT

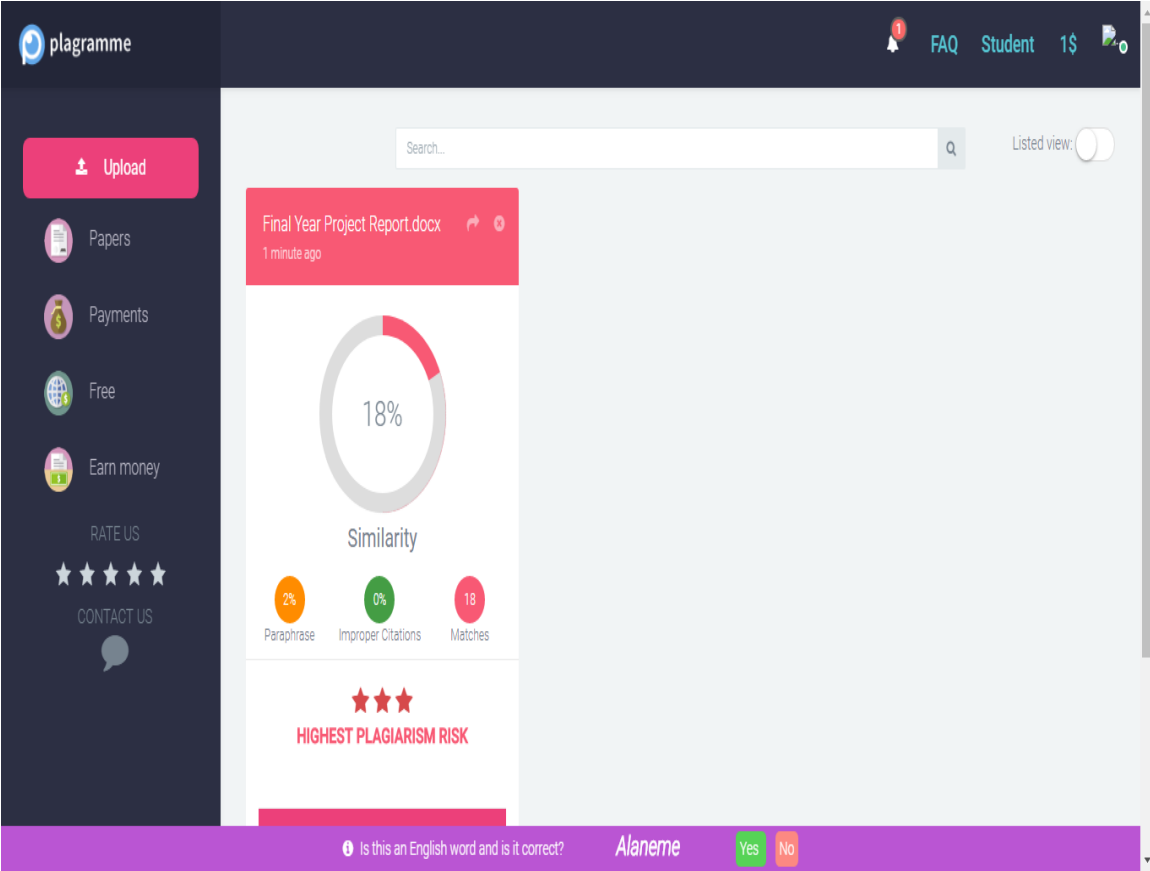


Figure: Plagiarism Report