

DIGITAL TO-LET SYSTEM

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Software Engineering.

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APPROVAL

This Project titled as “**Digital To-let System**”, submitted by **Nijhum Sultana** to the Department of Software Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Software Engineering and approved as to its style and contents.

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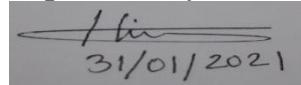
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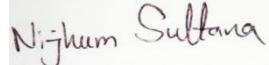
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Finally, I must acknowledge with due respect the constant support and patience of my parents.

EXECUTIVE SUMMARY

The “**Digital To-Let System**” is a web-based project that will help the general people for the sake of searching rented home/seat/sublet. The development process of “**Digital To-Let System**” is started from December, 2020. I had to think about a relevant problem regarding to our accommodation sector. Then I have tried my level best to think as an end user and polish my base idea and make it much detailed as possible. This documentation is the final result of that base idea.

The main purpose of “**Digital To-Let System**” is described in the first chapter. By going through it, one can understand the project Overview, Background, Goals and Benefits of the project. It also introduces the Stakeholders of the project. One can also get rough idea by going through the system model in this section.

The second chapter contains all the requirements of the stakeholders. These requirements were needed to be fulfilled by the system. These are mainly the functional requirements and non-functional requirements.

The third chapter contains the system analysis part. This part will describe the Use Case Diagram with description, Activity Diagram and Sequence Diagram. This part is based on analysis.

The fourth chapter contains the Development Tools and Technology. One can also find the Entity Relationship Diagram and Class Diagram.

The fifth chapter has system test case. Because developing is not the end of the project. It has to work perfectly before we can call it a functional project. For this, we have to make sure the quality of the product by undergoing various test cases.

We all know that, the User manual acts as a guide for the user. It helps them to get easily interact with the system. It contains all the information on how the system can be used properly and get information through the system. The sixth chapter will define briefly as much as possible.

The last chapter lists the conclusion part including GitHub Link, Project Summary, Limitations and Future Scope. I also included the list of all the resources as references that helped me to complete my project here.

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CHAPTER 1

INTRODUCTION

1.1 Project Overview

Bangladesh is the most densely populated country in the world. Bangladesh ranks 11th in terms of population density. That's why its population faces an accommodation problem.

Bangladesh is improving the Educational sector day by day. Even the Rural students have realized the value of education. They are moving to the city for the sake of satisfying their hunger for education. As all the students don't belong to a well-established family, so they want to complete their education with limited expenses.

In our country, all industrial factories are situated in urban areas. That's why everyone from the lower class people to the upper-middle class is moving to the city. That's why there is a crisis for housing every year.

Most of the people are rushing from villages to cities for better treatment as all the well-facilitated hospitals are located in urban areas. Many have no relatives in the town. They face more problems in this case.

If we consider the situation a few months ago, we see that Bangladesh, like other countries, is in the grip of an epidemic. As a result, many have lost their jobs and have been forced to return to their respective villages. The homeowners have also suffered for this. But it will not be easy to find a home by maintaining safety when everything is back to normal and everyone is back at work.

By using Digital To-let System, people can easily search for home and able to alleviate the difficulty of finding their home.

1.2 Project Purpose

The “**Digital To-Let System**” is a web-based project that will help the general people for the sake of searching rented home/seat/sublet. As our country is a densely populated country that’s why every moment there is a crisis of accommodation. My system will help a tenant to find his/her desired home or seat or sublet which is given by the Owner. If he/she wants to contact the Owner, he/she can easily get the information through the system. On the other hand the system will not only solve the tenants’ problem but also able to solve the owners’ problem by getting information from tenant.

1.2.1 Background

Previously I have mentioned that Bangladesh is the most densely populated country and there is a lack of accommodation. I will not deny that there is no other source for rent. Of course there is, but I mean to say there is not a proper source. The owner still puts up posters to rent out their house, which seems unreasonable to me. Because now a days, everything in under the internet. So, I think Digital To-let system is a platform that can remove the all hassles and will be a proper website for the general people.

1.2.2 Benefits and Beneficiaries

My proposed project is **Digital To-let System** that will help the general people for searching rented home. Since my project will not only solve one specific problem, it is also effective in solving many problems at the same time so I think my field of work involves a lot of people at the same time.

My system will help a tenant to find his/her desired home or seat which is given by the owner directly. If he/she wants to contact with the owner, he/she can easily get the information through the system.

My system will help a tenant to find his/her desired home or seat which is given by the owner directly. If he/she wants to contact with the owner, he/she can easily get the information through the system.

There is an option for the tenant that he/she can search temporarily to stay with package requirements. Because most of the people are rushing from villages to cities for better treatment as all the well hospitals are located in urban areas. Many have no relatives in the town. They face more problems in this case. For solving this problem the option will helpful for them.

My system will provide information to the users according to their searching location.

If anyone wants to maintain his/her budget, he/she can also search home/seat according to his/her budget. That's mean it can also solve the budget issue.

Sometimes the owner or general-user has some issues that's why can't hang any to-let for their home/seat. For solving their problem they can create a post and easily can find a tenant.

1.2.3 Goals

My goal is to help the general people to fulfill their one basic need which is Accommodation needs. My project will not only solve the accommodation problem but also take care of the budget of the people as well as be able to stay in the location of their choice. So, I just want to help them through my project.

1.3 Stakeholders

In my project, I have defined four stakeholders. They are Admin, Owner, Tenant & Guest. Admin, Owner & Tenant are my internal stakeholders and Guest is my external stakeholder.

1.3.1 Owner

An owner is the owner of property (such as land, houses, apartments and hostels) that is leased or rented or another. In my system, the Owner can create a post for tenant, can view/delete/edit post if it is created. He can also view the tenant necessity post which is given by tenant.

1.3.2 Tenant

A tenant has the occupation or temporary possession of lands or tenements of another. In my system the tenant can search his/her desired home according to his/her choice (location or budget). The system will also help the tenant to create a post for his/her need which can be seen by the owner.

1.3.3 Guest

In my system, the guest users can only have the access to view some selected information. Guest users don't have the access to search home. But the guest user can ask any question to the system admin providing with his/her email.

1.3.4 Admin

The whole system will be supervised by Admin. He has the access to the all posts which is submitted by tenants and owner. He has the authority do delete posts. In a word, Admin is all in all in the system.

1.4 System model for Digital To-Let System

For developing my project I have proposed a system model. This will clarify the system in a brief.

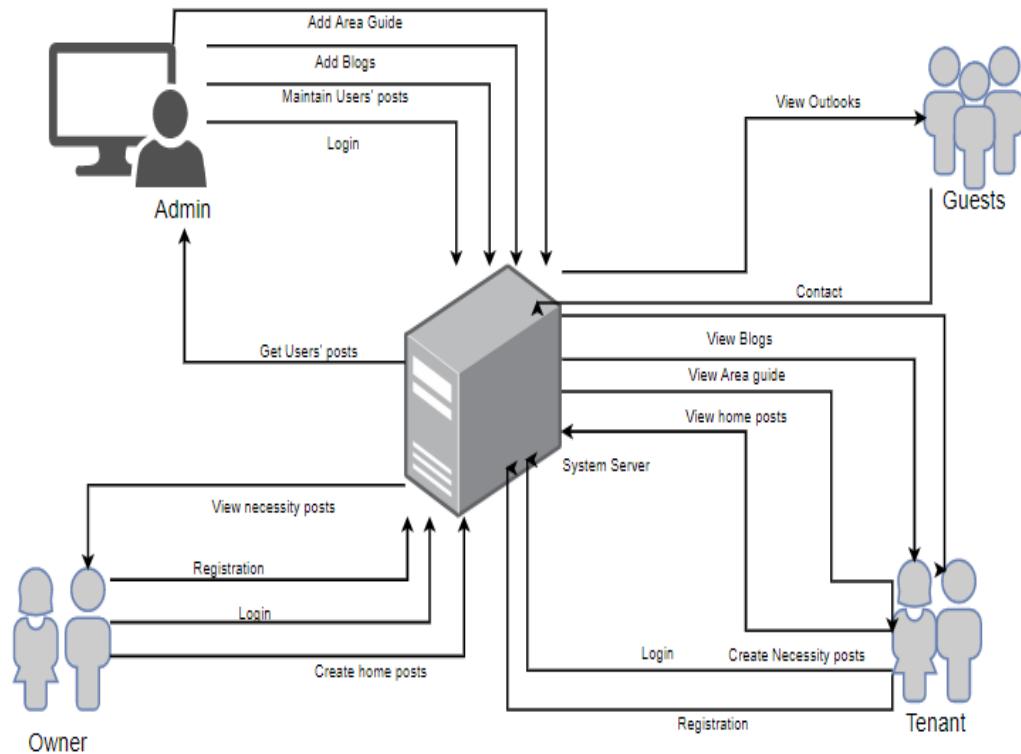


Figure 1.1: System Model for Digital To-Let System

In this system, there are four different users can interact with the system. Admin can maintain the users' posts and also have access on Area guide and Area blog. Owner only has the full access on his/her own property post and only can see the necessity posts created by tenant. Tenant has the full access on his/her on necessity post and can see the property post created by owner. Tenant can also view the Area guide and Area blog. The guest has only the access on some features like contact, about system etc.

CHAPTER 2

SOFTWARE REQUIREMENT SPECIFICATION (SRS)

We all know that, a project must be developed by considering with requirements. Without requirements, no one can build a single project. In this portion we are going to discuss the requirements related to my project.

2.1 Functional Requirements

There is no system without functional requirements. Therefore, I have tried to find out the functional requirements and arrange them considering to their priority in my project.

Priority Chart

It is a technique to assemble the requirements according to priority. Using this technique, we can easily categorized the functional requirements that can be performed by my system and can identify which function should get High Priority and which one should get Medium Priority and which one get Low Priority.

There are two parts of a Priority Matrix such as Important and Urgent.

If any function is:

Important also Urgent =High Priority

Important but not Urgent =Medium Priority

Not Important but Urgent =Low Priority

Not Important and not Urgent =Ignore

Important/Urgent	Yes	No
Yes	High Priority	Medium Priority
No	Low Priority	Ignore

Table 1.1: Priority Chart

FR ID	Description	Important	Urgent	Priority
FR01	Registration for users	Yes	Yes	High
FR02	Login for authenticate users	Yes	Yes	High
FR03	Logout for authenticate users	Yes	Yes	High
FR04	Can create property post	Yes	Yes	High
FR05	Can view property posts	Yes	Yes	High
FR06	Can update property posts	Yes	Yes	High
FR07	Can delete property posts	Yes	Yes	High
FR08	Can view necessity posts	Yes	Yes	High
FR09	Property search by location	Yes	No	High
FR10	Property search by amount	Yes	No	High
FR11	Can create necessity posts	Yes	Yes	High
FR12	Can update necessity posts	Yes	Yes	High
FR13	Can delete necessity posts	Yes	Yes	High
FR14	Can view Area Guide	Yes	Yes	High
FR15	Can view Blog	Yes	Yes	High
FR16	Can add Area Guide	Yes	Yes	High
FR17	Can edit Area Guide	Yes	Yes	High

FR 18	Can delete Area Guide	Yes	Yes	High
FR19	Can add Blog	Yes	Yes	High
FR20	Can edit Blog	Yes	Yes	High
FR21	Can delete Blog	Yes	Yes	High
FR22	Contact with system admin	Yes	Yes	High
FR23	Retrieve password by email	Yes	No	Medium

Table 1.2: Priority of the system features based on Priority Chart

2.1.1 Registration for users

FR01	Registration for users		
Description	Users can create a new account by providing required information through the registration form. The user needs to submit a request post by clicking “Register” button from the Home page.		
Stakeholders	Owner, Tenant, Admin	Priority	High

2.1.2 Login for authenticate users

FR02	Login for authenticate users		
Description	Authenticate users can login to the system by using email and password.		
Stakeholders	Owner, Tenant, Admin	Priority	High

2.1.3 Logout for authenticate users

FR03	Logout for authenticate users		
Description	Authenticate users can logout from the system by clicking “logout” button.		
Stakeholders	Owner, Tenant, Admin	Priority	High

2.1.4 Can create property post

FR04	Can create property post		
Description	Can create a new property post by providing required information. The user needs to submit a request post by clicking “Submit” button.		
Stakeholders	Owner	Priority	High

2.1.5 Can view property posts

FR05	Can view property posts		
Description	Can view property posts by clicking required button.		
Stakeholders	Owner, Admin, Tenant, Guest	Priority	High

