

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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APPROVAL

This Project titled “**To-Let Management System**”, submitted by Md. Jane Alam Khan, Id: 151-15-5206, Md. Monirul Hassan, Id: 151-15-4743 and Mustafijur Rahman, Id: 151-15-4849 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 of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held in December 2018

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We hereby declare that this project has been done by us under the supervision of **Most. Hasna Hena, Senior 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 the award of any degree or diploma.

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ABSTRACT

Nowadays, almost all the people of our country are moving forward to the city for their life betterment. City community always want to lead a comfortable life. In our Dhaka city, the population is above 3crores. For a large number of people, there is needed quality residence. Dhaka city people, significantly the students, bachelors, and service holders search for their desired rent home in traditional ways which are much backdated. So our main focus is to help people to get quality and safe residence via the Internet as it is used by almost everyone lives in the city. They can find their desire residence easily without any hamper. Our website also saves enough time to the tenant and the Landlords too. In one word, it is a time demanding project.

Actually, we have implemented the project in an easy way. Anyone can find their desired residence via an advanced search. We have used HTML, CSS, JavaScript, PHP, and MySql etc. to implement this project. If a tenant wants to rent house/flat/apartment, he/she will see it in the home page. He/she also get details information by searching via location or category. Besides, it will bring all the landlords and tenants under an umbrella ensuring them a secure and fast process of posting their ads and rent to the users.

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CHAPTER 1

INTRODUCTION

1.1. Introduction

This is a system by which people can get house rent facility very smartly. Especially in Dhaka city, people have to face a lot of sufferings to find their desired residence. Our Website helps the city people to get quality accommodation by the automated system.

We built this Website to reduce the affliction of the tenant and also for the landlords. The Landlords can post an advertisement of his flat/room/parking after the verification of the Admin. The renter can choose his/her desired accommodation visiting this advertisement via our Website 'To- Let BD'

1.2. Motivation

In Bangladesh, the city people search their accommodation physically that means manually in the era of the 21st century. Now, most of the city people are using the internet. So we believe that there is a time demand to out from the ancient process of searching house/flat/room.

In this era information and data searching in online has become increasingly popular over the last few years. Almost all the people feel comfortable to get information from the internet. But most of the cases they cannot find any user-friendly accommodation site by which they can get adequate information for renting house/flat. Our Website To- Let BD will be helpful for that kind of people to choose their desirable home/house/flat.

1.3 Objectives

The objectives of the proposed Website are as follows:

- The Admin maintains all the types of authority.
- To deal with the Online system in a proficient mannered.
- Finding and resolving the limitation of existing Systems.
- Proposing a better solution based on an existing one.
- Designing and constructing a complete, reliable time demanding house rent System.
- Build a proper project plan.
- Construct this system to reduce the sufferings of city people.
- Testing rightly before publishing the site
- Recheck and refit any part of the website before realizing finally.

1.4. Expected Outcome

The Website will provide the proper address and location with google map to the users. Every user can see all types of information about the accommodation and have a right to choose their desired one. The user can contact both with the Admin and service seeker via online chatting and text messages.

- The project will help to organize To-Let system digitally.
- The tenants will get their desired residences easily in a very short time.
- The landlords will easily give their advertisements on our Webpage.
- It will bring revolutionary change in To-Let system by reducing all kind of disturbance.
- It ensures secure and safe residence to the tenants.
- It will reduce the harassment.
- Finally, our Application will provide a secured TO-LET system to the users.

1.5. Report Layout

The aim is to find out the present house rent problem and find out a better solution very comfortably. The report arranges as follows:

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

CHAPTER 2

BACKGROUND

2.1. Introduction

Bangladesh is a densely populated country. Among the cities, Dhaka is most populated. In 2018, about 1.80 crores people live in this city [1]. That city people need proper accommodation. The city people search for their rental house in a traditional way. It costs both time and money.

Nowadays everyone uses the internet. But very few websites are able to give proper information about accommodation to the people who search for his/her residence. We investigate the lacking of these sites and try to develop a secure and informative Website having all the requirements and give an easy way to find out the house/apartment/flat and rent it.

2.2. Related Works

Any Tolet.com is a website and is implemented to help the user for searching house/apartment/flat [2]. Although this website has many features most of them are not as user-friendly as our system is. This website also has some limitations such as not including google location services, user-admin chatting system, multiple image viewing system, comment system.

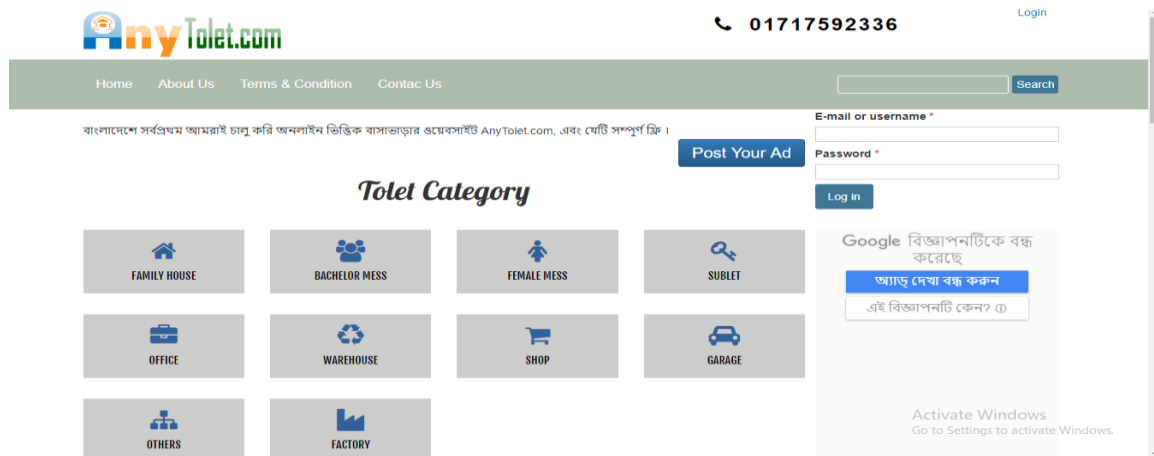


Figure 2.1: Screenshot of related website

2.3. Comparative Studies

Our developing website varies from another related existing website. All the tenants will be able to get proper accommodation information with multiple image viewing process via our website. Here every landlord can create their unique identification by signing up. After signing a landlord can add/delete posts which they want to rent. In the website, we firm to verification system which is controlled by the admin panel. After verification, the Admin approves the post for viewing the users. The process of renting by a tenant is also very much secured than the other existing sites. The tenants get proper information in details as well as multiple images of a single advertisement and also identify the exact location from the google map. We provide an online chatting System as well as comment System for the users which we did not find in the other existing sites.

