

Abstract

In this project, we developed a house rental website called “Shukhi Nibash”. Using this website anyone can rent houses online. This will be helpful for the people of our country as there is no such websites for renting houses online. In our website users can log in with their email and password. They can search for the available houses. Tenants can search for the required houses online which will give them a hassle-free experience and they will be able to find their desired houses very easily. In our website a user can log in as tenant or owner as per as their need. If a home owner wants to upload houses for rent, he can also do it with our website as it has the options for adding houses for rent. The houses that are added by the owner will be visible to the tenants for renting. Tenants can request for booking the houses and they will see the requested houses in their profile. After the owner accepts the requests, tenants will get notifications of the acceptance .Owners will also have the notifications. Owners can add houses as well as delete them. The tenants can see the house details in the details option of the houses. There will be the owners email available in that so they will be able to contact the owner. There is also option for sending direct mail to the control admin of the website with email from the about page.

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Chapter 1: Introduction

Online house rental reduce labour and mental stress of millions people by providing them a lot of options in choosing their desired apartments. Earlier it was very difficult task for a person to roam around to choose an apartment he likes. Even yet in our country we don't have enough well-structured house rental websites where people can easily find an apartment in the city/area he wants. So we developed an online house rental website named "Shukhi Nibash" for people of Bangladesh which can reduce their trouble in choosing their dream space. Our aim was to make every features of the website very user-friendly so that people of any age can easily access our website and can rent their desired apartment by few clicks only.

A person's overall lifestyle gets impacted by the environment where he stays most of the time in a day. For leading a quality lifestyle, a good apartment in a good environment is very necessary. But often we cannot find our desired house in a friendly environment even though we have ability to afford it. It generally happens due to lack of information. By roaming here and there it is nearly impossible to collect all the information about apartments in specific area ,its vacancy ,present rent, vacant floors ,condition of house ,lift availability etc. So if someone could find all the information in a systematic way together in a website then it could be very much helpful for him to choose a perfect apartment. Keeping this in our mind we made our step in building a house rental website for our country where anyone can choose and rent apartments from any city with reduced efforts and great efficiency.

Our website will provide the benefits for both the house owners as well as the tenants. House owners will be able to give their house to rent very easily with our website which was a difficult task earlier with the traditional systems. This will reduce the labour and be beneficial for the person who is looking for a house of his choice .Mainly it gives freedom of choice to the users to choose from a variety of choices that are available in the website. On the other hand there are dynamic options for both house owners and tenants. Owners can add and delete houses dynamically.

Chapter 2: Project Description

2.1 LANGUAGE AND PACKAGES USED

2.1.1 Html

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. We used HTML 5 for frontend design.

2.1.2 CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS stands for cascading style sheets. In short, CSS is a design language that makes a website look more appealing than just plain or uninspiring pieces of text. Whereas HTML largely determines textual content, CSS determines visual structure, layout, and aesthetics. We used CSS for making the design more lucrative.

2.1.3 Bootstrap 4

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains HTML, CSS and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components. It is mainly used for designing the frontend of our website.

2.1.4 JavaScript

JavaScript often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web. We used it for interaction among the document object model (DOM).

2.1.5 PHP

PHP stands for Hypertext Preprocessor and is a server-side programming language. A good benefit of using PHP is that it can interact with many different database languages including MySQL. We work with MySQL since this is also a free language so it makes sense to use PHP.

Both PHP and MySQL are compatible with an Apache server which is also free to license. PHP can also run on Windows, Linux and UNIX servers. It is mainly used as a backend technology for our website.

2.1.6 MySQL

MySQL provides a implementation of a SQL database very well suited for small to medium web pages. The database is free and open source with a commercial license available (MySQL is now owned by Oracle after they bought Sun). MySQL has one major advantage, since it is free, it is usually available on shared hosting packages and can be easily set up in a Linux, UNIX or Windows environment.

2.2 HOME PAGE

2.2.1 Header

Header section includes the logo of our website, home, about, available home, contact options. It also has the register and login option.

2.2.2 Body

Body section includes searching option for the visitor of our website. While logged in as user, it will have various parts such the available houses page and other info.

2.2.3 Footer

In this section mainly we have the contact info as well as the developer rights info of our website. With this option mainly the visitors of the website will get a clear idea of the website.

2.3 LOGIN AND REGISTER

2.3.1 Login

With this option user can login to our system. Mainly it will take the users gmail and password option for this and after that the user can login in the system to use it properly. It helps the system to recognize the users.

2.3.2 Register

It is mainly a system for the new users who aren't already member of the website. He has to register for the features of house renting as well as giving rents.

2.4 TENANT PROFILE

2.4.1 Available house

This is mainly an option for the tenant to see the available houses for rent. He can click in the available house options and can see the houses properly. There is also an option for log out from the account of the tenant. That can be used for the sign out from the website.

2.4.2 Profile options for tenant

There are several options for the tenant in the profile section. He can see the personal info in the profile section and can edit the info according to need. There will be options for both the requested houses by the tenant as well as the tenant can see the houses that's request is being confirmed by the owner of that house and this will be shown as a confirmation notification to the tenant. After seeing the notification he also has an option for clearing the notifications which he has seen already. The houses that are shown in different columns.

2.4.3 Contact option for tenant

If tenant wants to contact with the owner of the house he can contact him with the email that is provided with the details of the houses that are available to rent. On the other hand if he wants to contact the developers of the website or the main admin then he has the option to send a direct message as email through contact us option. The mail will be sent to the developers email id.

2.4.4 Requested house show

Tenant can see the houses that he requested in his profile. This feature mainly helps the tenant to see the total houses that he has requested for rent. This will help him to have an idea of how many houses he has applied for rent.

2.4.5 Booked house show

Tenant can also see the booked houses in his profile. He can see all the booked houses in his profile separately in this section. The houses which requests are approved by the house owner only those will be shown here.

2.4.6 Notification option

There is a notification option for the tenant. He will receive the necessary notifications in that option. This will let him know that if the house owner has accepted his request of booking.