2.1.6 Can update property posts

FR06	Can update property posts		
Description	Can update property posts by clicking “update” button.		
Stakeholders	Owner, Admin	Priority	High

2.1.7 Can delete property posts

FR07	Can delete property posts		
Description	Can delete property posts if it seems unnecessary by clicking “delete” button.		
Stakeholders	Owner, Admin	Priority	High

2.1.8 Can view necessity posts

FR08	Can view necessity posts		
Description	Can view necessity posts by clicking required button		
Stakeholders	Tenant, Owner, Admin, Guest	Priority	High

2.1.9 Property search by location

FR09	Property search by location		
Description	Can search property details by selecting location.		
Stakeholders	Tenant, Admin, Owner	Priority	High

2.1.10 Property search by amount

FR10	Property search by amount		
Description	Can search property details by selecting amount/budget.		
Stakeholders	Tenant, Admin, Owner	Priority	High

2.1.11 Can create necessity posts

FR11	Can create necessity posts		
Description	Can create a new necessity post by providing some required information. The user needs to submit a request post by clicking “Submit” button.		
Stakeholders	Tenant	Priority	High

2.1.12 Can update necessity posts

FR12	Can update necessity posts		
Description	Can update necessity information by clicking “update” button.		
Stakeholders	Tenant, Admin	Priority	High

2.1.13 Can delete necessity posts

FR13	Can delete necessity posts		
Description	Can delete necessity posts if it seems unnecessary by clicking “delete” button.		
Stakeholders	Tenant, Admin	Priority	High

2.1.14 Can view Area Guide

FR14	Can view Area Guide		
Description	Can view Area Guide by clicking “Area Guide” option.		
Stakeholders	Tenant, Admin, Owner, Guest	Priority	High

2.1.15 Can view Blog

FR15	Can view Blog		
Description	Can view Blog by clicking “Blog” option.		
Stakeholders	Tenant, Admin, Owner, Guest	Priority	High

2.1.16 Can add Area Guide

FR16	Can add Area Guide		
Description	Can add YouTube link as Area Guide by providing location. The user needs to submit a request post by clicking “Submit” button.		
Stakeholders	Admin	Priority	High

2.1.17 Can edit Area Guide

FR17	Can edit Area Guide		
Description	Can edit Area Guide information by clicking “Edit” button		
Stakeholders	Admin	Priority	High

2.1.18 Can delete Area Guide

FR18	Can delete Area Guide		
Description	Can delete Area Guide if it seems unnecessary.		
Stakeholders	Admin	Priority	High

2.1.19 Can add Blog

FR19	Can add Blog		
Description	Can add blog by providing location. The user needs to submit a request post by clicking “Submit” button.		
Stakeholders	Admin	Priority	High

2.1.20 Can edit Blog

FR20	Can edit Blog		
Description	Can edit Blog information by clicking “Edit” button		
Stakeholders	Admin	Priority	High

2.1.21 Can delete Blog

FR21	Can delete Blog		
Description	Can delete Blogs if it seems unnecessary.		
Stakeholders	Admin	Priority	High

2.1.22 Contact with system admin

FR22	Contact with system admin		
Description	Can contact with system by providing email.		
Stakeholders	Owner, Tenant, Guest	Priority	High

2.1.23 Retrieve password by email

FR23	Retrieve password by email		
Description	If users forget their password, they can retrieve password by email by clicking “Forgot Password?” option.		
Stakeholders	Owner, Tenant	Priority	Medium

2.2 Performance Requirements

Performance requirements defines how well the system performs under the required condition. It can be justified by measuring speed of response, throughput, execution time and storage capacity etc.

2.2.1 Speed and latency Requirements

In some cases, the legal requirements will dictate the response time. User satisfaction is largely dependent on response time in a system. If the system takes more than 10 seconds to load, it will be possibility to avoid the system by the users.

PR01	View and post result should be displayed in less than 1 second		
Description	When the user wants to see any information and want to manage the posts, the result must be shown in less than 3 second time period.		
Stakeholders	Owner, Tenant, Guest, Admin	Priority	High

2.2.2 Accuracy Requirements

Always should show the accurate result for all users. It is not accepted to show any wrong information.

PR02	Information should be accurate		
Description	When the user wants to see any information then the system must ensure that the provided information is most accurate.		
Stakeholders	Owner, Tenant, Guest, Admin	Priority	High

2.2.3 Capacity Requirements

The system should be capable of supporting a certain number of users and a certain number of interactions. It should not get crushed easily.

PR03	Information should be accurate		
Description	When the user wants to see any information then the system must ensure that the provided information is most accurate.		
Stakeholders	Owner, Tenant, Guest, Admin	Priority	High

2.3 Dependability Requirements

Dependability is a measure of a system's services to the users. It is based on five criteria. They are

- Reliability
- Availability
- Maintainability
- Durability
- Safety and Security

In my system, I have used three of them to fulfill the Dependability Requirements.

2.3.1 Reliability Requirements

DR01	System must provide continuity for correct service		
Description	All the information providing by the system must be reliable.		
Stakeholders	Owner, Tenant, Guest, Admin	Priority	High

2.3.2 Availability Requirements

DR02	The availability of the system to deliver services when requested.		
Description	The system must be available 24/7. It must be able to deliver services to the user when requested.		
Stakeholders	Owner, Tenant, Guest, Admin	Priority	High

2.3.3 Maintainability Requirements

DR03	Ability for easy maintenance		
Description	The system should provide the maintenance issue to the user.		
Stakeholders	Admin	Priority	High

2.4 Security System Requirements

System security is one of the most important requirements for any project. For the lacking of security service, the data could be manipulated. The system can face cyber-attack.

SR01: Login as Owner

SR02: Login as Tenant

SR03: Login as Admin

SR04: Logout as Owner

SR05: Logout as Tenant

SR06: Logout as Admin

2.5 Usability and Human-Interaction Requirements

User experience is one of the most important factors to any system. When anyone or any company develops any system, they try to make the system easier. That's why the system must be easy to use, easy to understand and easy to learn.

2.5.1 Ease of Use Requirements

The system is very easy to use and easy to understand. There is no long process to complete a task. User can complete any task with only a few steps.

EUR01	The system must be usable for all type of users		
Description	The system should be usable for the Owner, Admin and Tenant. The Guest user can also able to use the system.		
Stakeholders	Admin, Owner, Tenant, Guest	Priority	High

2.5.2 Understand Ability and Politeness Requirements

The system can be used by all types of people. The system will not use any term that is not specified in this web application.

2.5.3 Accessibility Requirements

The system is very user friendly. It is easy to use and understand for the users. There is no access requirements besides those that has been outline in the below:

AR ID	AR Name
AR01	Login as Admin
AR02	Login as Owner
AR03	Login as Tenant
AR04	Logout as Admin
AR05	Logout as Owner
AR06	Logout as Tenant

2.5.4 User Documentation Requirements

User feedback will be taken and analyzed properly to understand and fulfil their expectations. The requirements will be added to the system after proper analyzation.

2.6 Training Requirements

A simple user manual will be provided to the user for training purposes. The system is really easy to understand so extensive training is not required.

2.7 Look and Feel Requirements

User will feel bored to look at a monotonous user interface. Look and feel requirements provide information on how the system will look like and how the user interface or graphical user interface of the system will display to the user.

2.7.1 Appearance Requirements

LFR01	Mandatory input fields must have visible marking		
Description	If there is any mandatory input field in any form, the field must have visible marking for the user.		
Stakeholders	Owner, Tenant, Admin	Priority	High

2.7.2 Style Requirements

LFR02	All content must appear within the same format		
Description	Input field and other view results must be shown in a specific format.		
Stakeholders	Owner, Tenant, Admin, Guest	Priority	Medium

2.8 Operational and Environmental Requirements

This requirement focuses on how the users operate the system, include in interfaces and interoperability with other systems. The requirement established how the system can perform under conditions.

2.9.1 Expected Physical Requirements

There is no specific expected physical requirements.

2.9.2 The Requirements for Interfacing Adjacent System

There is no specific interface with adjacent system requirements.

2.9 Legal Requirements

Legal requirements are the rules and regulations set by any organization.

2.10 Compliance Requirements

There is no specific compliance requirements.

CHAPTER 3

SYSTEM ANALYSIS

3.1 Use Case Diagram

A use case diagram is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.

In My system, except Admin, all the users are primary actor. Owner can create property posts and Tenant can see those posts. On the other hand, Tenant can create necessity posts and Owner can view the post. Admin can do anything as he/she wants. He/she has the access to all the posts created by any users. Guest users has some specific field.