2.4. Scope of the problem

Not probably but clearly we think about our scope of working. Problems people usually faced in the traditional system is so many that we get a large scope for making our Website better.so traditional and sites limitations which is our scope of the problem-

- It is a user-friendly website where all the users can interact so easily.
- The landlords can easily post their adds as per our directions (sign-up, sign-in, post ads).
- The admin conducts all the user's access and maintains the whole rental system (ads verification, approve ads, delete ads, post ads etc.)
- Users can view the valid ads in the home page and be able to contact with both admin and landlords.

So we've created a scope for working in this developing Website.

2.5. Challenges

In the 21st century, Time is very important for everyone and so as living. In our website, we give our user a perfect choice of home that user exactly want. Keeping user Information secure is also our challenging task. We provide the user a perfect match that he/she wants. We work to reduce tenant and landlords pain for searching the home/flat/apartment. The main challenges are:

- Admin must define which user can get access to post any ads or not.
- Admin maintains the entire database very securely.
- Posted ads are open to all.
- Give more importance to the security level at every phase.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1. Business Process Modeling

Business Process Model is a global standard for Process Modeling [3]. It one of the most important components of successful Business-IT alignment. We introduced BPM method to describe our System. The model and description in the following diagram:

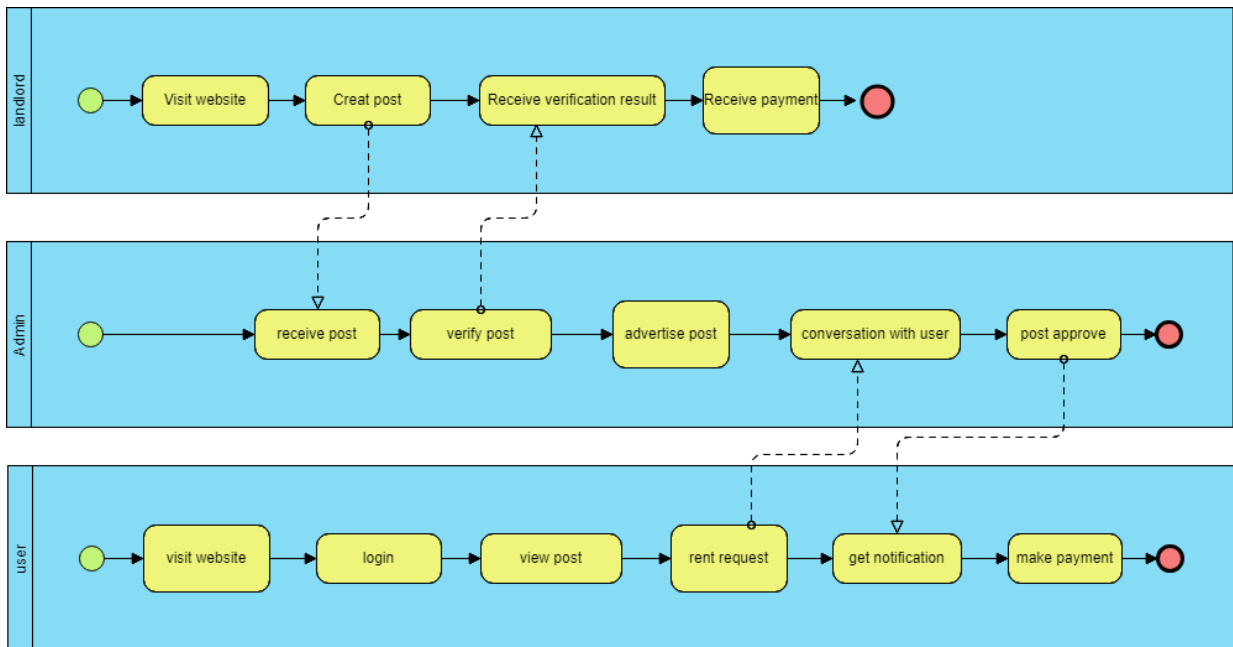


Figure 3.1: Business Process Model

3.2. Requirement Collection and Analysis

We have collected some basic requirement during the implementation of the software and also in the data collection. Some of them are as follows:

- View every single post.
- Specify the user separately.
- Must need to create an account for login.
- Required a valid Email and password and further actions.
- Admin conducts the authorization and has the right of adding or deleting a post.
- The Landlord has the access to edit and delete his/her post.

3.3. Use Case Modeling and Description

Use cases are typically concerned with the ‘actors’ [4]. An actor is a character or entity that play a vital role to perform fruitful work. We have identified three actors in our project.