2.4.7 Search option

Tenant can search for his desired house with the search bar. The search bar has several criteria such as address, rent type and the price range.

2.5 OWNER PROFILE

2.5.1 Add house for rent

It is mainly an option for the house owner to add new house for rent. With this feature the house owner can add new houses with detailed information like rent type, house address, rental value, and road no, house no, floor no, bedroom etc. This will be very helpful for the owner to add the houses in the website.

2.5.2 Owners home list

In this section mainly the homes that the owner owns will show up. This will be very beneficial for the owner as he will be able to know how many houses are there to be rented. There's another option for the house owner to see the booked house notifications.

2.5.3 Edit profile option

With this option the owner can update his personal info in his profile. This can be useful for the owner to update any missing info of his so that he gets the tenants with right contacts.

2.5.4 Notification menu

This is mainly a notification option for the owner. With this option owner can see the notification of the tenants that have requested for the houses. He can also accept the requests and clear the notification. After the owner accepts the requests a notification will be send to the tenant of confirmation of booking. Owner can also reject the request if he wants.

2.5.5 Request Acceptance and Rejection

Multiple users can request for one house, the owner will decide which to accept and which one to reject. He can either accept or reject the requests of the tenants.

2.5.6 House details

Owner can see the house details that he has added for the house. Only he has the option there to cancel the booking. Owner can decide which request to keep and which to delete from the details options of the houses.

Chapter 3: User Interface

3.1 HOME PAGE AND REGISTER OPTION

We designed the home page our website with the motto “Find Your Dream Place”. There is also register option for the new users.

3.1.1 Home Page

We developed the layout of our homepage with HTML5, CSS3 and Bootstrap 4.

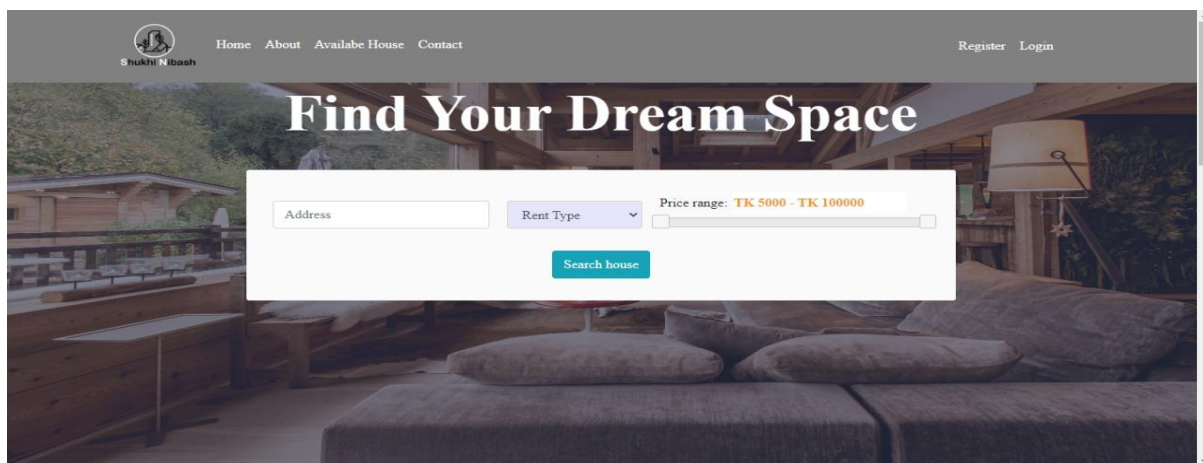


Figure 3.1: Home Page.

3.1.2 Register Page

In the register page a user can register by providing her first name, last name, email and password.

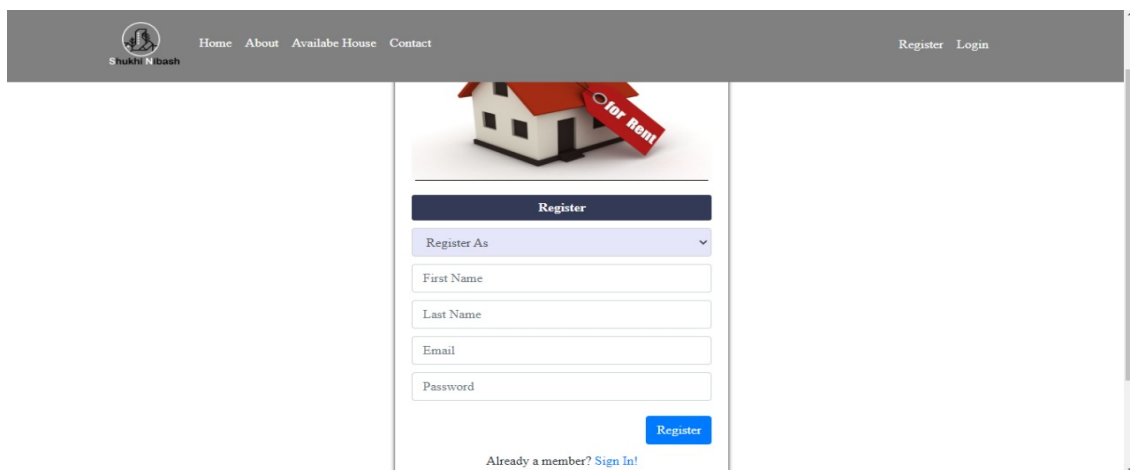


Figure 3.2: Register page.

3.1.3 Login page

In this page a user can log into our website by providing accurate email and password.