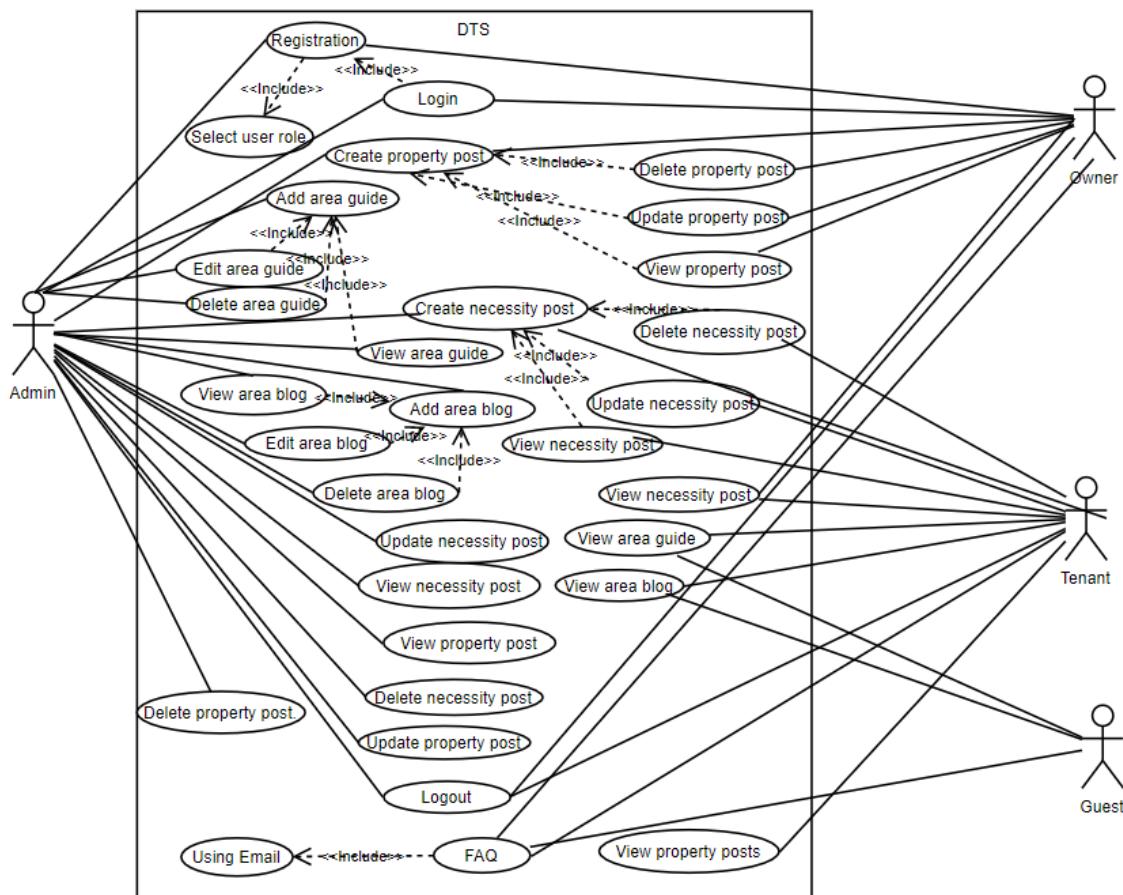


Figure 3.1: Use case diagram for Digital To-Let System

3.1.1 Use Case Diagram for Owner

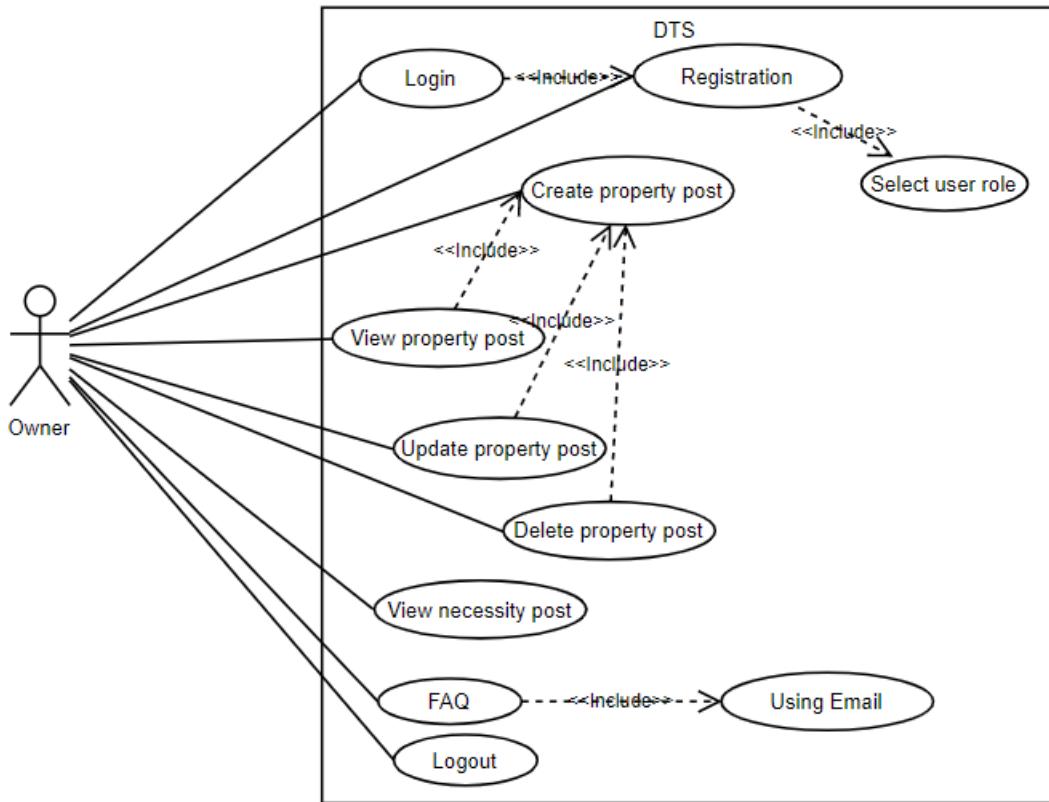


Figure 3.2: Use Case Diagram for Owner

Figure 3.2 represents the Owner Use Case Diagram. In my system, Owner needs to do registration for login to the system. After logging into the system, owner can create the property posts for the sake of rent. He has also the access to make any changes in his/her created posts. Our system will also provide to the owner about Necessity posts created by tenant.

3.1.2 Use Case Diagram for Tenant

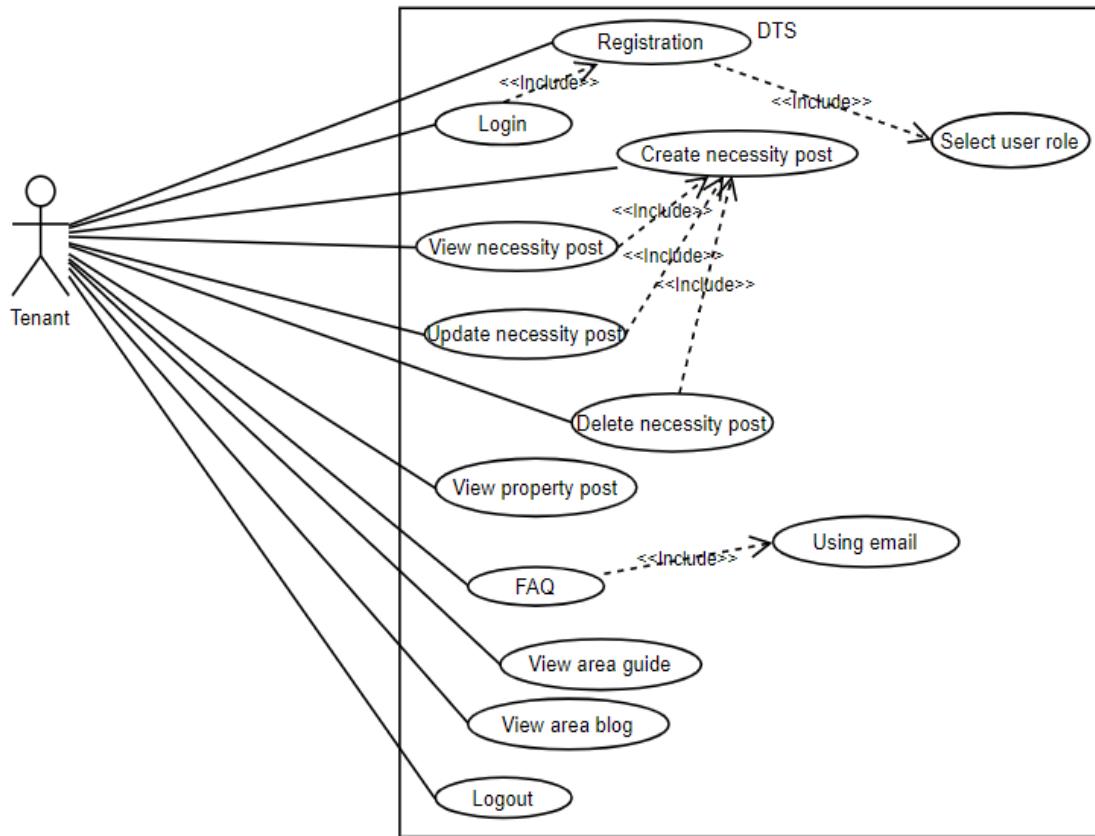


Figure 3.3: Use Case Diagram for Tenant

Figure 3.3 represents the Tenant Use Case Diagram. In my system, Tenant needs to do registration for login to the system. After logging into the system, Tenant can create the necessity posts for the sake of rent. He has also the access to make any changes in his/her created posts. Our system will also provide to the tenant about Property posts created by owner. Tenant can also see the area guide and area blog.

3.1.3 Use Case Diagram for Admin

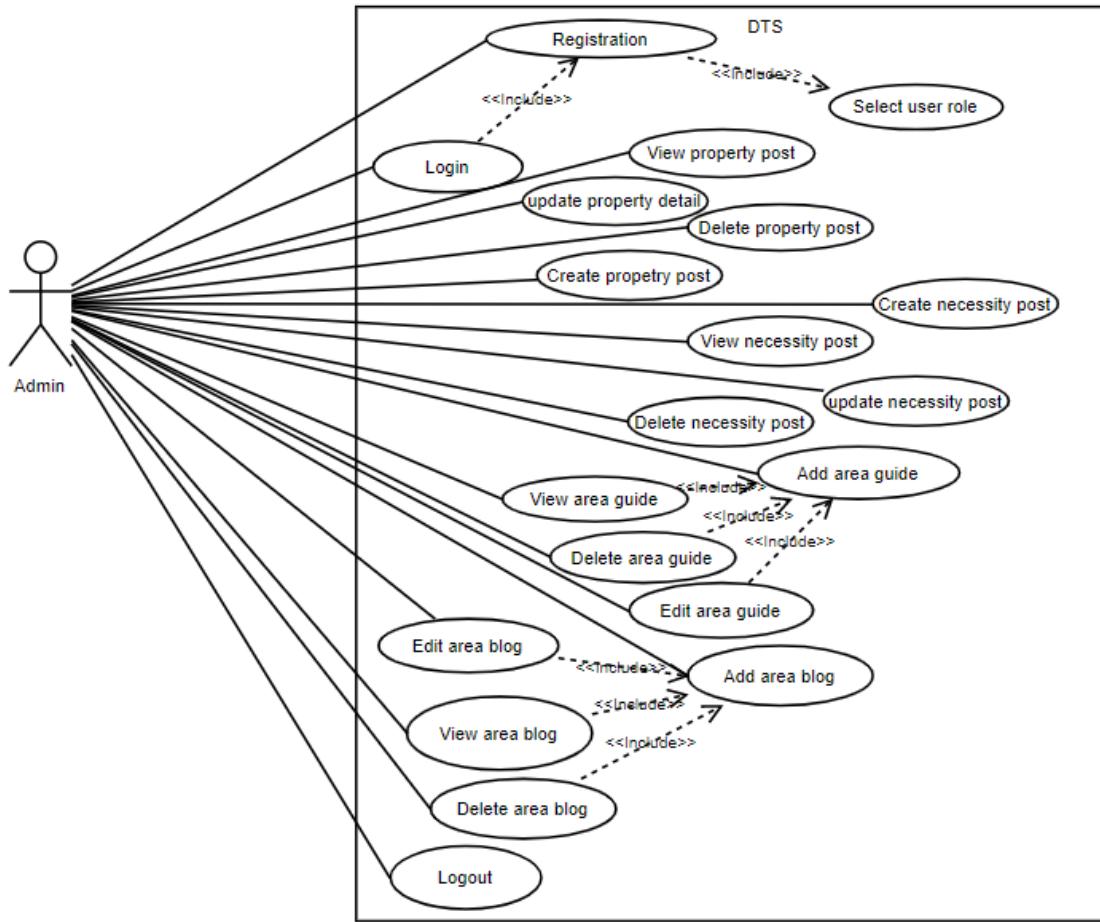


Figure 3.4: Use Case Diagram for Admin

Figure 3.4 represents the Admin Use Case Diagram. As we all know, an Admin is all in all in a system. Therefore, the whole system will be controlled by the Admin. He can make any changes to any user's posts. He can create the area blog and area guide and only he can make any changes to these portion. He can also send the answer which is come to the Guest users.

3.1.4 Use Case diagram for Guest

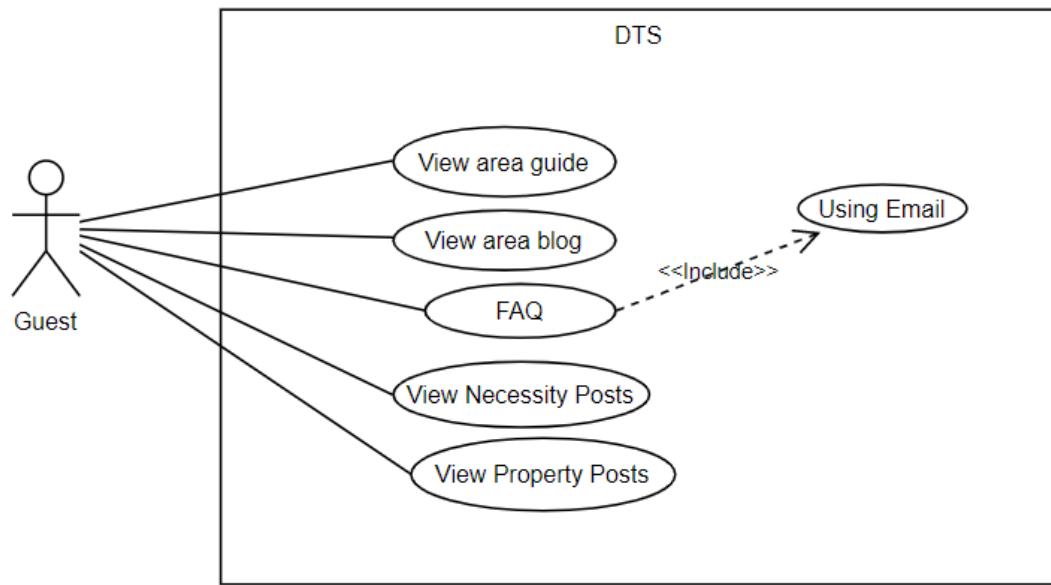


Figure 3.5: Use Case Diagram for Guest

Figure 3.5 represents the Guest Use Case Diagram. My system will give specific access to the Guest users. They can only view area guide and area blog and can send FAQ to the system Admin providing their email.