They are –

- Admin
- Landlord
- Tenant

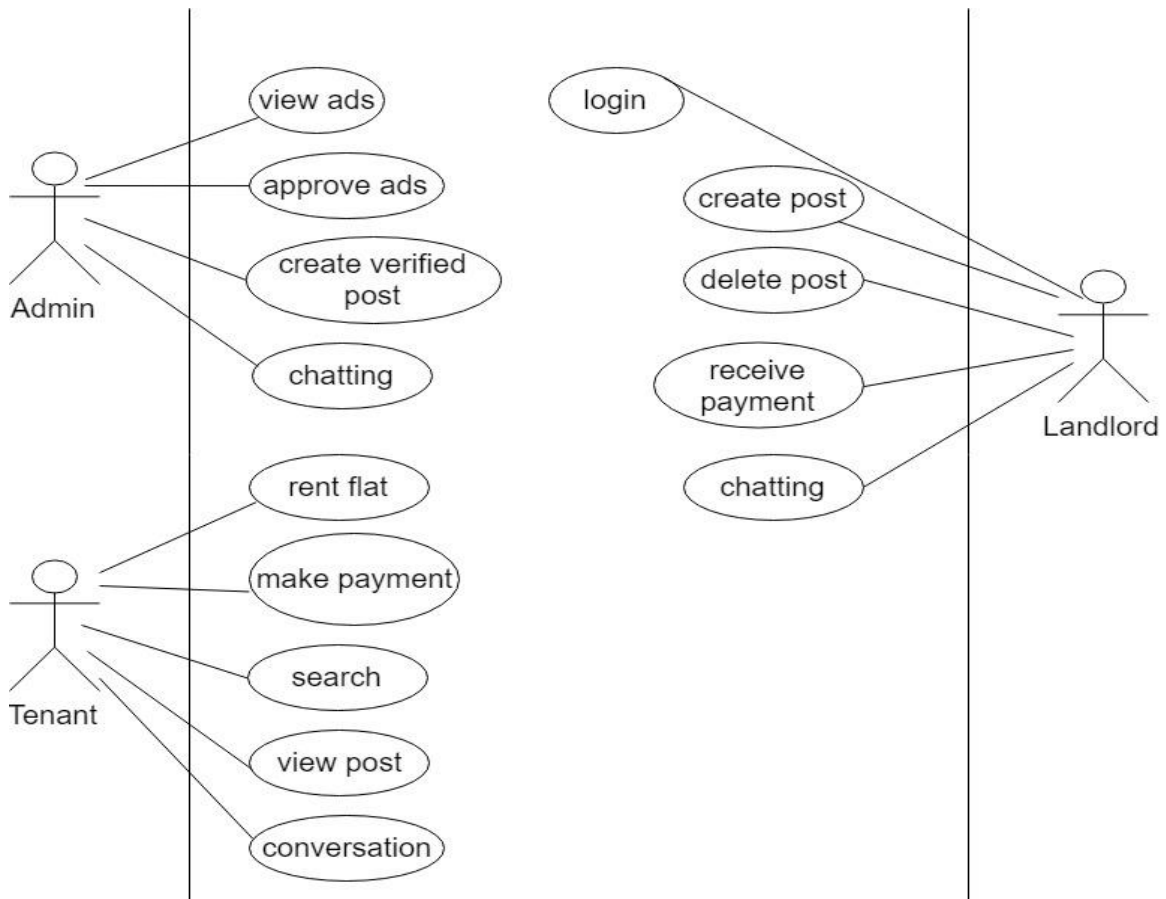


Figure 3.2: Use Case diagram

Table 3.1. Use Case Modeling and Description Admin(Login)

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

Table 3.2. Use case description of admin (Manage, add, rent, delete, update house/features)

Use case name	Manage house
Precondition	Login
Actor	Admin
Primary path	<ul style="list-style-type: none"> • Add post/feature • Delete post/feature • Update post/feature
Exceptional path	If mandatory fields are missing, Show “Error”

Table 3.3. Use Case Modeling and Description of Landlord(Login)

Use case name	Login
Precondition	None
Actor	Landlord
Primary path	<ul style="list-style-type: none"> • Email address • Password • Registration
Exceptional path	Mandatory fields are missing, Show “Wrong email or password”

Table 3.4. Use Case Modeling and Description of Landlord(Post ads)

Use case name	Post Ads
Precondition	Login, Fill up registration form
Actor	Landlord
Primary path	<ul style="list-style-type: none"> • Post advertisement • Delete advertisement
Exceptional path	Mandatory fields are missing, Show “Error”

Table 3.5. Use Case Modeling and Description of Tenant(Login)

Use case name	Login
Precondition	None
Actor	Tenant
Primary path	<ul style="list-style-type: none"> • Email • Password
Exceptional path	Mandatory fields are missing, Show “Wrong email or password”

Table 3.6. Use Case Modeling and Description of Tenant(Rent house)

Use case name	Rent house
Precondition	Log in
Actor	Tenant
Primary path	<ul style="list-style-type: none"> • Rent house/flat/apartment
Exceptional path	Mandatory fields are missing, Show “Error”

3.4. Logical Data Model

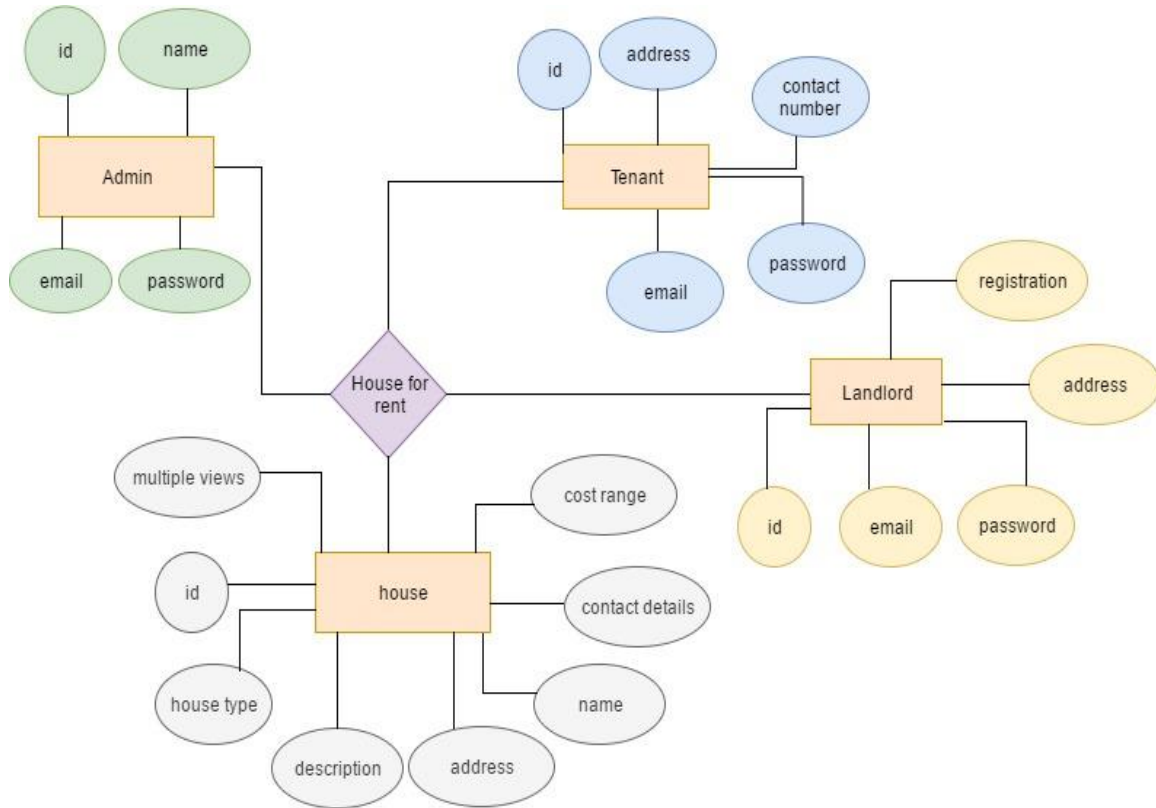


Figure 3.3: Logical Data Model [5]

3.5. Design Requirements

We have used HTML, CSS, Bootstrap, and JavaScript for designing our Webpage [6] [7]. The System contains three types of users Admin, Landlord/Owner, Tenant. Other requirements needed –

- Landlord and Tenant will create an account for login.
- All the recent ads are shown on the Homepage.
- Customer or Tenant can search in various way(select category/Area/City/Price range).
- The user can see all the post and detail information.
- Admin maintains all the access and authorization.