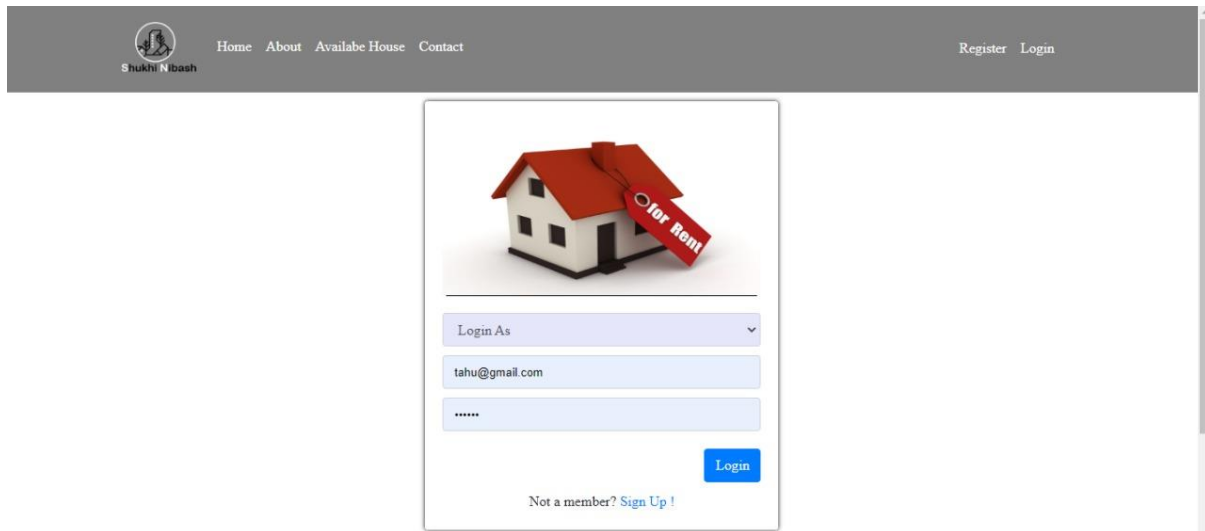
The screenshot shows the login page of a website. At the top, there is a navigation bar with a logo on the left and links for 'Home', 'About', 'Available House', and 'Contact' in the center. On the right side of the navigation bar are links for 'Register' and 'Login'. The main content area features a central box with a 3D house icon and a red 'For Rent' sign. Below the icon is a 'Login As' dropdown menu, followed by input fields for the email 'tahu@gmail.com' and a masked password '*****'. A blue 'Login' button is positioned to the right of the password field. At the bottom of the box, there is a link that says 'Not a member? Sign Up !'.

Figure 3.2: Login Page.

3.2 TENANT OPTIONS

In this part the tenant has to login first with selecting tenant option. After that tenant can do several tasks. Like updating info, search for houses, get notification etc.

3.2.1 Update profile

Tenant can update profile info with this feature very easily. Updates will be visible after saving.

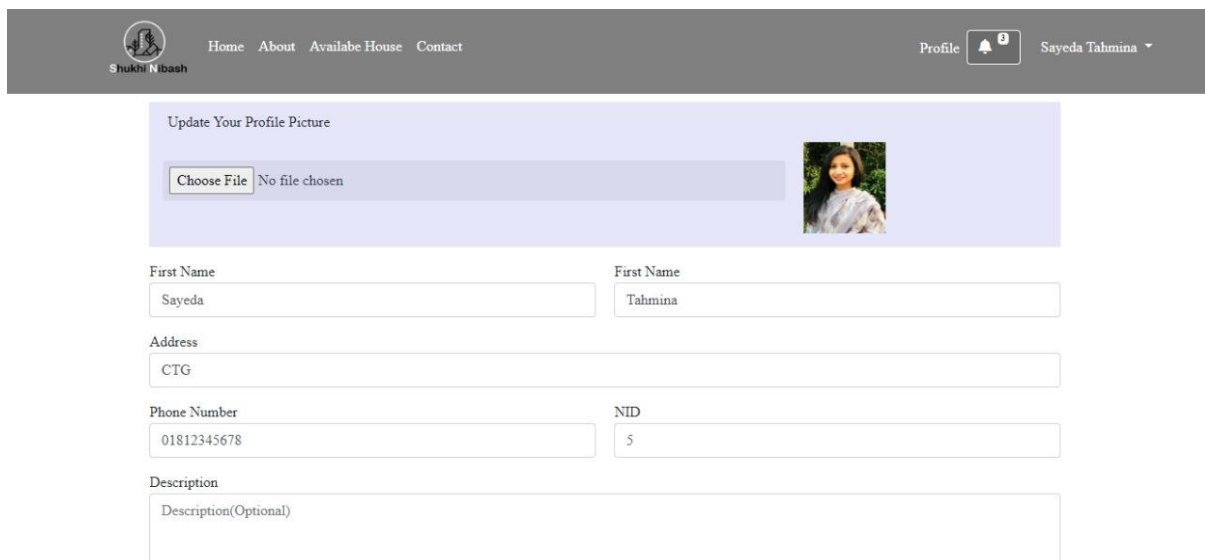
The screenshot displays the 'Update profile' page for a tenant. The top navigation bar includes the website logo, links for 'Home', 'About', 'Available House', and 'Contact', and a user profile section on the right with a 'Profile' link, a notification bell, and the user's name 'Sayeda Tahmina'. The main content area is titled 'Update Your Profile Picture' and contains a 'Choose File' button next to the text 'No file chosen'. To the right of this is a small profile picture of a woman. Below the picture update section are several form fields: 'First Name' (containing 'Sayeda'), 'Last Name' (containing 'Tahmina'), 'Address' (containing 'CTG'), 'Phone Number' (containing '01812345678'), and 'NID' (containing '5'). At the bottom is a 'Description' field with the placeholder text 'Description(Optional)'.

Figure 3.4: Update profile of tenant.

3.2.2 Available houses

Here the available houses will be visible to the tenant.