3.2 Use Case Description

3.2.1 Registration

Use Case	New account registration for Users	
Goal	Users can create an account successfully	
Precondition	N/A	
Success End Condition	New account is created	
Failed End Condition	Already have an account with the given email address	
Primary Actor	Owner, Tenant, Admin	
Secondary Actor	N/A	
Trigger	Click on the “Register” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Registration page
	2	Users fill-up the required fields
	3	Users clicks on the “Register” button
	4	Users has registered an account successfully
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled in
	2	Cannot access the system
Quality Requirements	Step	Requirements
	1	N/A

3.2.2 Login

Use Case	Login for registered users	
Goal	Registered users can login successfully	
Precondition	Registration successfully	
Success End Condition	Access to users' Dashboard	
Failed End Condition	Failed to login	
Primary Actor	Owner, Tenant, Admin	
Secondary Actor	N/A	
Trigger	Click on the "Login" button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Login page
	2	It is mandatory to fill-up the login page with correct information
	3	Users clicks on the "Login" button
	4	Users has logged in successfully
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled with correct information
	2	Cannot access the system
Quality Requirements	Step	Requirements
	1	N/A

3.2.3 Select User-role

Use Case	Select User-role for Users	
Goal	Users can select role successfully	
Precondition	N/A	
Success End Condition	Users identity is created successfully	
Failed End Condition	Already selected the same role with same email.	
Primary Actor	Owner, Tenant, Admin	
Secondary Actor	N/A	
Trigger	Click on the “User-role” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Registration page
	2	Users fill-up the required fields with selecting user-role module
	3	Users select the user-role option
	4	Users has gained his/her required role successfully
Alternative Flows	Step	Branching Action
	1	User-role doesn't select
	2	Cannot access the system
Quality Requirements	Step	Requirements
	1	N/A

3.2.4 Create Property Post

Use Case	Create Property Post	
Goal	Users can create a property post successfully	
Precondition	Should be registered user	
Success End Condition	Create property post properly	
Failed End Condition	Failed to create property post	
Primary Actor	Owner	
Secondary Actor	Admin	
Trigger	Click on the “Submit” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the “Property create” page
	2	Users fill-up the required fields
	3	Users clicks on the “Submit” button
	4	Users has created a property post successfully
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled in
	2	Cannot create property post
Quality Requirements	Step	Requirements
	1	N/A

3.2.5 View Property Post

Use Case	View Property Post	
Goal	Users can View Property Post successfully	
Precondition	<p>Should be registered user</p> <p>Property Post must be created by Owner</p>	
Success End Condition	View Property Post Successfully	
Failed End Condition	Failed to see the Property Post	
Primary Actor	Owner, Tenant	
Secondary Actor	Admin	
Trigger	Click on the “View Property” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Dashboard page
	2	Users clicks on the “View Property” button
	3	Users can see the Property Post successfully
Alternative Flows	Step	Branching Action
	1	The system is failed to show Property Post
Quality Requirements	Step	Requirements
	1	N/A

3.2.6 Update Property Post

Use Case	Update Property post	
Goal	Users can update property information successfully	
Precondition	Should be Registered User Property Post must be created by Owner	
Success End Condition	Update property post information successfully	
Failed End Condition	Failed to update information	
Primary Actor	Owner	
Secondary Actor	Admin	
Trigger	Click on the “Update” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Property Post
	2	Users can change information if he/she wants
	3	Users clicks on the “Update” button
	4	Users can update some information successfully
Alternative Flows	Step	Branching Action
	1	Data mismatched
	2	Failed to update
Quality Requirements	Step	Requirements
	1	N/A

3.2.7 Delete Property Post

Use Case	Delete Property Post	
Goal	Users can delete a post successfully if it seems unnecessary	
Precondition	Should be registered users Property post must be created by owner	
Success End Condition	Successfully deleting post	
Failed End Condition	Failed to delete	
Primary Actor	Owner	
Secondary Actor	Admin	
Trigger	Click on the “Delete” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Property Post page
	2	Users clicks on the “Delete” button
	4	Users has deleted a property post successfully
Alternative Flows	Step	Branching Action
	1	Cannot delete a property post successfully
Quality Requirements	Step	Requirements
	1	N/A

3.2.8 Create Necessity Post

Use Case	Create Necessity Post	
Goal	Users can create a necessity post successfully	
Precondition	Should be registered user	
Success End Condition	Create necessity post properly	
Failed End Condition	Failed to create necessity post	
Primary Actor	Tenant	
Secondary Actor	Admin	
Trigger	Click on the “Submit” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the “Necessity create” page
	2	Users fill-up the required fields
	3	Users clicks on the “Submit” button
	4	Users has created a necessity post successfully
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled in
	2	Cannot create necessity post
Quality Requirements	Step	Requirements
	1	N/A

3.2.9 View Necessity Post

Use Case	View Necessity Post	
Goal	Users can View Necessity Post successfully	
Precondition	Should be registered user	
	Necessity Post must be created by Tenant	
Success End Condition	View Necessity Post Successfully	
Failed End Condition	Failed to see the Necessity Post	
Primary Actor	Owner, Tenant	
Secondary Actor	Admin	
Trigger	Click on the “View Necessity” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Dashboard page
	2	Users clicks on the “View Necessity” button
	3	Users can see the Necessity Post successfully
Alternative Flows	Step	Branching Action
	1	The system is failed to show Necessity Post
Quality Requirements	Step	Requirements
	1	N/A

3.2.10 Update Necessity Post

Use Case	Update Necessity post	
Goal	Users can update necessity information successfully	
Precondition	Should be Registered User Necessity Post must be created by Tenant	
Success End Condition	Update necessity post information successfully	
Failed End Condition	Failed to update information	
Primary Actor	Tenant	
Secondary Actor	Admin	
Trigger	Click on the “Update” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Necessity Post
	2	Users can change information if he/she wants
	3	Users clicks on the “Update” button
	4	Users can update some information successfully
Alternative Flows	Step	Branching Action
	1	Data mismatched
	2	Failed to update
Quality Requirements	Step	Requirements
	1	N/A

3.2.11 Delete Necessity Post

Use Case	Delete Necessity Post	
Goal	Users can delete a post successfully if it seems unnecessary	
Precondition	Should be registered users Necessity post must be created by owner	
Success End Condition	Successfully deleting post	
Failed End Condition	Failed to delete	
Primary Actor	Tenant	
Secondary Actor	Admin	
Trigger	Click on the “Delete” button	
Description / Main Success Scenario	Step	Action
Scenario	1	System will displays the Necessity Post page
	2	Users clicks on the “Delete” button
	4	Users has deleted a necessity post successfully
Alternative Flows	Step	Branching Action
Quality Requirements	1	Cannot delete a necessity post successfully
	Step	Requirements
	1	N/A

3.2.12 Add Area Guide

Use Case	Add Area Guide	
Goal	Users can create an Area Guide successfully	
Precondition	Should be registered user	
Success End Condition	Add Area Guide properly	
Failed End Condition	Failed to create Area Guide	
Primary Actor	Admin	
Secondary Actor	N/A	
Trigger	Click on the “Submit” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the “Add Area” page
	2	Users fill-up the required fields
	3	Users clicks on the “Submit” button
	4	Users has created an Area Guide successfully
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled in
	2	Cannot add Area Guide
Quality Requirements	Step	Requirements
	1	N/A

3.2.13 View Area Guide

Use Case	View Area Guide	
Goal	Users can View Area Guide successfully	
Precondition	Area Guide must be created by Admin	
Success End Condition	View Area Guide Successfully	
Failed End Condition	Failed to see the Area Guide	
Primary Actor	Owner, Tenant, Admin, Guest	
Secondary Actor	N/A	
Trigger	Click on the “View Area Guide” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Home page
	2	Users clicks on the “View Area Guide” button
	3	Users can see the Area Guide successfully
Alternative Flows	Step	Branching Action
	1	The system is failed to show Area Guide
Quality Requirements	Step	Requirements
	1	N/A

3.2.14 Update Area Guide

Use Case	Update Area Guide	
Goal	Users can update area guide information successfully	
Precondition	Should be Registered User Area Guide must be created by Admin	
Success End Condition	Update Area guide information successfully	
Failed End Condition	Failed to update information	
Primary Actor	Admin	
Secondary Actor	N/A	
Trigger	Click on the “Update” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Area Guide
	2	Users can change information if he/she wants
	3	Users clicks on the “Update” button
	4	Users can update some information successfully
Alternative Flows	Step	Branching Action
	1	Data mismatched
	2	Failed to update
Quality Requirements	Step	Requirements
	1	N/A

3.2.15 Delete Area Guide

Use Case	Delete Area Guide	
Goal	Users can delete Area Guide successfully if it seems unnecessary	
Precondition	<p>Should be registered users</p> <p>Area Guide must be created by Admin</p>	
Success End Condition	Successfully deleting post	
Failed End Condition	Failed to delete	
Primary Actor	Admin	
Secondary Actor	N/A	
Trigger	Click on the “Delete” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Area Guide page
	2	Users clicks on the “Delete” button
	4	Users has deleted area guide successfully
Alternative Flows	Step	Branching Action
	1	Cannot delete area guide successfully
Quality Requirements	Step	Requirements
	1	N/A

3.2.16 Add Area Blog

Use Case	Add Area Blog	
Goal	Users can create an Area Blog successfully	
Precondition	Should be registered user	
Success End Condition	Add Area Blog properly	
Failed End Condition	Failed to create Area Blog	
Primary Actor	Admin	
Secondary Actor	N/A	
Trigger	Click on the “Submit” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the “Add Blog” page
	2	Users fill-up the required fields
	3	Users clicks on the “Submit” button
	4	Users has created an Area Blog successfully
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled in
	2	Cannot add Area Blog
Quality Requirements	Step	Requirements
	1	N/A

3.2.17 View Area Blog

Use Case	View Area Blog	
Goal	Users can View Area Blog successfully	
Precondition	Area Blog must be created by Admin	
Success End Condition	View Area Blog Successfully	
Failed End Condition	Failed to see the Area Blog	
Primary Actor	Owner, Tenant, Admin, Guest	
Secondary Actor	N/A	
Trigger	Click on the “View Area Blog” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Home page
	2	Users clicks on the “View Area Blog” button
	3	Users can see the Area Blog successfully
Alternative Flows	Step	Branching Action
	1	The system is failed to show Area Blog
Quality Requirements	Step	Requirements
	1	N/A

3.2.18 Update Area Blog

Use Case	Update Area Blog	
Goal	Users can update area blog information successfully	
Precondition	Should be Registered User Area Blog must be created by Admin	
Success End Condition	Update Area Blog information successfully	
Failed End Condition	Failed to update information	
Primary Actor	Admin	
Secondary Actor	N/A	
Trigger	Click on the “Update” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Area Blog
	2	Users can change information if he/she wants
	3	Users clicks on the “Update” button
	4	Users can update some information successfully
Alternative Flows	Step	Branching Action
	1	Data mismatched
	2	Failed to update
Quality Requirements	Step	Requirements
	1	N/A

3.2.19 Delete Area Blog

Use Case	Delete Area Blog	
Goal	Users can delete Area Blog successfully if it seems unnecessary	
Precondition	Should be registered users Area Blog must be created by Admin	
Success End Condition	Successfully deleting post	
Failed End Condition	Failed to delete	
Primary Actor	Admin	
Secondary Actor	N/A	
Trigger	Click on the “Delete” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the Area Blog page
	2	Users clicks on the “Delete” button
	4	Users has deleted area blog successfully
Alternative Flows	Step	Branching Action
	1	Cannot delete area blog successfully
Quality Requirements	Step	Requirements
	1	N/A

3.2.20 FAQ

Use Case	FAQ for the users	
Goal	Users can Ask any question to the Admin	
Precondition	N/A	
Success End Condition	Can Ask a question to the admin through email	
Failed End Condition	Failed to ask questions	
Primary Actor	Owner, Tenant, Guest	
Secondary Actor	N/A	
Trigger	Click on the “FAQ” button	
Description / Main Success Scenario	Step	Action
	1	System will displays the FAQ page
	2	Users can fill-up the required fields and ask any question
	3	Users clicks on the “submit” button
	4	Users question can be seen by Admin
Alternative Flows	Step	Branching Action
	1	Mandatory / required input fields are not filled in
	2	Cannot ask any question
Quality Requirements	Step	Requirements
	1	N/A

3.2.21 Logout

Use Case	Logout for registered users	
Goal	Users can log out of their account	
Precondition	Users must be logged in to the system	
Success End Condition	Users log out from their Dashboard	
Failed End Condition	Cannot access to the system	
Primary Actor	Owner, Tenant, Admin	
Secondary Actor	N/A	
Trigger	Click on the “Log out” button	
Description / Main Success Scenario	Step	Action
	1	System will display the member dashboard
	2	Users click on the “Log Out” button
	4	Users get logged out to the system
Alternative Flows	Step	Branching Action
	1	Cannot access the system
Quality Requirements	Step	Requirements
	1	N/A

3.1 Activity Diagram

3.3.1 Registration

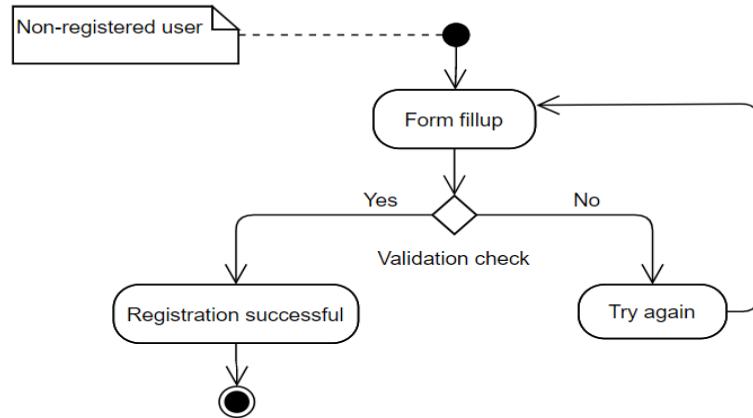


Figure 3.6: Activity Diagram for Registration

Figure 3.6 defines the Activity Diagram for Registration. Only non-registered users can do this activity. The system will provide a form for registration issue. Then, the system will check the validation of data and make the process complete.