- Admin can verify and add a post or delete the post if there any irrelevance.
- Landlord will delete his post after getting a customer for his property.

All of the above figures are drawn by using draw.io [8]

CHAPTER 4

DESIGN SPECIFICATION

4.1. Front-End Design

Front-end design is the representation of converting data to the graphical user interface for every user to interact with by using HTML, CSS, and JavaScript etc. In a Website, there is required a well-furnished Front-end Design which will be very helpful to the user.

The Front-end Design of our Website are as follows:

We have some advanced search option by logging in and filling up a registration form. The user can also see some recent Ads in Slideshow. In the System, there is also a feedback process for the customers. By our advanced search option, people can easily find out their desire house/flat/apartment.

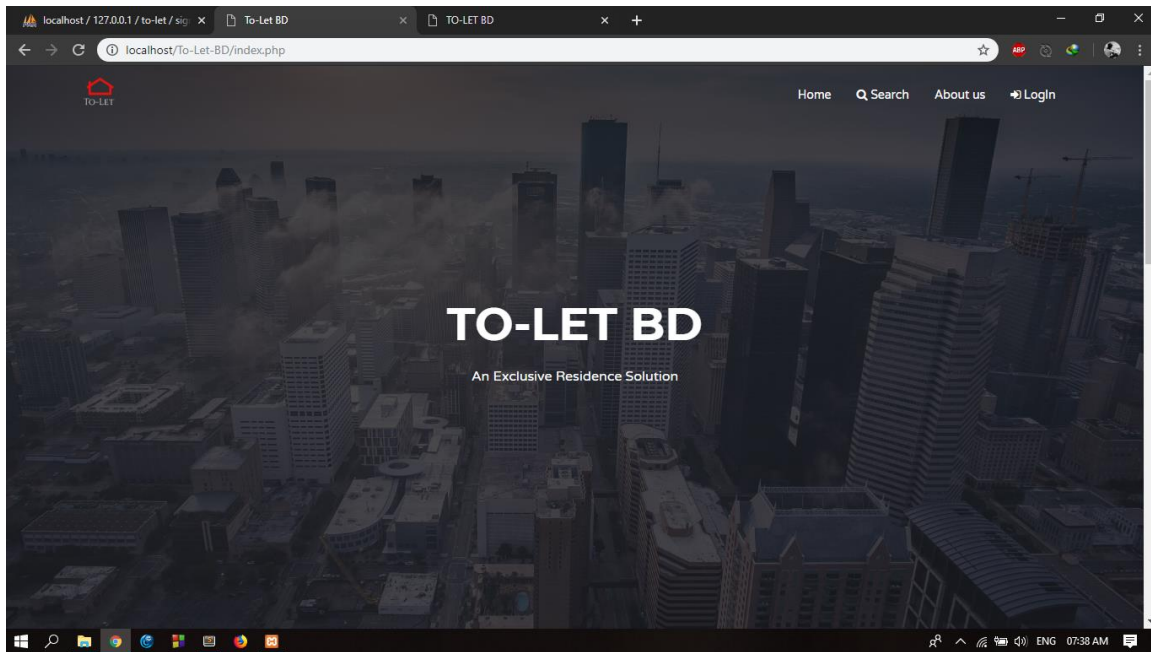


Figure 4.1: Homepage Banner

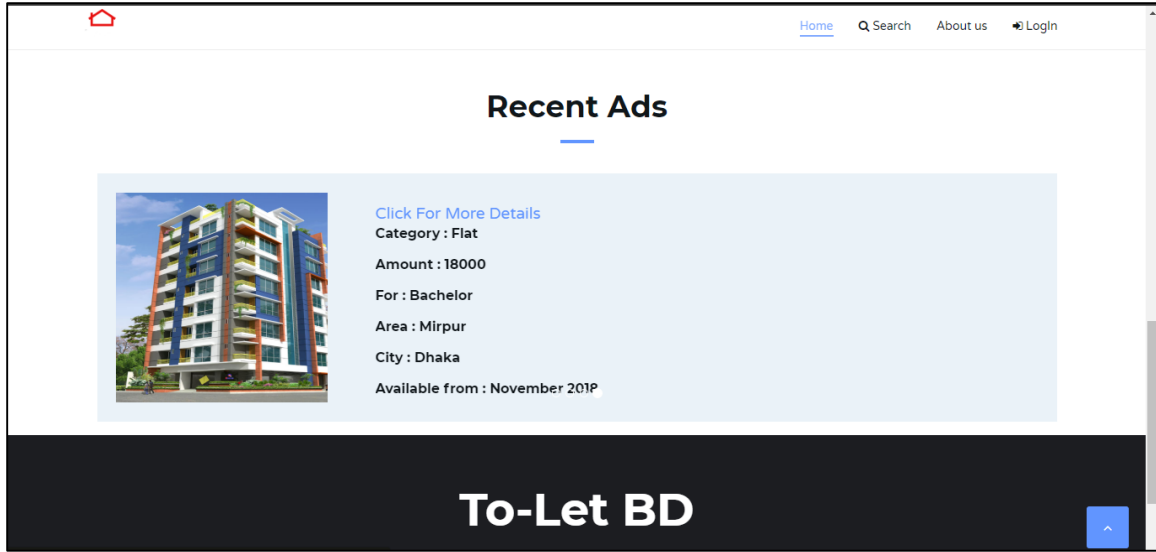


Figure 4.2: Recent Ads (Homepage Slider)