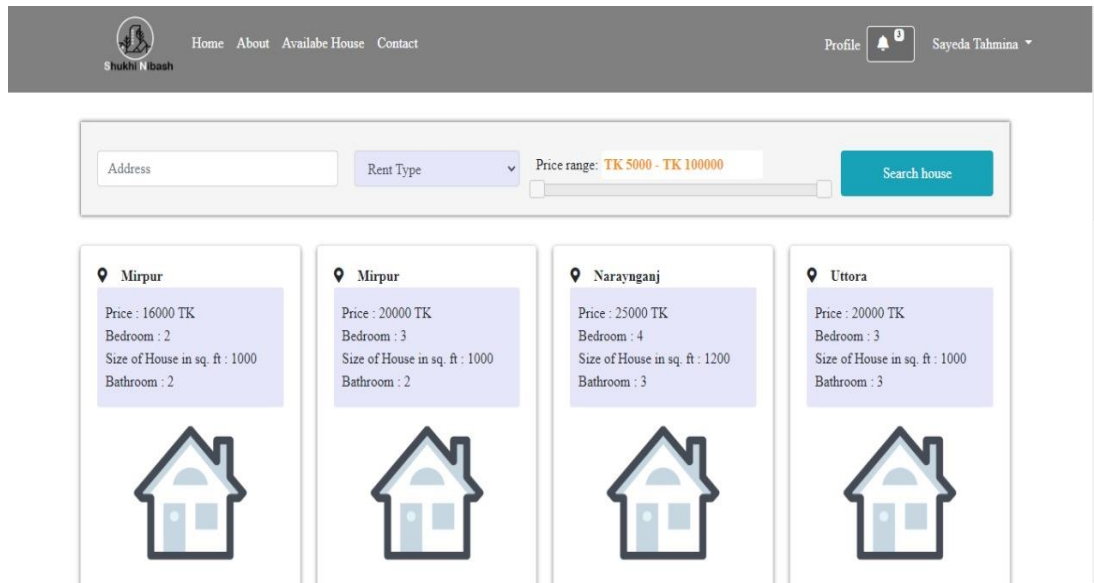


Figure 3.5: Available houses for tenant.

3.2.3 Search houses

Mainly the tenants can get the houses of demand by searching with the criteria.

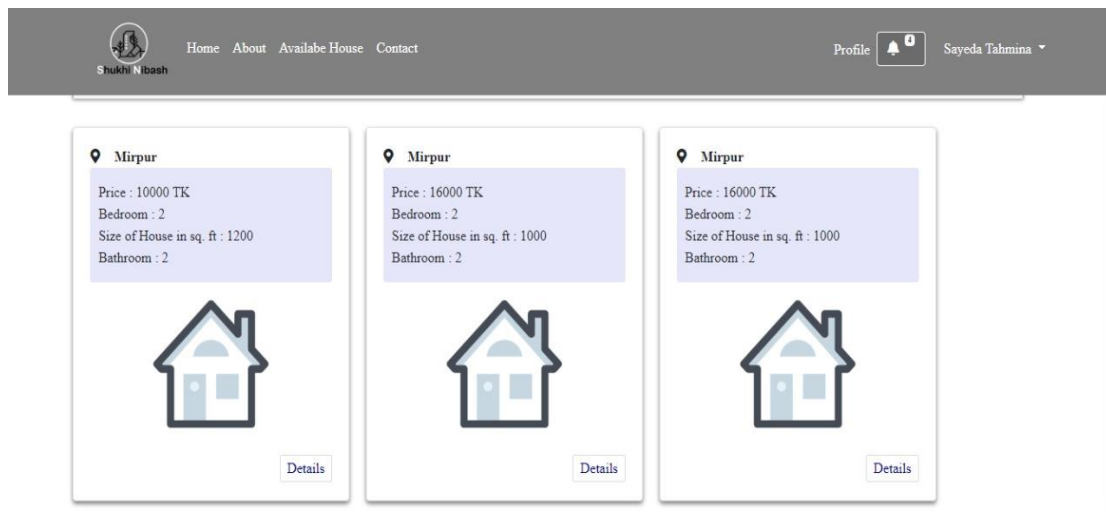




Figure 3.6: Search Result for houses.

3.2.4 House details

After searching tenant can select a house to see details of it.


[Home](#)
[About](#)
[Available House](#)
[Contact](#)

[Profile](#)

[Sayeda Tahmina](#)




Owner Gmail: tahu@gmail.com

Figure 3.7: House details.

3.2.5 Options for booking

Tenant can request for booking of the houses as well as contact us.

[Profile](#)

[Sayeda Tahmina](#)

[Request for rent](#)

[Contact us](#)

Figure 3.8: Options for booking.

3.2.1 Request for booking

Tenant can request owner for booking the house.

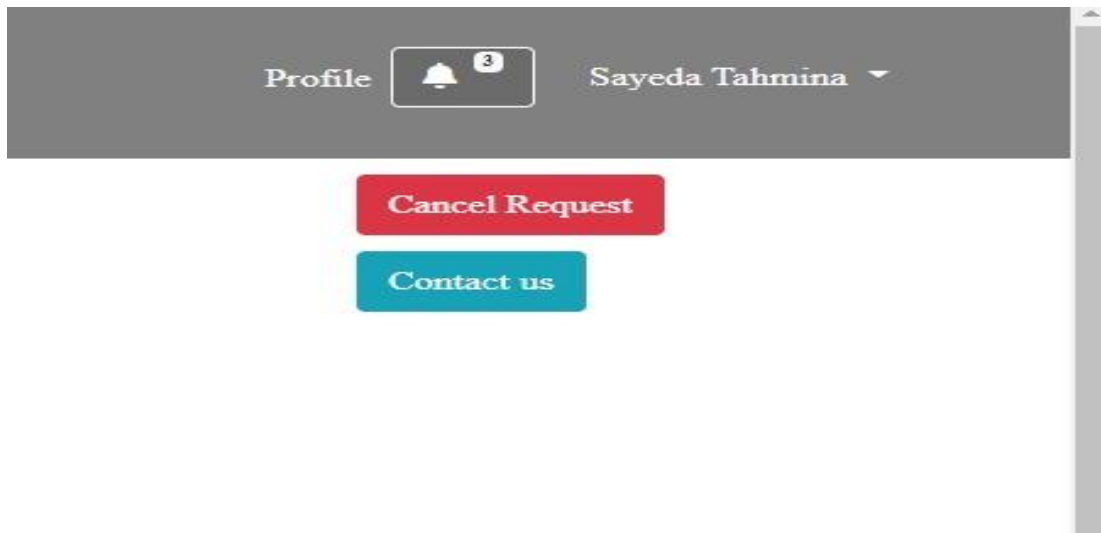


Figure 3.9: Request for booking.