3.3.2 Login

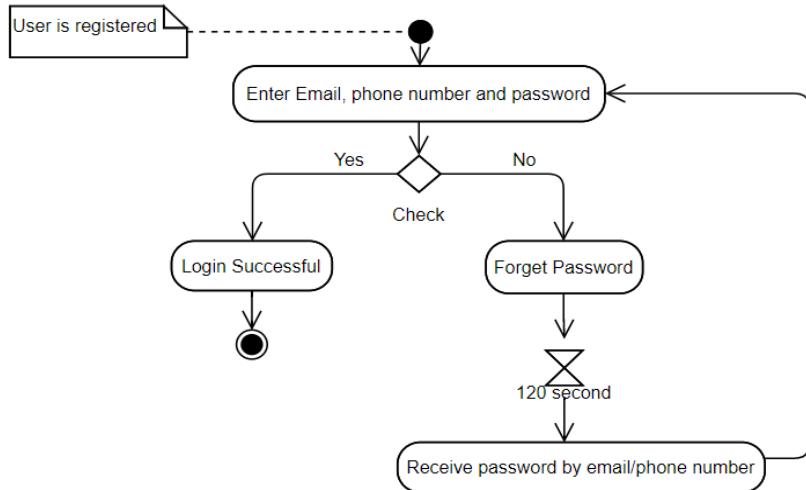


Figure 3.7: Activity Diagram for Login

Figure 3.7 defines the Activity Diagram for Login. Only registered users can do this activity. The system will want the email/ phone number and password to the users and check for authentication to complete the process.

3.3.3 Create Property Post

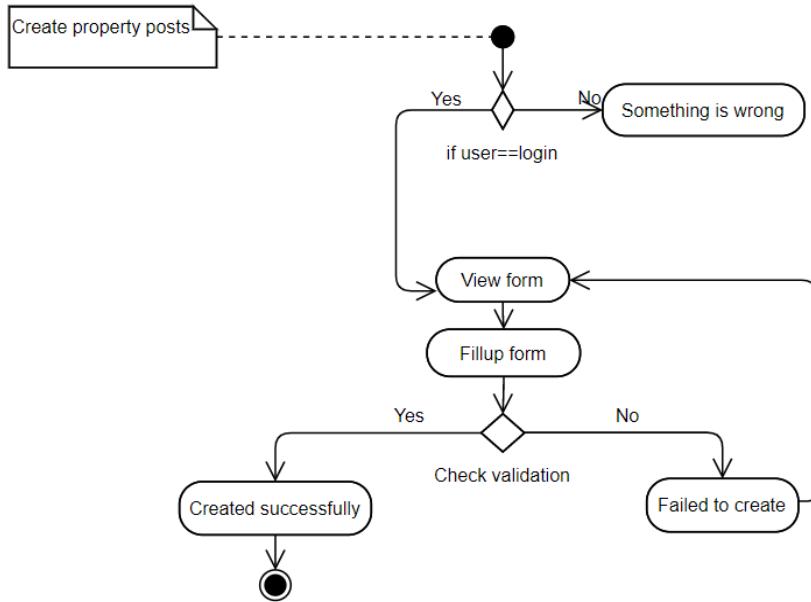


Figure 3.8: Activity Diagram for Create Property

Figure 3.8 represents the Activity Diagram for Create Property Post. Only the registered owner and admin users can have this access. They can create a property post by providing information about their property. Then the system will check the data validation and the process will be completed if the checking result is ‘yes’. However, if the data validation result is ‘no’ then the process will give some message for data validation and the process will be started from the beginning.

3.3.4 View Property Post

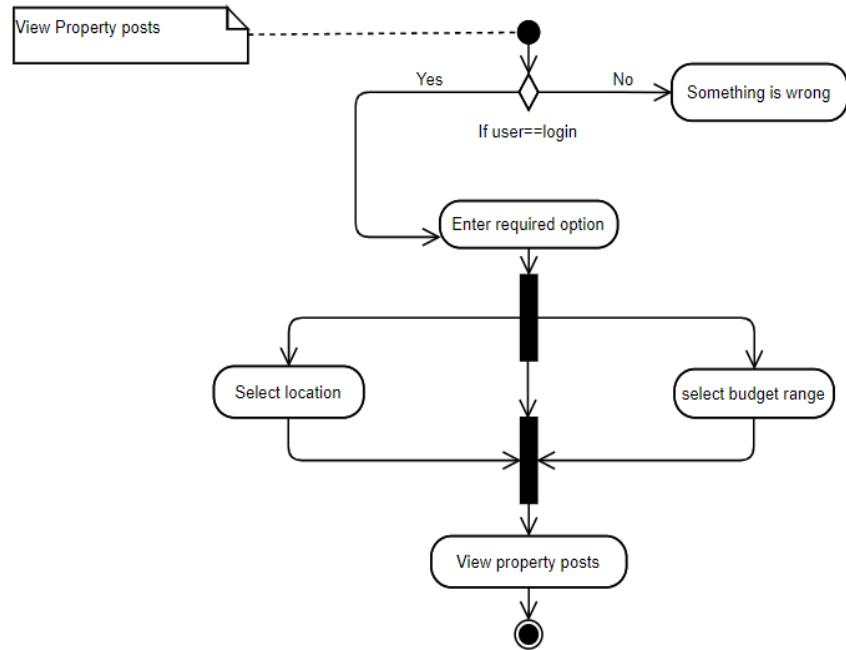


Figure 3.9: Activity Diagram for View Property Post

Figure 3.9 represents the Activity Diagram for View Property Post. All the users can access to the field and view the property posts which is created by Owner.

3.3.5 Update Property Post

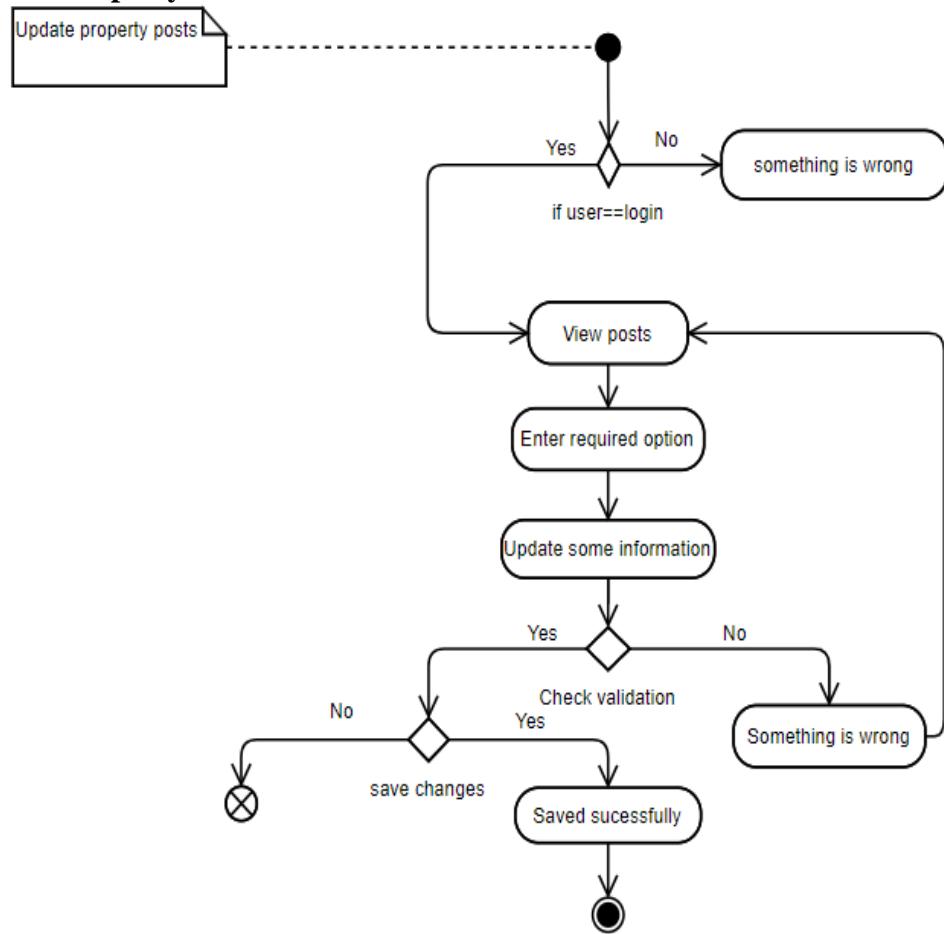


Figure 3.10: Activity Diagram for Update Property Post

Figure 3.10 represents the Activity Diagram for Update Property Post. The Owner and Admin can only do this activity if there is any created post. They can view the property post and specifically update any field by validating data.

3.3.6 Delete Property Post

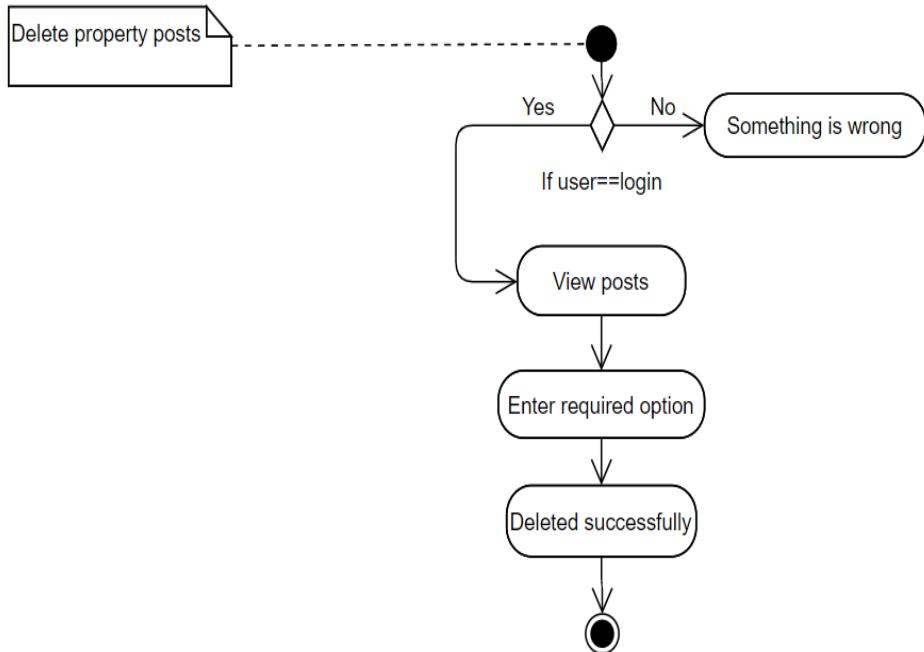


Figure 3.11: Activity Diagram for Delete Property Post

Figure 3.11 represents the Activity Diagram for Delete Property Post. The Owner and Admin can only do this activity if there is any created post. They can view the property post and specifically delete the post.