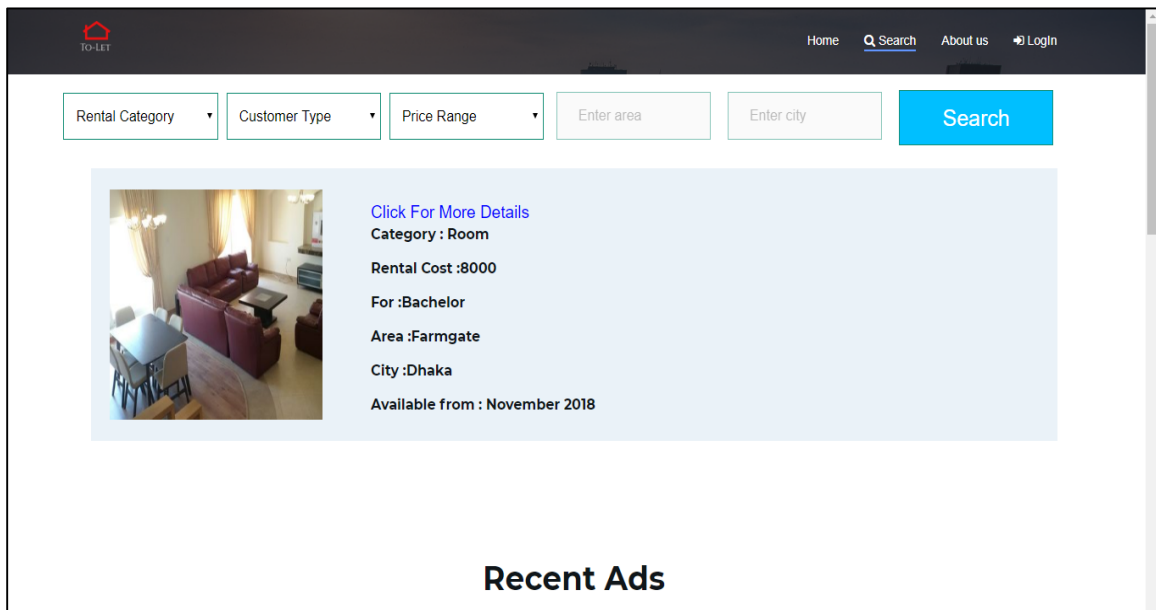


Figure 4.3: Searching Ads

Click For More Details
Category : Room
Rental Cost : 11000
For : Family
Area : Uttara
City : Dhaka
Available from : January 2019

Show more Ads

To-Let BD

Figure 4.4: Recent Ads

Home Search About us LogIn

Our Team

Shuvo Mithun Sajeeb

Figure 4.5: Team Members

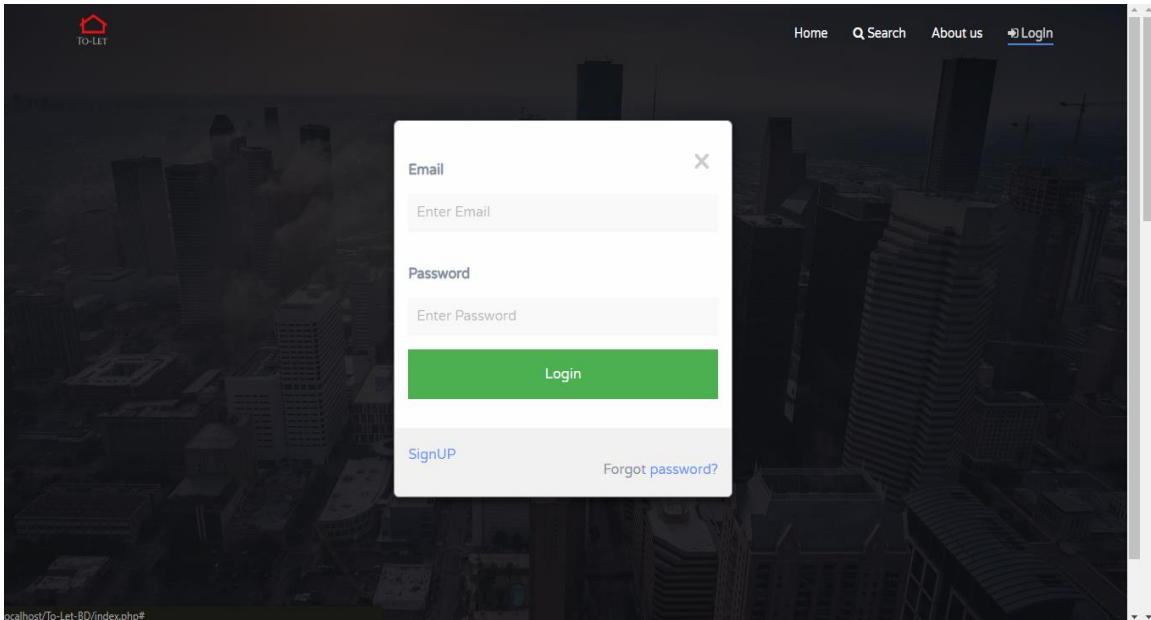


Figure 4.6: Login Page

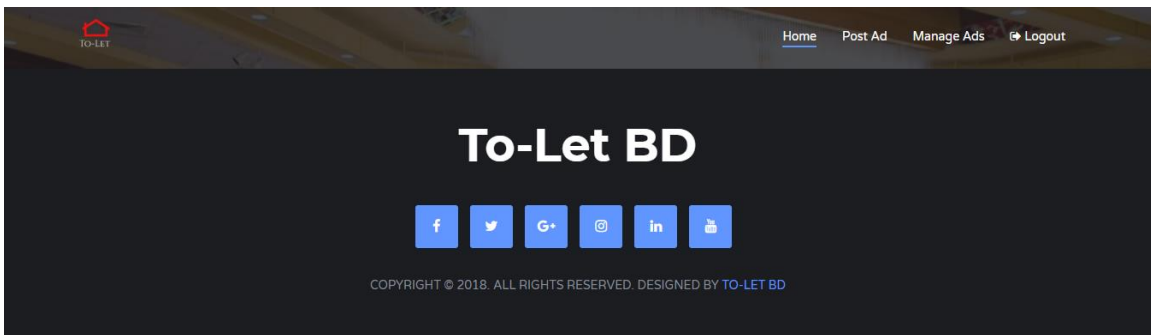


Figure 4.7: Landlord Home Page

The screenshot shows a registration form titled "Registration Form" on a website. The navigation bar at the top includes "Home", "Search For Ads", "About", and "Login". The form contains the following fields:

- Full Name:** Text input field with placeholder "Full Name".
- Gender (select one):** Dropdown menu with "Male" selected.
- Email:** Text input field with placeholder "Enter Email..".
- Phone:** Text input field with placeholder "Enter Phone..".
- Password:** Text input field with placeholder "Enter Password Here..".
- Confirm Password:** Text input field with placeholder "Enter Confirm Password Here..".
- Address:** Text input field with placeholder "Enter Address Here..".
- Occupation:** Text input field with placeholder "Enter Occupation..".
- NID:** Text input field with placeholder "Enter NID..".

At the bottom of the form, there is a checkbox labeled "I Agree To The Terms And Conditions" and a "Submit" button.

Figure 4.8: Registration Form

The screenshot displays an advertisement for parking. On the left is a photograph of a red car parked in front of a building with a sign that reads "Michael's HARBORSIDE". To the right of the image is a "Details" section with the text: "It has broaden area and there is no problem".

On the right side of the advertisement, there are two sections:

- Ad details:**
 - Rental Category : Parking
 - Rental Cost : 4000
 - For : Family
 - City : Dhaka
 - Road Number : 21
 - House Number : 67
- Advertiser details:**
 - Name : Md. Sarfaraz Ahmed
 - Email : sajeeb706@gmail.com
 - Phone1 : 01957215979
 - Phone2 : 01971716967
 - [Connect To Landlord](#)

At the bottom right, there is a "Speak to us!" chat widget with a "1" notification bubble and a status indicator that says "Online".