3.2.2 Requested house list

Tenant can see all the requested home list in his profile.

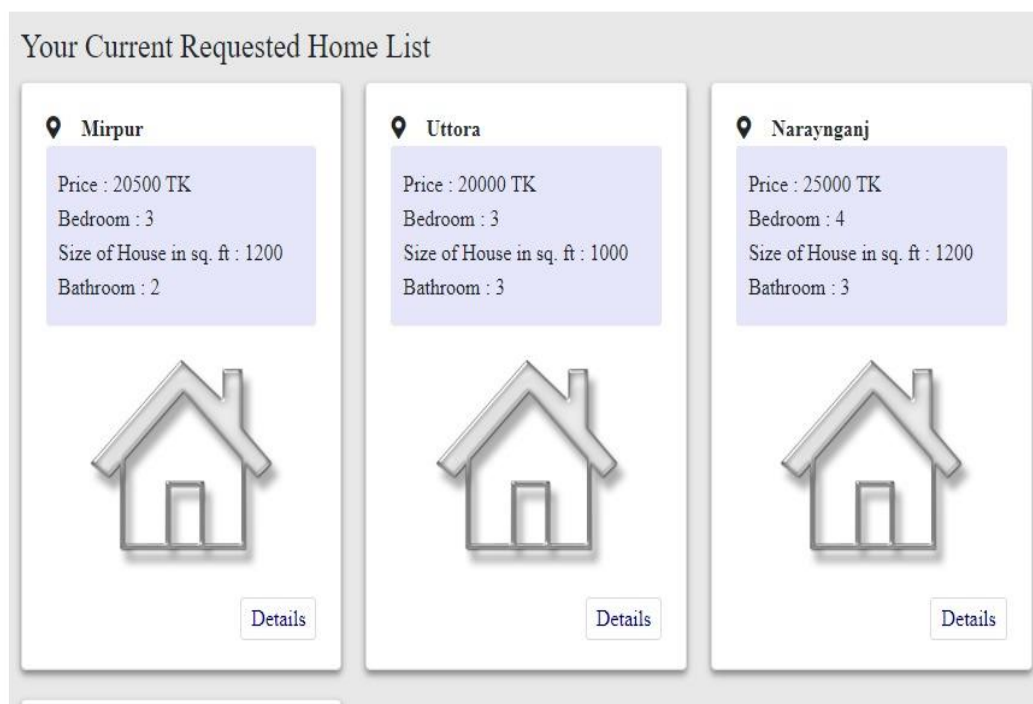


Figure 3.10: Requested home list.

3.2.3 Notification of booking

Tenant will get notifications after the owner accepts their requests.



Figure 3.11: Notification of booking.

3.2.4 Booked home list

Tenant can see the booked home list.

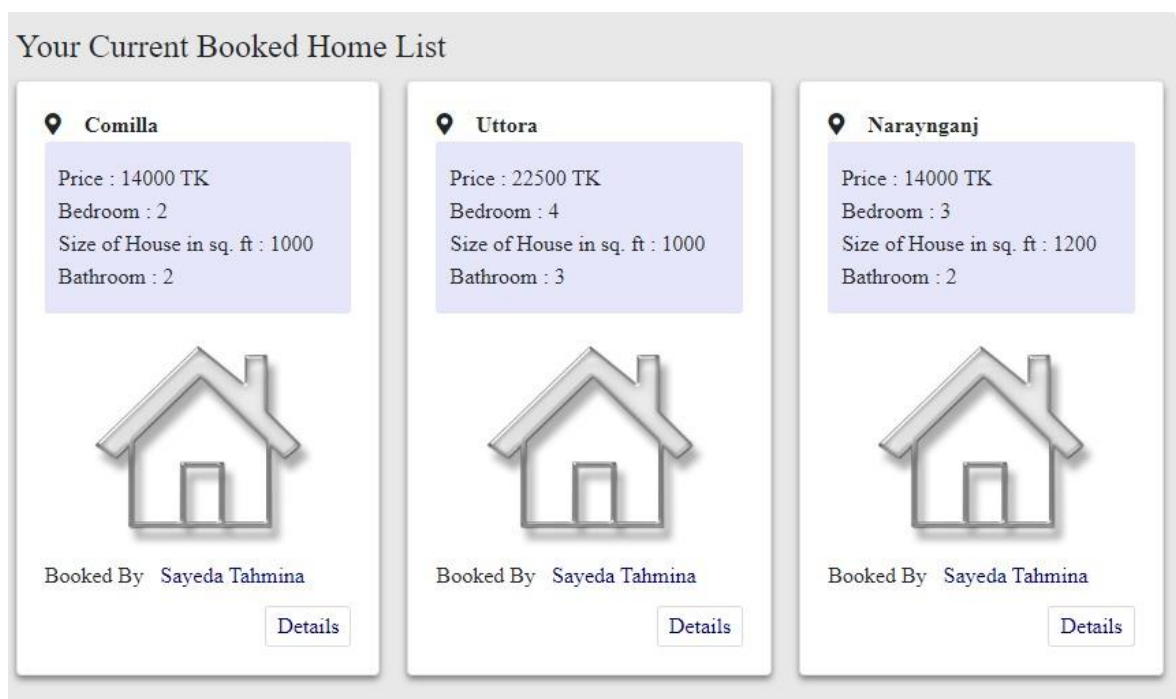


Figure 3.12: Booked home list.

3.3 OWNER OPTIONS

3.3.1 Owners profile

Owners profile will have the options such as add rent, notifications, edit info etc.