3.3.7 Create Necessity Post

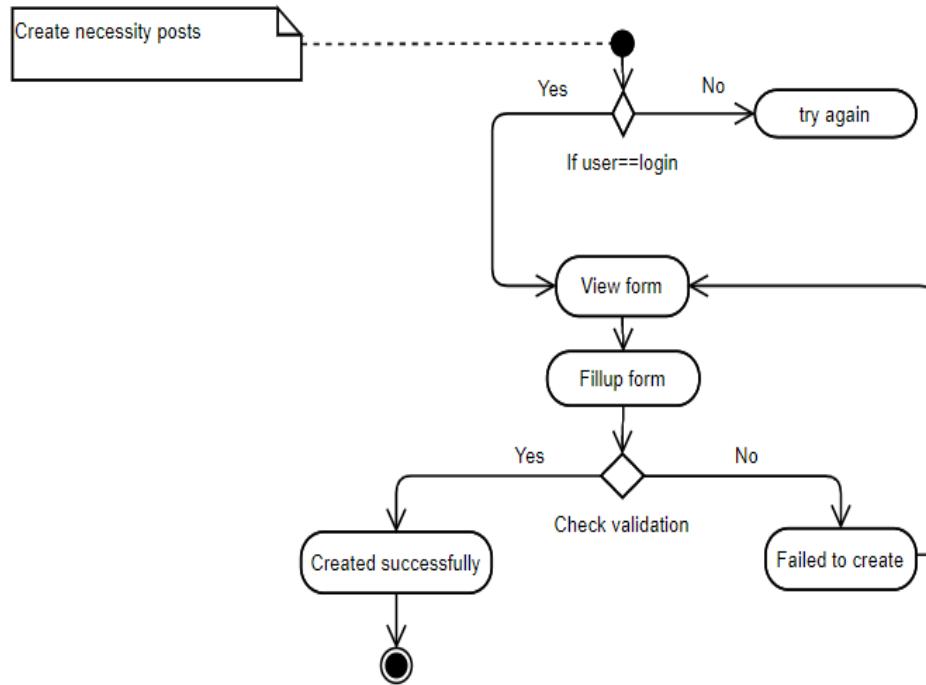


Figure 3 12: Activity Diagram for Create Necessity Post

Figure 3.12 represents the Activity Diagram for Create Necessity Post. Only the registered tenant and admin users can have this access. They can create a necessity post by providing information about their needs. Then the system will check the data validation and the process will be completed if the checking result is ‘yes’. However, if the data validation result is ‘no’ then the process will give some message for data validation and the process will be started from the beginning.

3.3.8 View Necessity Post

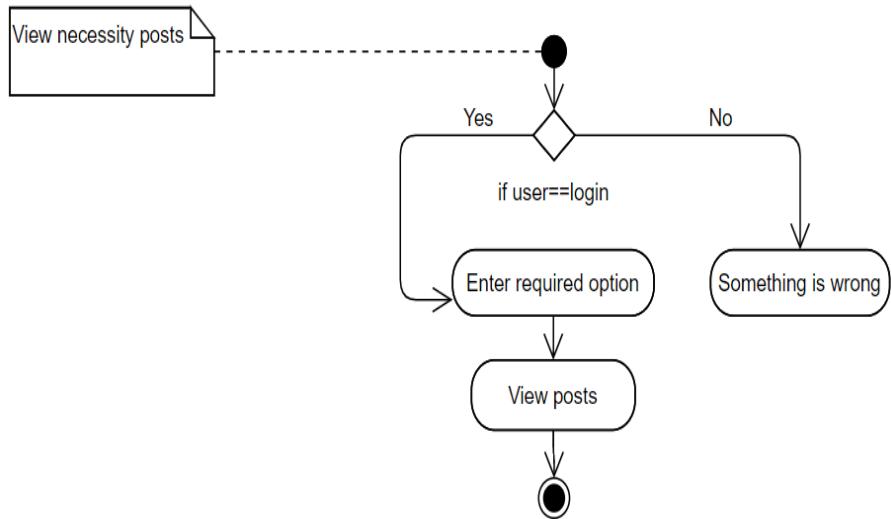


Figure 3 13: Activity Diagram for View Necessity Post

Figure 3.13 represents the Activity Diagram for View Necessity Post. All the users can access to the field and view the necessity posts which is created by Tenant.

3.3.9 Update Necessity Post

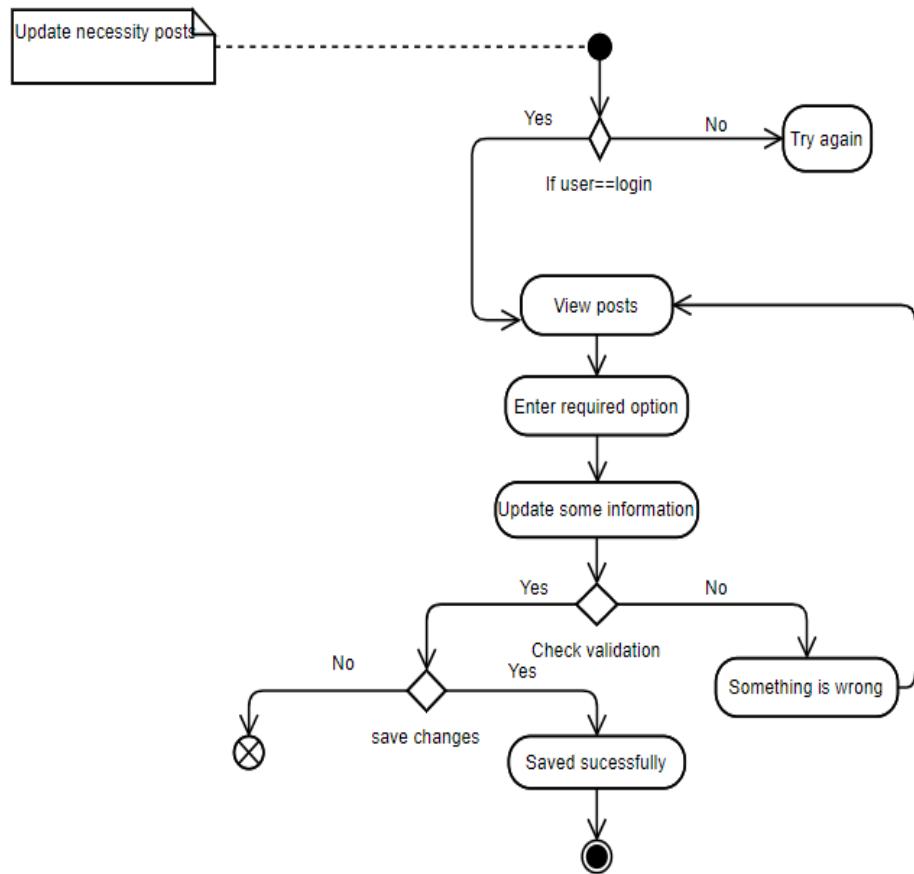


Figure 3 14: Activity Diagram for Update Necessity Post

Figure 3.14 represents the Activity Diagram for Update Property Post. The Tenant and Admin can only do this activity if there is any created post. They can view the property post and specifically update any field by validating data.

3.3.10 Delete Necessity Post

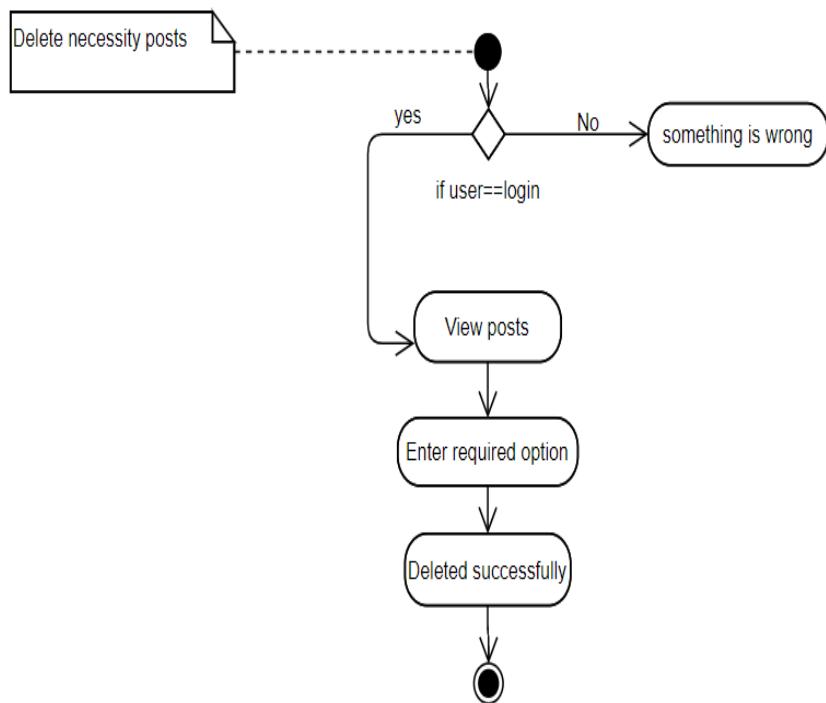


Figure 3.15: Activity Diagram for Delete Necessity Post

Figure 3.15 represents the Activity Diagram for Delete Necessity Post. The Tenant and Admin can only do this activity if there is any created post. They can view the property post and specifically delete the post.

3.3.11 Add Area Guide

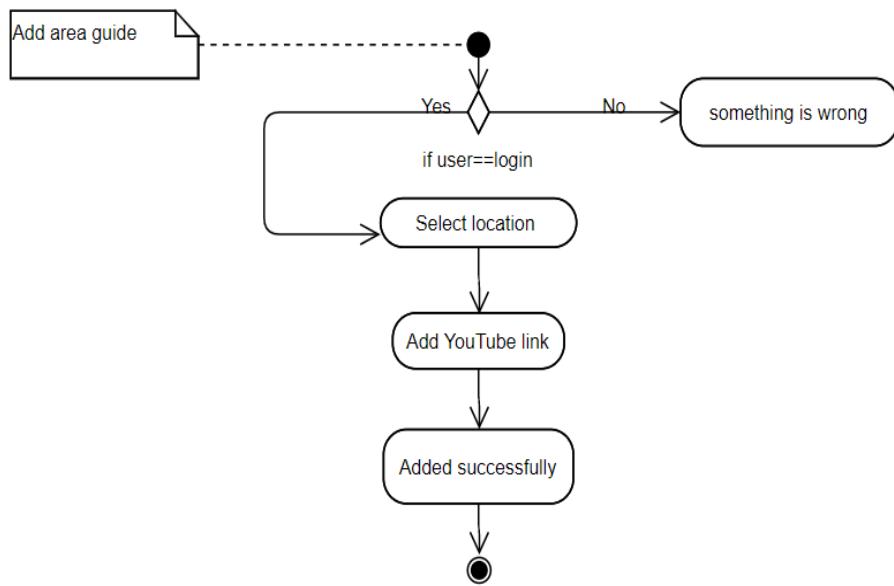


Figure 3.16: Activity Diagram for Add Area Guide

Figure 3.16 represents the Activity Diagram for Add Area Guide. Only the Admin can have this access. He/she can add an area guide by providing information. Then the system will check the data validation and the process will be completed if the checking result is ‘yes’. However, if the data validation result is ‘no’ then the process will give some message for data validation and the process will be started from the beginning. It should be mentioned that, area guide must carry a YouTube link.

3.3.12 View Area Guide

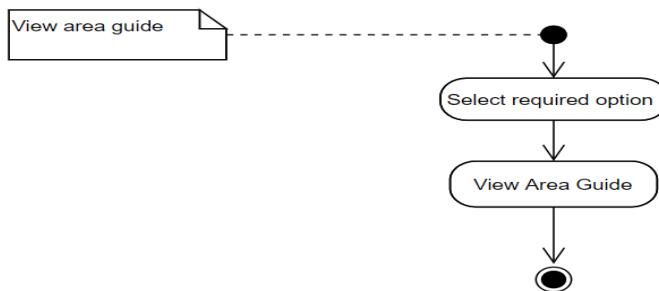


Figure 3.17: Activity Diagram for View Area Guide

Figure 3.17 represents the Activity Diagram for View Area Guide. All the users can access to the field and view the Area Guide.