Figure 4.9: Ad Details

4.2. Back-end Design

The back-end design we've implemented the logical part of the Website which is very much crucial as the whole System depends on its successful completion. Back-end Design consists of scripting language or server site languages, automated framework, security, database management, authorization, data processing, data validating, data parsing, data backups and so on. We've developed "To-Let BD" using PHP, in here all the logical parts and the hosting site provide us the MySQL database for saving the data information as well as the workflow of the webpage [9].

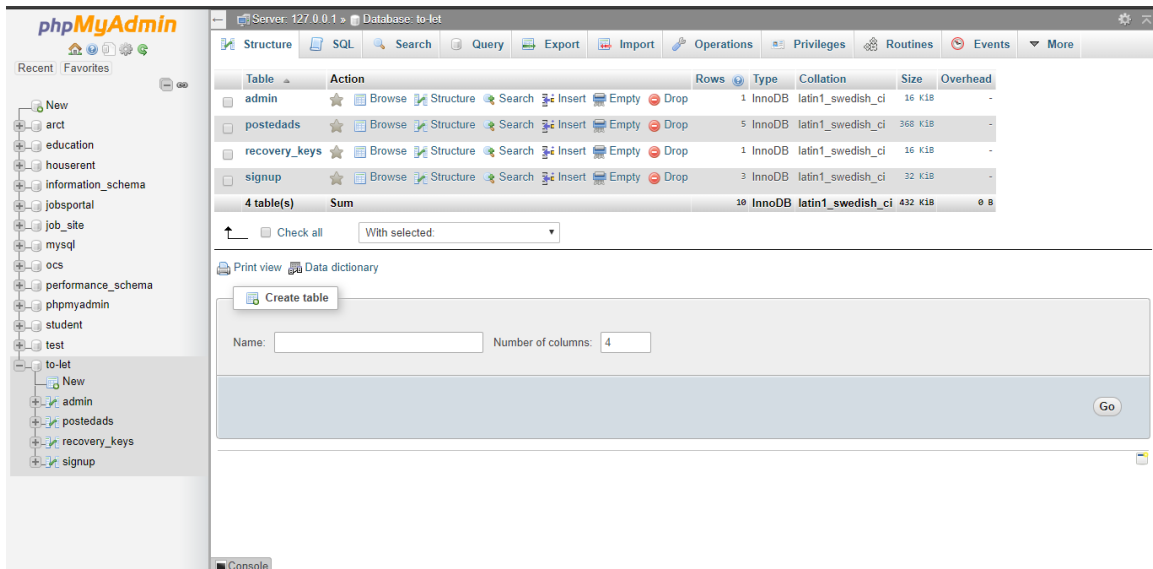


Figure 4.10: Back-end Design (Tables)

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	id	int(255)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial More
2	status	varchar(20)			No	None		Change Drop Primary Unique Index Spatial More
3	date	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
4	name	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
5	email	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
6	phone1	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
7	phone2	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
8	homecategory	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
9	amount	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
10	customertype	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
11	month	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
12	city	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
13	roadnumber	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
14	area	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
15	housetnumber	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
16	otherdetails	varchar(255)			No	None		Change Drop Primary Unique Index Spatial More
17	image	longblob			No	None		Change Drop Primary Unique Index Spatial More

Figure 4.11: Back-end Design (Ads Table Structure)

Showing rows 0 - 2 (3 total. Query took 0.0006 seconds.)

```
SELECT * FROM `to-let`.`signup`
```

[Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Number of rows: 25 Filter rows: Search this table

Sort by key: None

id	name	gender	email	phone	address	occupation	nid	password
1	shuvo	Male	monirul5@gmail.com	01786305700	Dhaka	student	199765482626	12345
2	sajeeb	Male	sajeeb706@gmail.com	01786305700	Mogbazar	student	1996578435	12345
3	mmithun	Male	mithun4849@gmail.com	01957215979	kakraid	student	1111	12345

Check all With selected: Edit Copy Delete Export

Number of rows: 25 Filter rows: Search this table

Query results operations: Print view Export Display chart Create view

Figure 4.12: Back-end Design (Signup Table Structure)

4.3. Interaction Design and UX

We designed this web page using HTML, CSS, JavaScript, and Bootstrap. These help us to create a better visualization for the users. The process of raising user satisfactory in renting System by improving accessibility, usability, extensibility etc. Web developers focus on creating web interfaces including logical and thought out behaviors and actions. Finally implemented design interact with using technology and principles of excellent user experience to the users.

4.4. Implementation Requirements

In our website, we've used both front-end and back-end implementation requirements such as follows:

- We used PHP as web programming language to implement the design.
- WordPress is mandatory for the site.
- We selected MySQL as our database.
- There is a backup from the server with source code and database.
- Database store if log in process is failed.
- To protect string escaping, we injected SQL.
- Before performing server site validation, form validation must be needed.
- Cross-site-scripting required for verification.
- Ineffective data input must display an error message.
- Included different types of fonts and icons from Google font.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1. Implementation of Database

As we use PHP, MySQL and Raw PHP, we constructed a migration table which describes the types of data and the contents attribute. Here MySQL is the model controller of the database. So we did not use any direct SQL query to fulfill actions. In the system, the user can input data directly in the database after checking. For DBMS, we have used PHP MyAdmin.

In the post table, there is some useful information like title description, image, and date. All data parsing and related validation are controlled by the controller to protect from the injection. Data-modifying and unwanted data deletion are also performed in the model. Then the model passes the required data to the MySQL database.

5.2. Implementation of Front-end Design

It is very challenging to implement an ordinary UI for the users and according to the demand, we have constructed it as simple as possible. In this era, almost every people are connected with the internet and they can easily browse our website using that facility. We made interface relative and standard using HTML, CSS, and JavaScript etc. Some features of implementing the front-end design are as follows:

- Contains three types of users like Admin, Landlord, and Tenant.
- Every user must fill up the required information fields correctly.
- The user can log in using their valid email and password.
- Password recovery process is available on our website
- The user must use a unique password for security purposes.