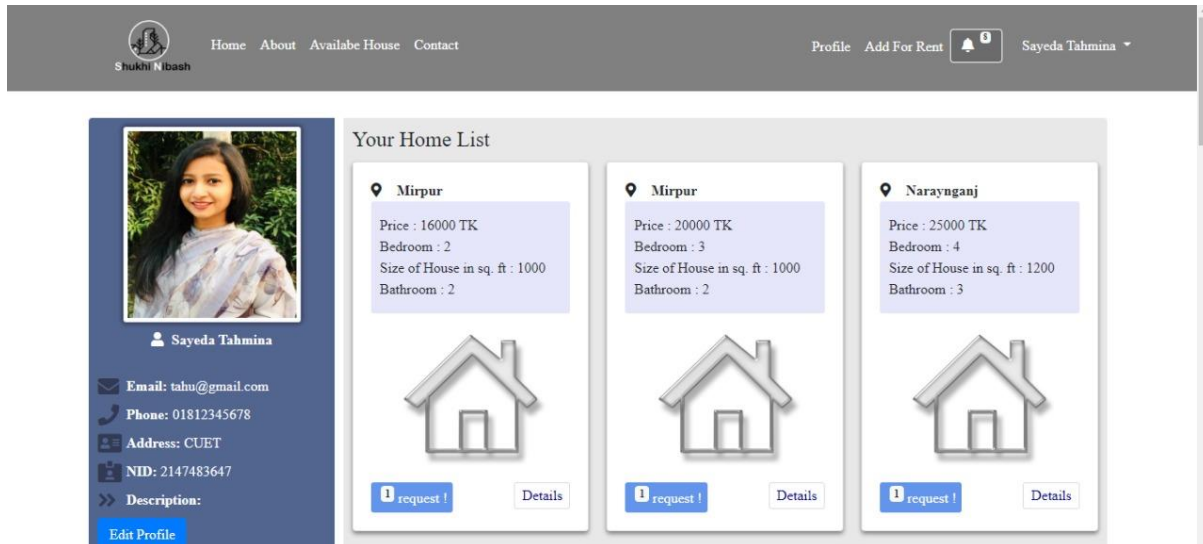


Figure 3.13: Owner's profile.

3.3.2 Add House

Owner can add houses for renting in our website. She can update it dynamically.

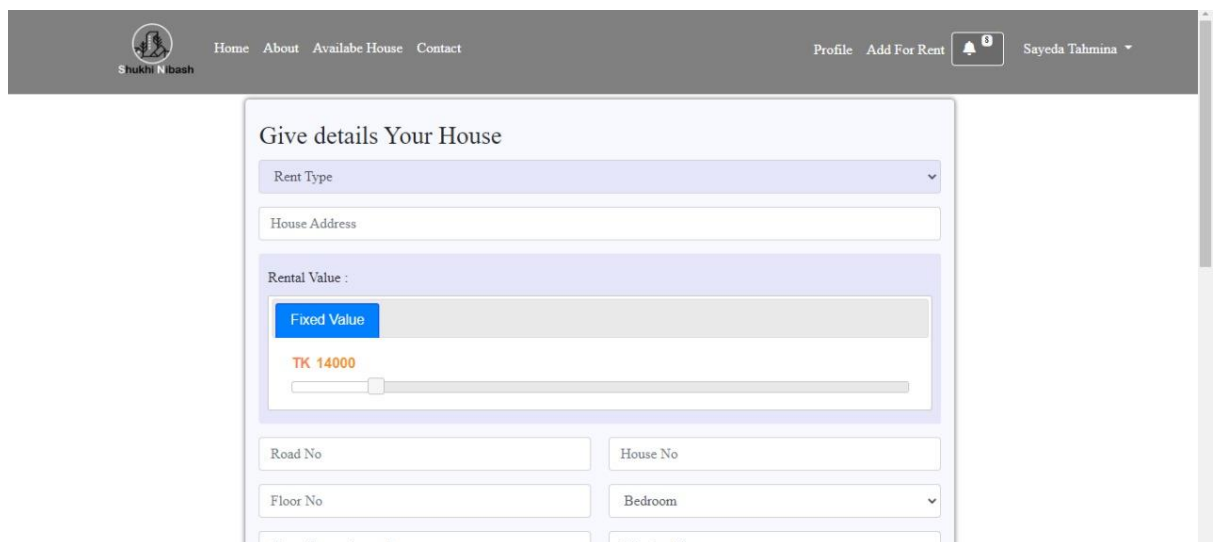


Figure 3.14: Add house option for owner.

Shukla Bhasha

Home About Available House Contact

Profile Add For Rent 0 Sayeda Tahmina

Bathrooms

Add image of your House(Optional and Maximum 3)

Choose File No file chosen + -

Description(Optional)

Add For Rent

Figure 3.15: Add house option for owner remaining part.

3.3.3 Owners home list

Owner can see the homes that she has added so far in the website from his profile.

Available House Contact

Profile Add For Rent 3 Sayeda Tahmina

Your Home List

Location	Price	Bedroom	Size of House in sq. ft	Bathroom
Mirpur	16000 TK	2	1000	2
Mirpur	20000 TK	3	1000	2
Narayanganj	25000 TK	4	1200	3

Each listing includes a house icon, a '1 request !' button, and a 'Details' button.

Figure 3.16: Owners home list.

3.3.4 Requests of homes booking

Multiple users can request for a house from a house owner .The owner will accept if from them.



Figure 3.17: Home booking requests.

3.3.5 Notifications of request

Owner will have notifications of requests that are requested by the tenants.



Figure 3.18: Home booking requests notification.

3.3.6 Accepting requests

Owner will accept requests from the tenants and this will generate a notification to the tenants again.