3.3.13 Edit Area Guide

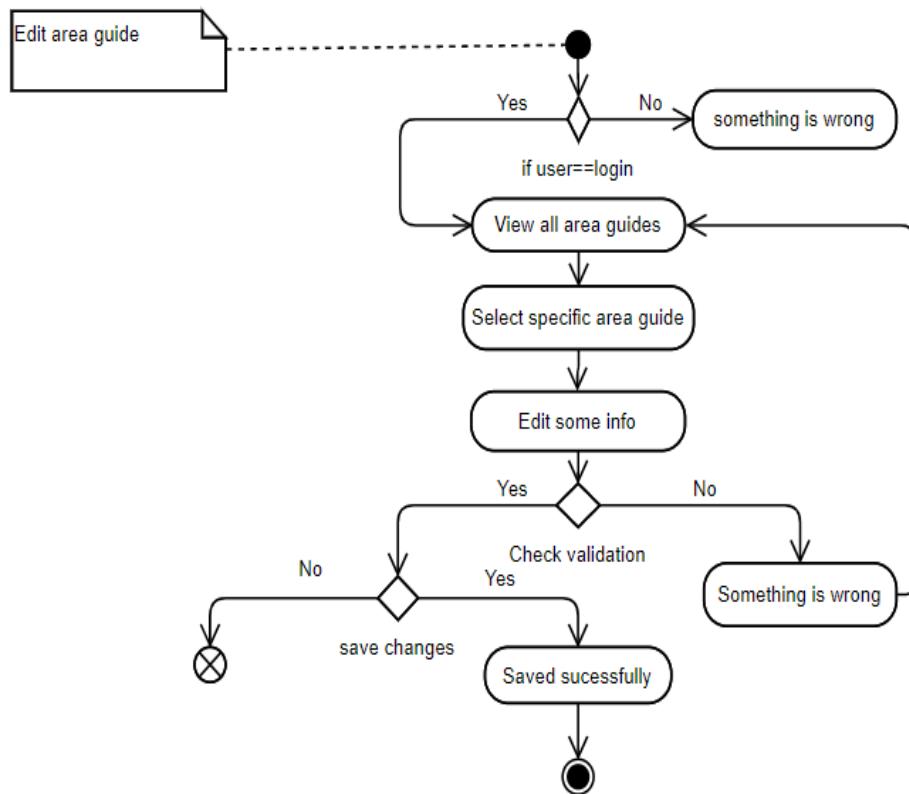


Figure 3.18: Activity Diagram for Edit Area Guide

Figure 3.18 represents the Activity Diagram for Edit Area Guide. The Admin can only do this activity if there is any created post. Admin can view the Area Guide and specifically update any field by validating data.

3.3.14 Delete Area Guide

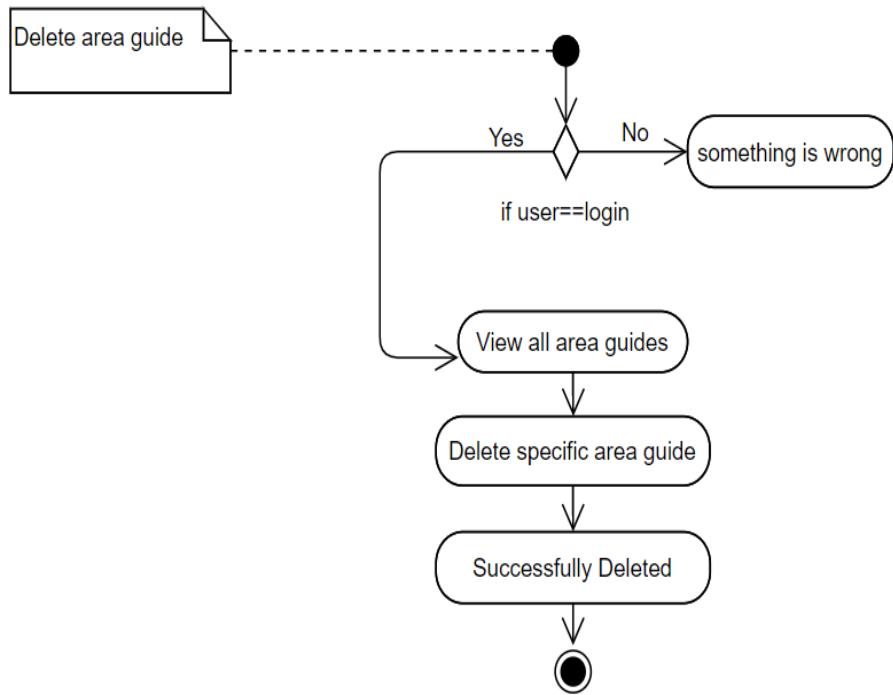


Figure 3.19: Activity Diagram for Delete Area Guide

Figure 3.19 represents the Activity Diagram for Delete Area Guide. Admin can only do this activity if there is any created post. Admin can view the area guide and specifically delete the post.

3.3.15 Add Area Blog

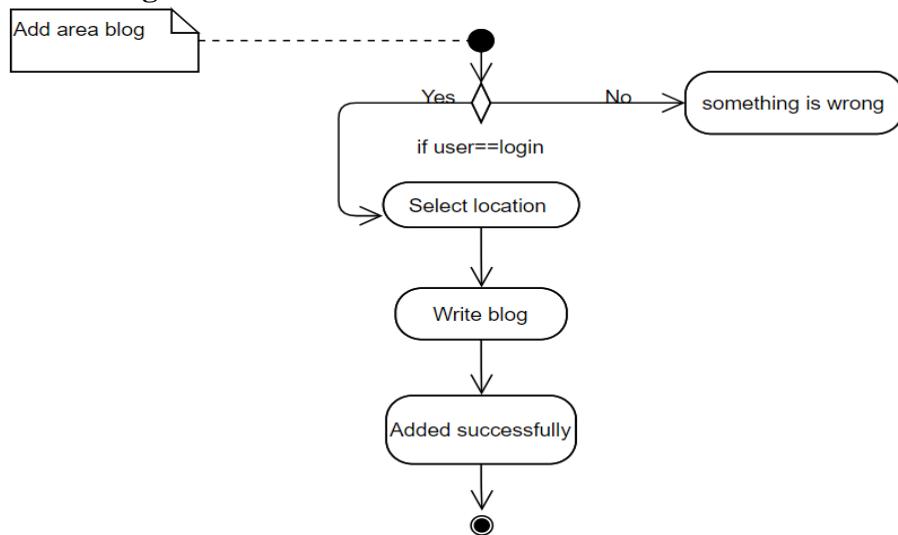


Figure 3.20: Activity Diagram for Add Area Blog

Figure 3.20 represents the Activity Diagram for Add Area Blog. Only the Admin can have this access. He/she can add an area blog by providing information. Then the system will check the data validation and the process will be completed if the checking result is ‘yes’. However, if the data validation result is ‘no’ then the process will give some message for data validation and the process will be started from the beginning.

3.3.16 View Area Blog

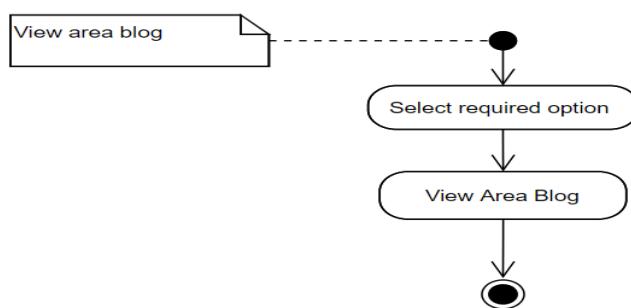


Figure 3.21: Activity Diagram for View Area Blog

Figure 3.21 represents the Activity Diagram for View Area Blog. All the users can access to the field and view the Area Blog.

3.3.17 Edit Area Blog

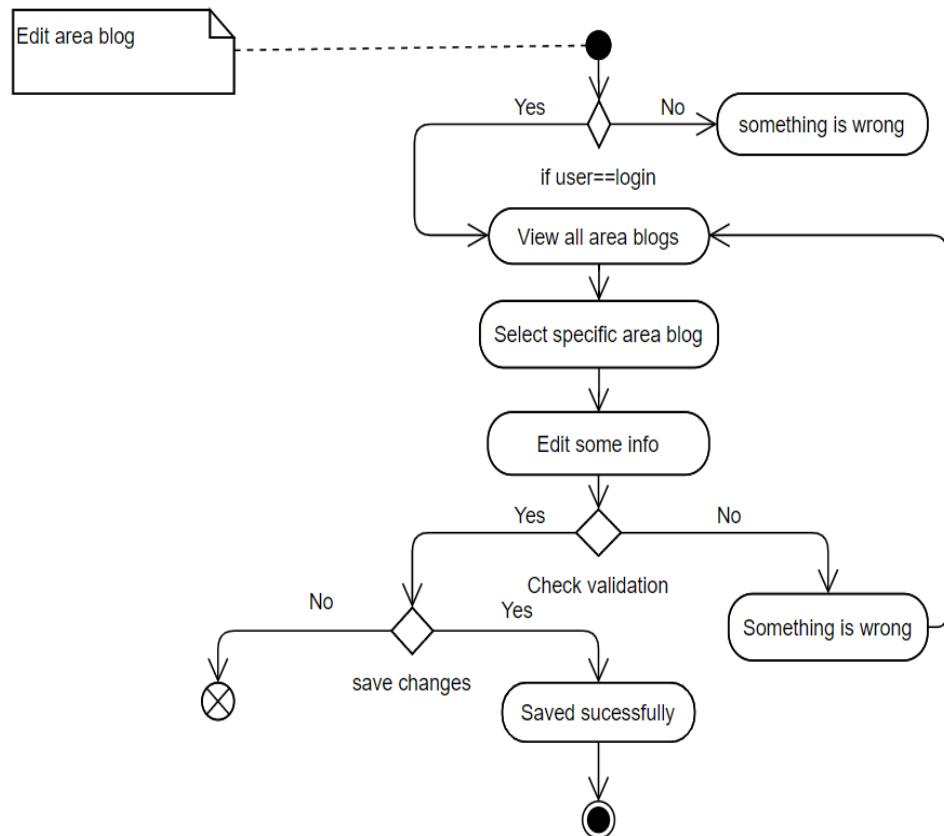


Figure 3.22: Activity Diagram for Edit Area Blog

Figure 3.22 represents the Activity Diagram for Edit Area Blog. The Admin can only do this activity if there is any created post. Admin can view the area blog and specifically update any field by validating data.

3.3.18 Delete Area Blog

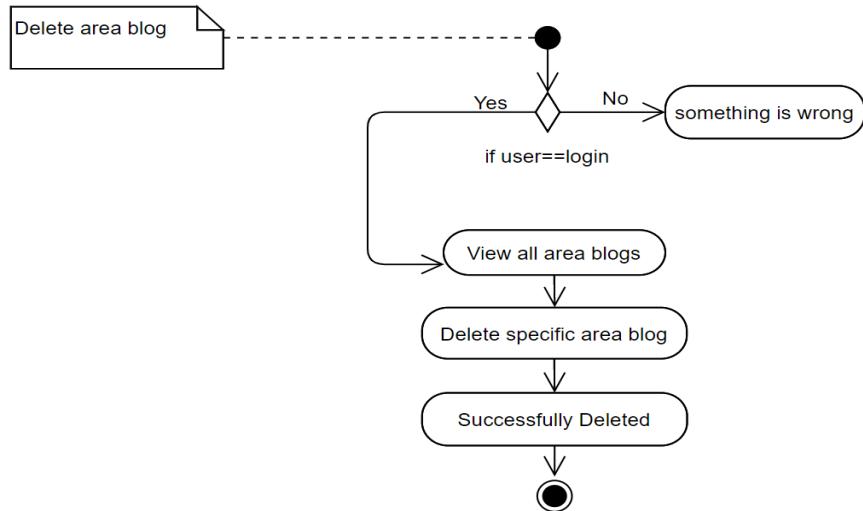


Figure 3.23: Activity Diagram for Delete Area Blog

Figure 3.23 represents the Activity Diagram for Delete Area Guide. Admin can only do this activity if there is any created post. Admin can view the area guide and specifically delete the post.

3.3.19 Logout

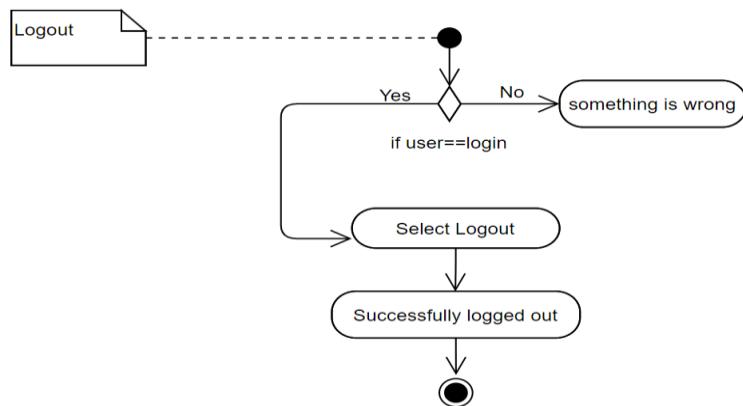


Figure 3.24: Activity Diagram for Logout

Figure 3.24 represents the Logout Activity. The registered users have the access and the users must be logged in to the system.