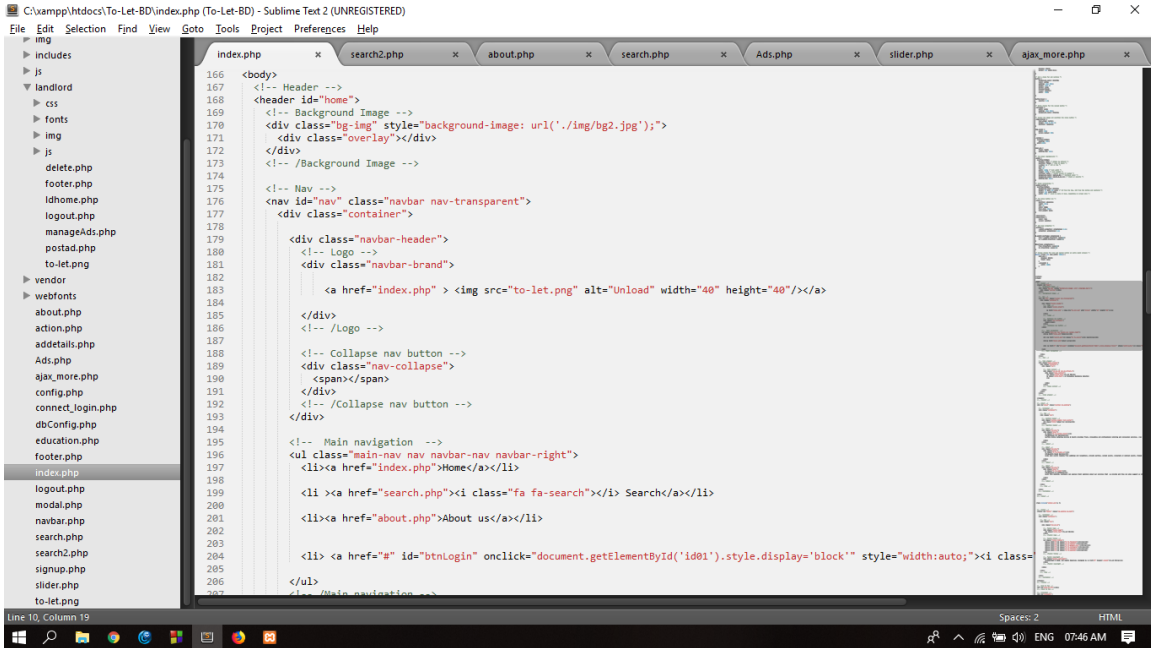


Figure 5.1: Screenshot of Text Mode

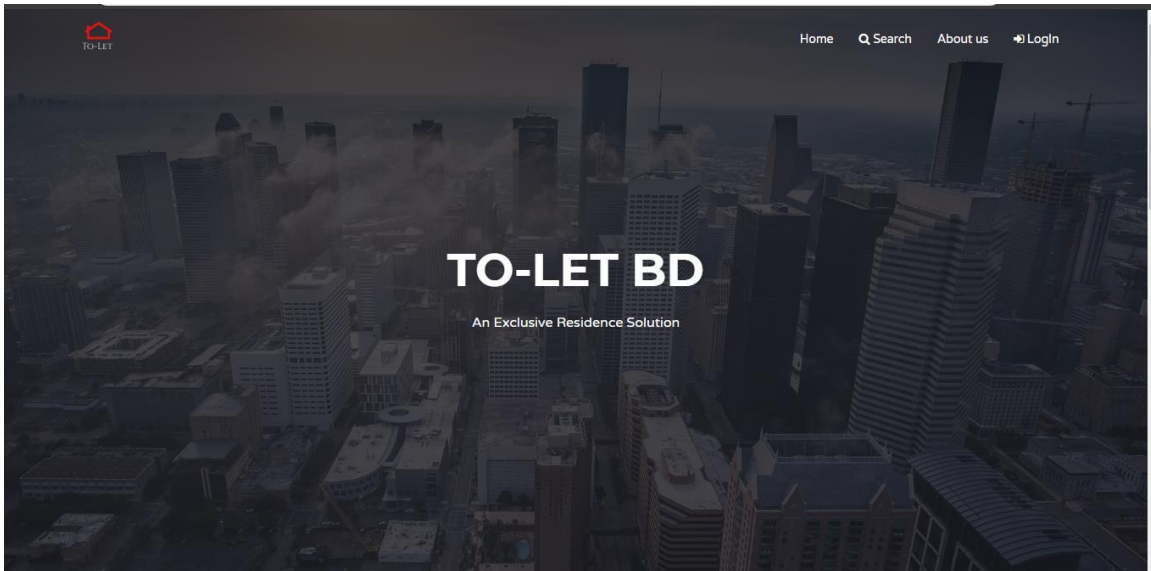


Figure 5.2: Screenshot of Design Mode

5.3. Implementation of Interaction

For making our website (To-let BD), we have constructed two layers. Firstly, the View layer deals with user screen and Database layer deals with storing data. Besides, we have implemented responsive UI, icon, text link and button for better user experience. The System design of our site is so user-friendly. Both Admin and Users have to create a profile for proper access to our Website.

5.4. Testing Implementation

Testing implementation is a process of testing the upcoming implementation of the corresponding system where tester or architect can see test cases and specification, whether it is constructed or not [10]. Developer performs integration testing after completing Unit testing. This process verifies the interfaces and interaction between modules. At the time of integrating, there arise a lot of techniques used by us which are very unique.

Table 5.1: Test Case Evaluation

Test Case	Test Input	Expected Outcome	Obtained Outcome	Pass/Fail	Test Date
Registration	Username, Email, Password, Repeat Password	Show warning to fill all the required fields	Fields must be field by proper data	Pass	31/10/18
Login	Email, Password	Successfully Login	Successfully Login	Pass	31/10/18

Password	Incorrect Password or empty field	Show warning	Show warning	Pass	31/10/18
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5.5. Test Results and Reports

The test report is needed to express testing results in a formal way that gives us a clear concept to estimate testing results fruitfully. It is such a document that records data and other testing information in an organized way. It also defines the environmental or operating conditions and makes a difference between test results and test objectives. Whether the system is ready or not ready for implementation is also declared in the test report. We get all valid data set from an evaluation via test report. We have to run through various types of testing.

Testing types are given below:

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

If the system passes through all the above types of testing, then it is finally ready to launch to carry out the usability testing benefits.

- Good quality of the application.
- The system will be easier for the user.
- Acceptable application to the user.
- Better User Interface for interaction.
- The new user feels comfortable to use the system.

CHAPTER 6

CONCLUSION & FUTURE SCOPE

6.1. Conclusion

Finally, by completing this project, we have learned a lot about our academic curriculum as social responsibilities. While developing the project we were very concerned about our learning which will help us with our better career.

Everyone always desires to find the easy way to make their life easier and more comfortable. Nowadays almost every city people depend on many websites for their daily work. So we've decided to develop a Web application for saving the user's time for searching or posting a new home to rent by providing the customer's interaction. Today's Web developers are much concerned about the Security System for the corresponding Web Application. As every people likes a user-friendly site, we have developed it considering the demand.