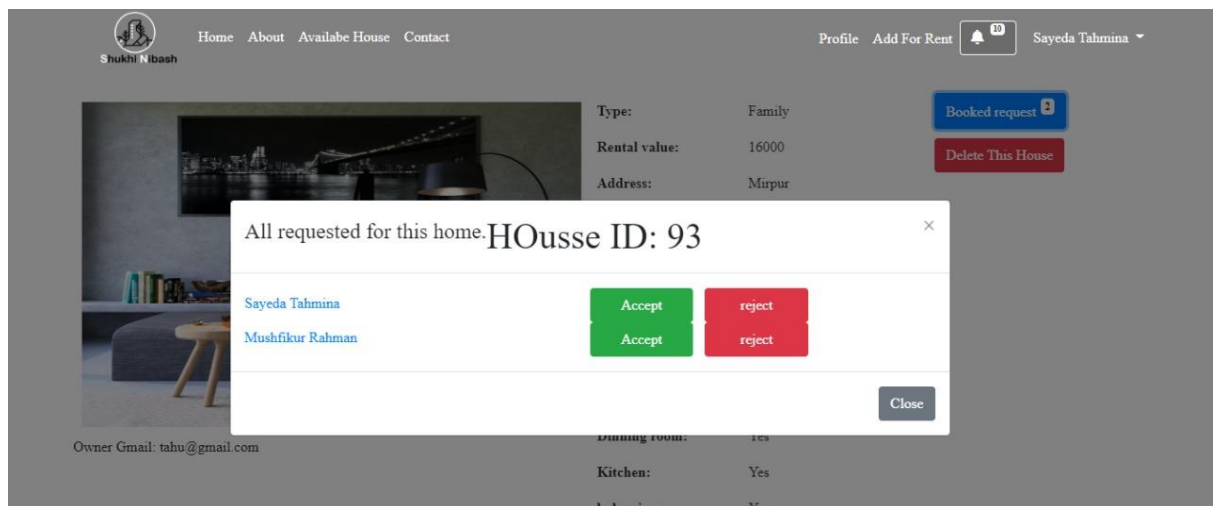


Figure 3.19: Accepting requests of tenants.

3.3.7 Sending email to developer

Owner as well as tenant can send mail to the developer of our website.

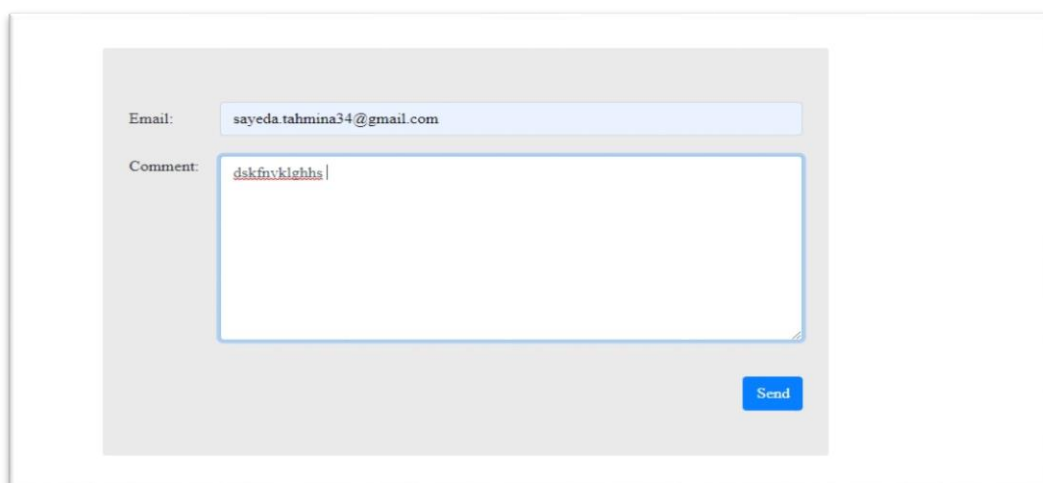


Figure 3.20: Sending mail to developer.

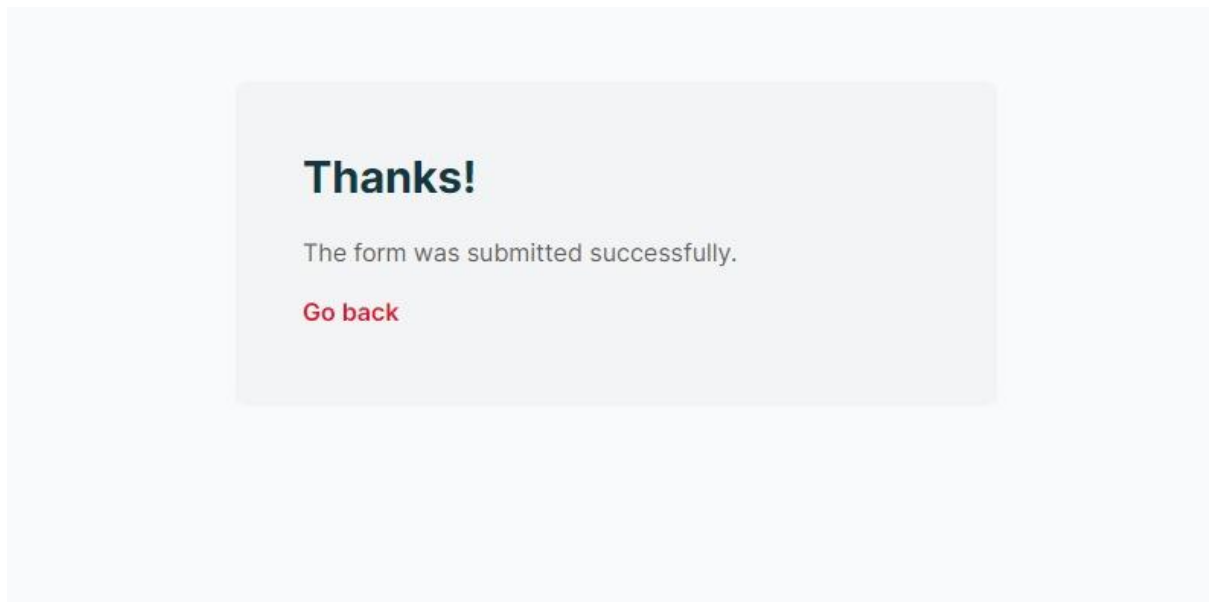


Figure 3.21: Sending mail to developer Success.

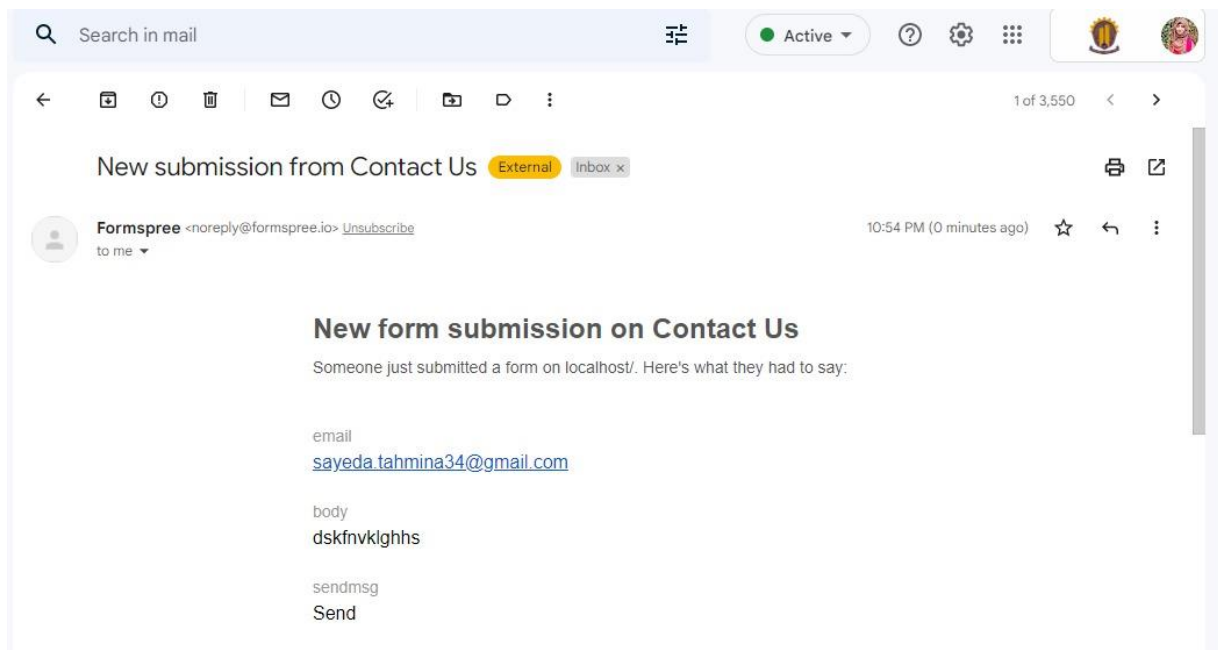


Figure 3.22: Sending mail to developer success in Gmail.

Chapter 4: Testing

4.1 REGISTRATION PAGE

4.1.1 Password Mismatch

During registration if the password and confirm password doesn't match, the error mentioned below is displayed.

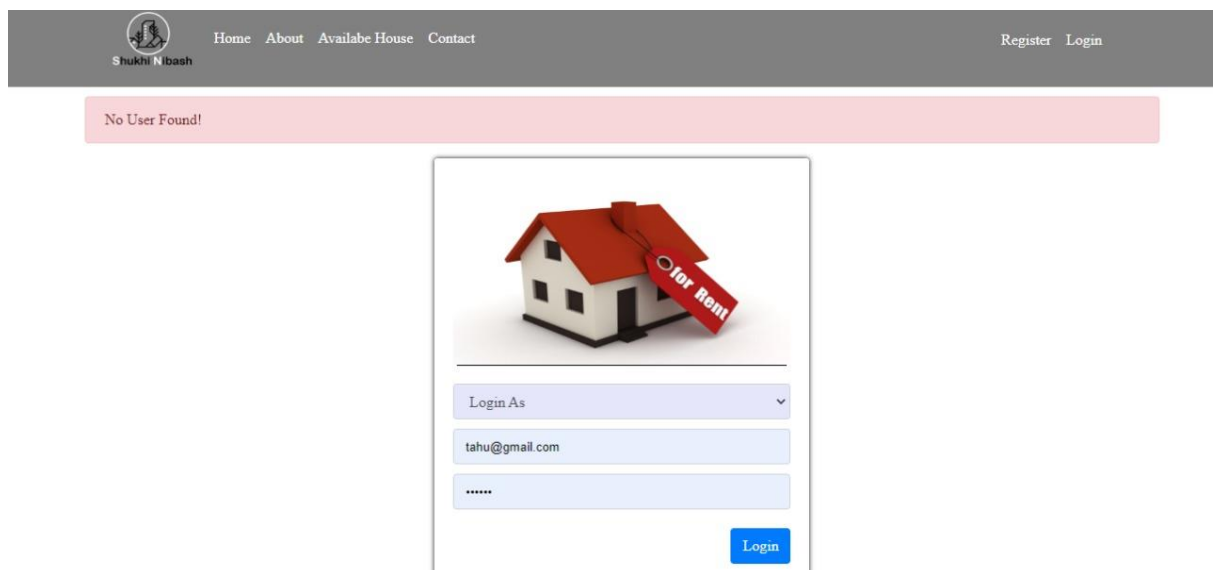


Figure 4.1: Password Mismatch of login.

4.1.2 Form cant fill-up without required fields fill-up

A screenshot of a web application's rental form. At the top, there is a dark grey navigation bar with links for 'Home', 'About', 'Available House', 'Contact', 'Profile', and 'Add For Rent'. A yellow warning box with an exclamation mark icon and the text 'Please select an item in the list.' is visible. The main form area is light blue and contains a 'Rental Value' section with a 'Fixed Value' button and a slider set to 'TK 14000'. Below this, there are several input fields: a text field with '5', a text field with '102', a text field with '3', a text field with '2', a text field with '1000', a dropdown menu with 'Yes', a dropdown menu with 'Yes', a dropdown menu with 'Yes', and a dropdown menu with '2'.

Figure 4.2: All required fields are needed to fill first.

Chapter 5: Conclusion

Though our time was limited to complete this whole project but we have tried to give our best effort to accomplish our task successfully. So many scopes are there to upgrade our project in future and to add more features to our project which will be the solution of more real-world problems. Still, we hope people from all walks of life can be benefited by using our website. We believe our website will reduce their labour and mental stress in a great extent. We will look forward to get more feedbacks from our valuable users and we will try to solve all the issues/bugs to take our website ‘Shukhi Nibash’ to the next level.