The System will build up a good communication between the Landlord and Tenant via our Admin panel. It will help one to find his/her demanding house without any physical effort. There is no chance of losing any data as they are saved in our database. The System will come with more upgrades and with new features day by day.

6.2. Scope for Further Developments

Till now, we have implemented the website as well-furnished as possible. We have added all the required features to run the site smoothly. Besides, we will also add some features in the near future. These may be as follows:

- We will try to introduce an artificial intelligence in our project.
- The notification system will be added.
- The individual post will be submitted within a time frame.
- System features will be upgraded day by day.
- We will introduce new UI for good looking of the system.
- Will add other relevant features.

6.3. Limitations

We have successfully constructed the website 'To-let BD'. But we noticed that there are some limitations to our work.

- The user must have an internet connection.
- Some lacking in security issues
- We will try to introduce an artificial intelligence
- We will add 3D view
- Mobile application will publish soon
- The notification system will be added

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APPENDIX

We had started our journey to make a system to save time. We followed the model to implement and monitor our system, with all the hard workings 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 get more facilities for the need to take rent or give rent. The user will take a proper information of he/she want for rent. They will be able to perform the task in a contact each other and solved the rental problem with good relationship and good understanding for the future. So we believe that our “To-Let Management System” will be a positive and effective and helpful thing for both the Landlord and the Tenant. And we will be continuously upgrading our system as.

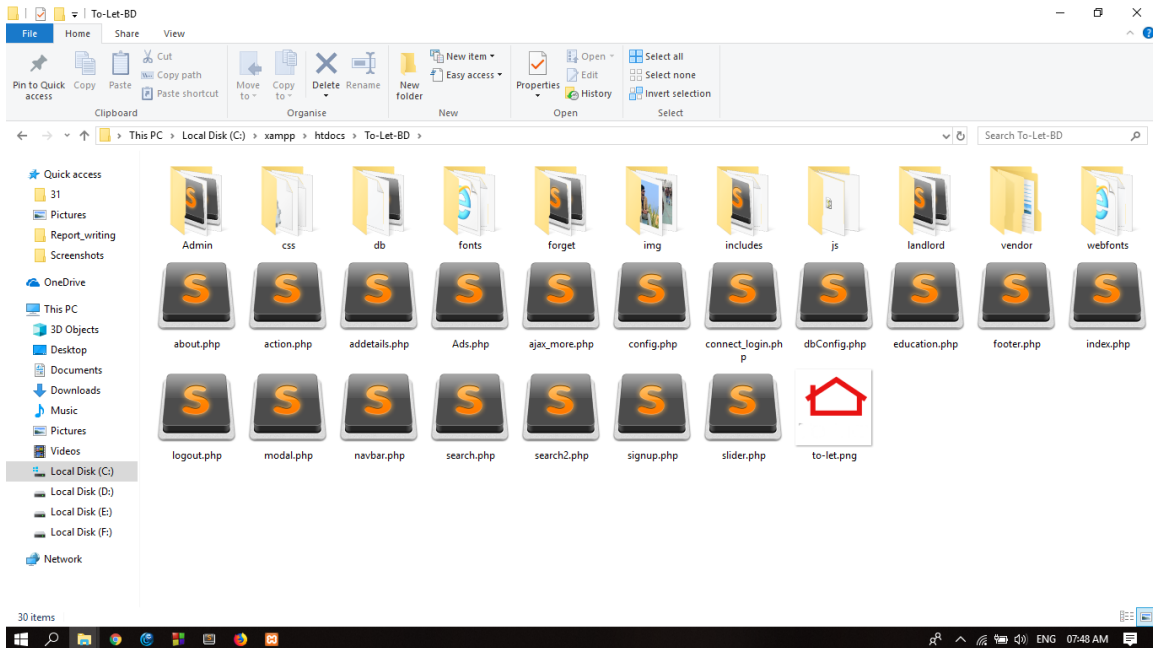


Figure A.1: Screenshot of Directory File

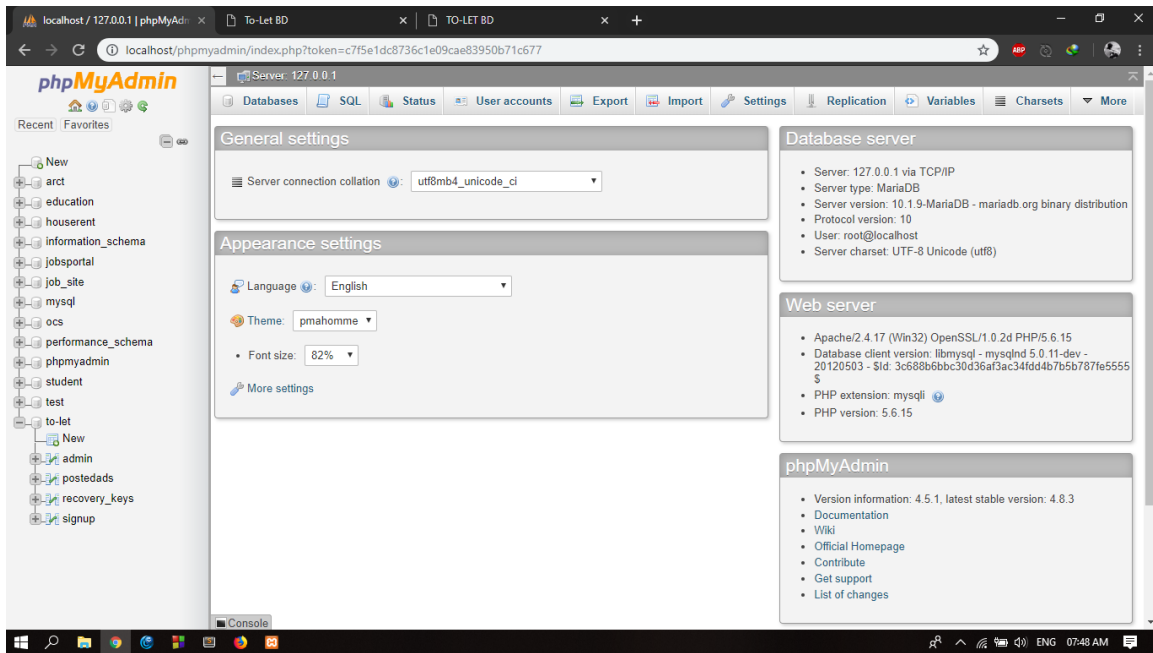


Figure A.2: PHP My Admin Front Page

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