3.3.20 FAQ

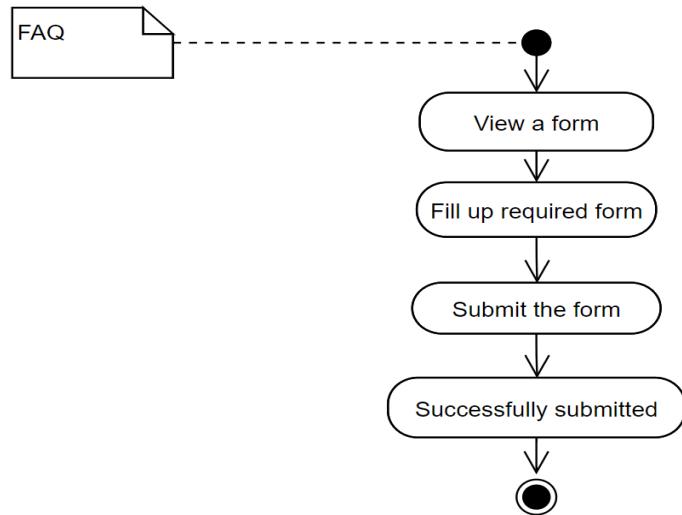


Figure 3.25: Activity Diagram for FAQ

Figure 3.25 represents the FAQ for Activity. All the users can ask any question by submitting a form with providing email.

3.2 Sequence Diagram

I have separated the Sequence Diagram according to the working issue.

3.4.1 Property Issue for Owner, Tenant and Guest

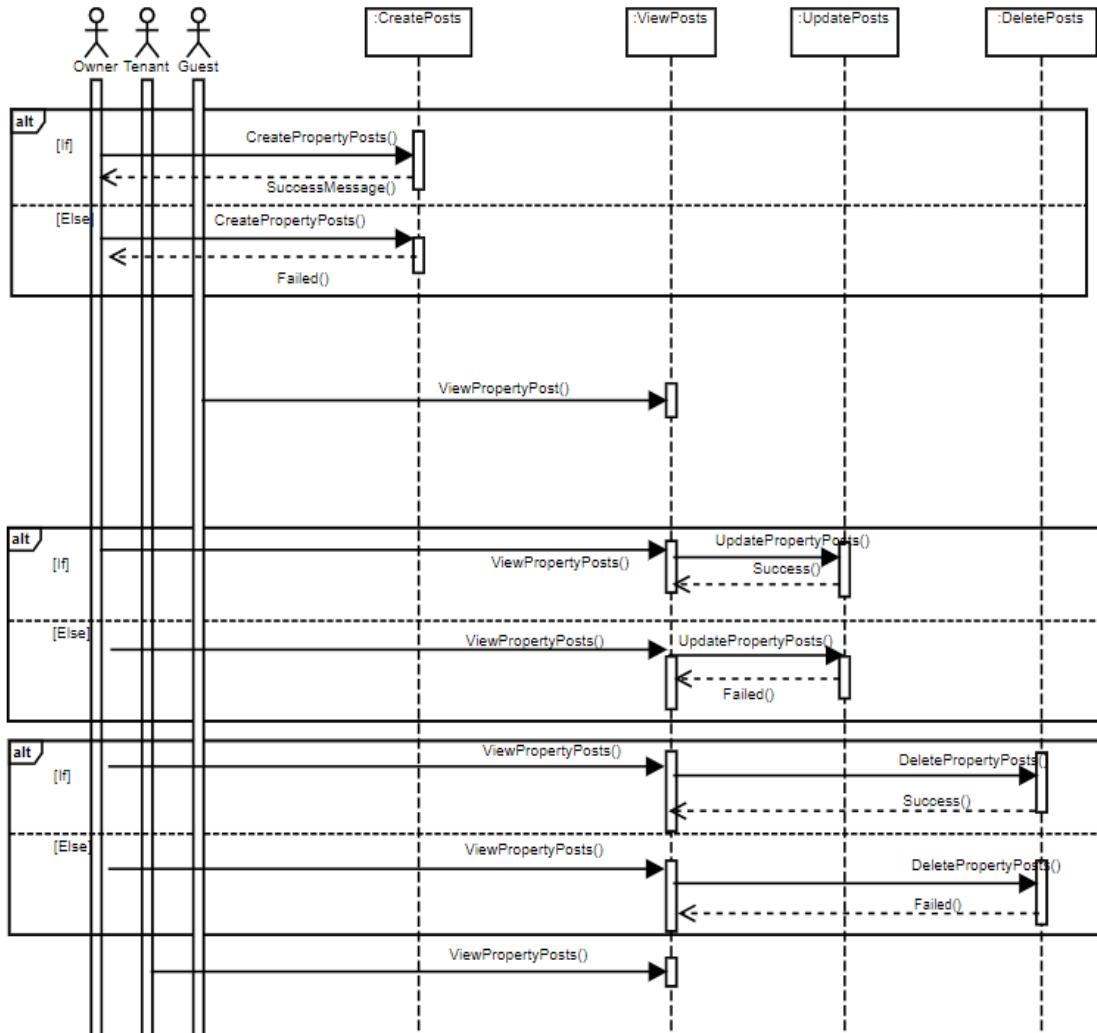


Figure 3.26: Property Issue for Owner, Tenant and Guest

Figure 3.26 represents the Property Issue for Owner, Tenant and Guest. I have tried to show the interaction between the objects and the users. It describes how and in what order the objects in a system function.

3.4.2 Property Issue for Admin

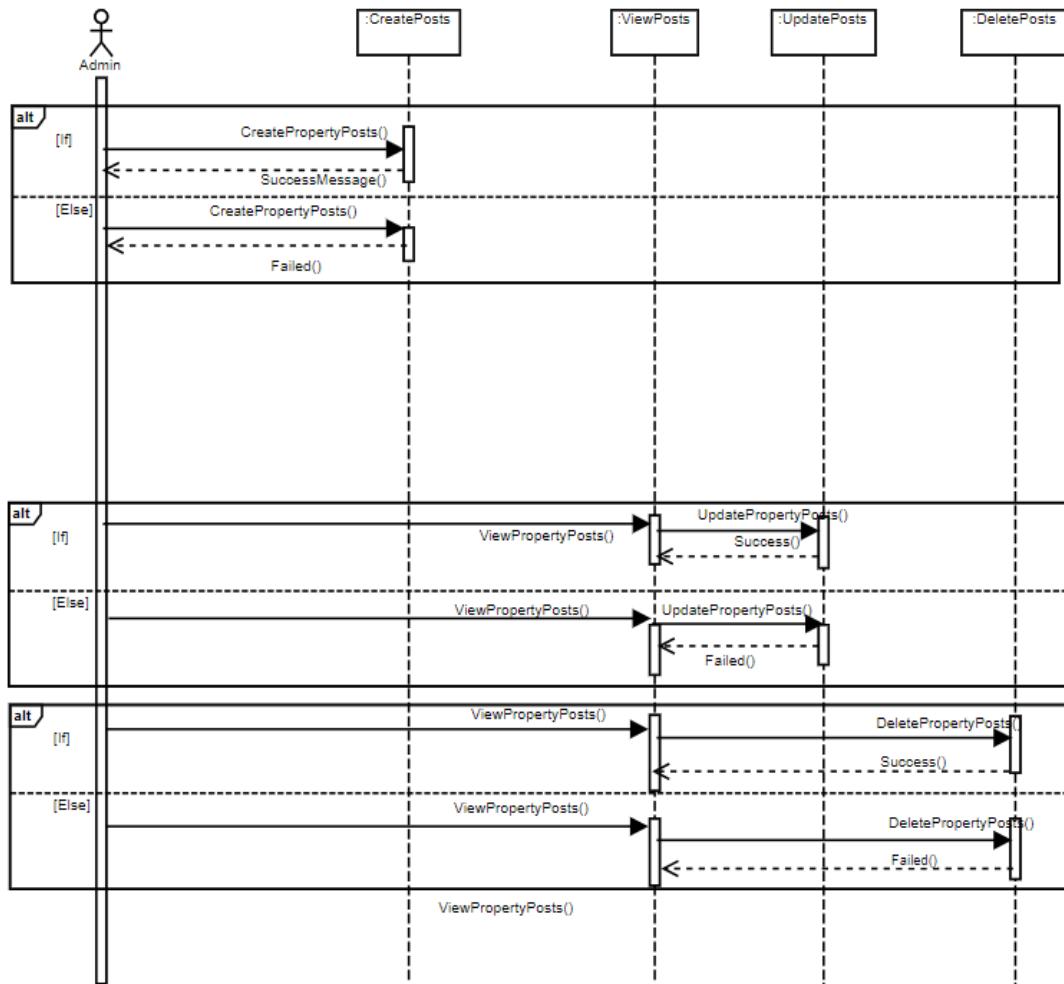


Figure 3.27: Property Issue for Admin

Figure 3.27 represents the Property Issue for Admin. I have tried to show the interaction between the objects and the users. It describes how and in what order the objects in a system function.

3.4.3 Necessity Issue for Tenant, Owner and Guest

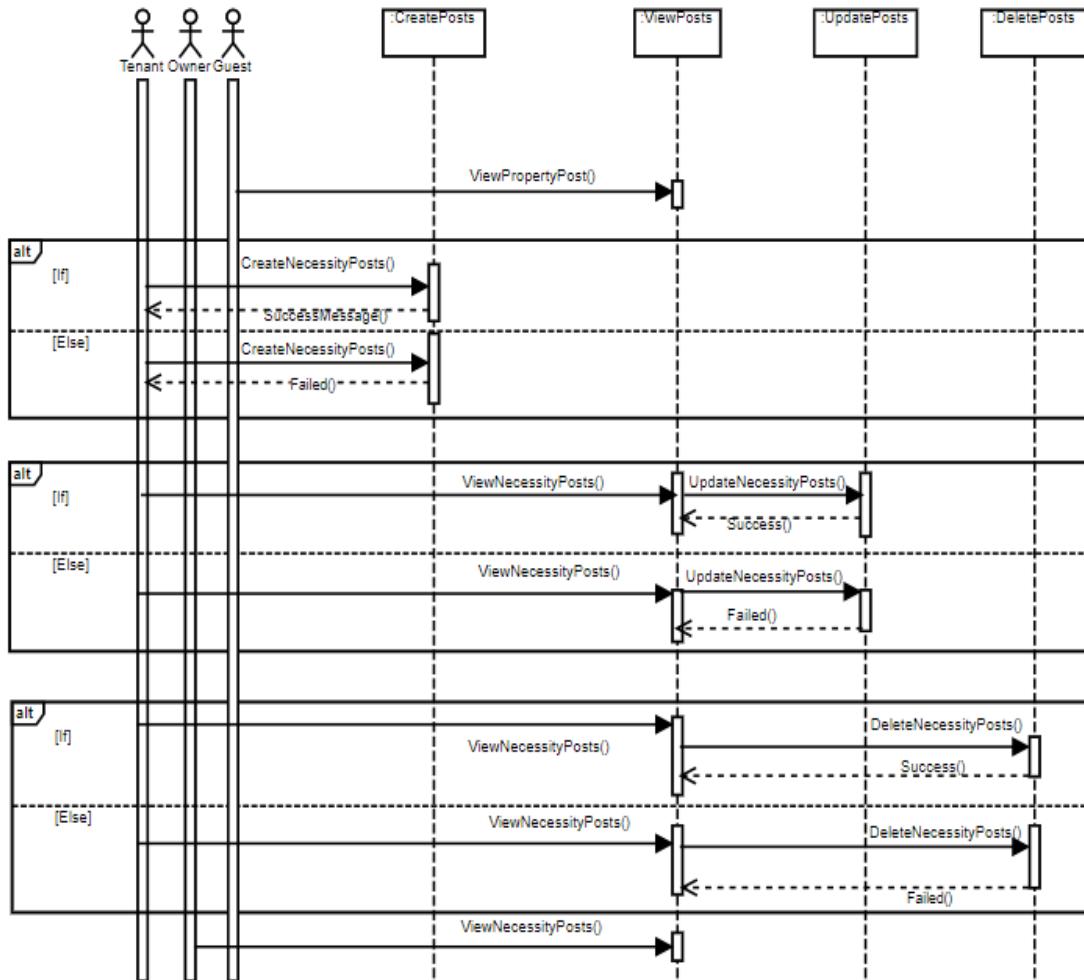


Figure 3 28: Necessity Issue for Tenant, Owner and Guest

Figure 3.28 represents the Necessity Issue for Owner, Tenant and Guest. I have tried to show the interaction between the objects and the users. It describes how and in what order the objects in a system function.

3.4.4 Necessity Issue for Admin

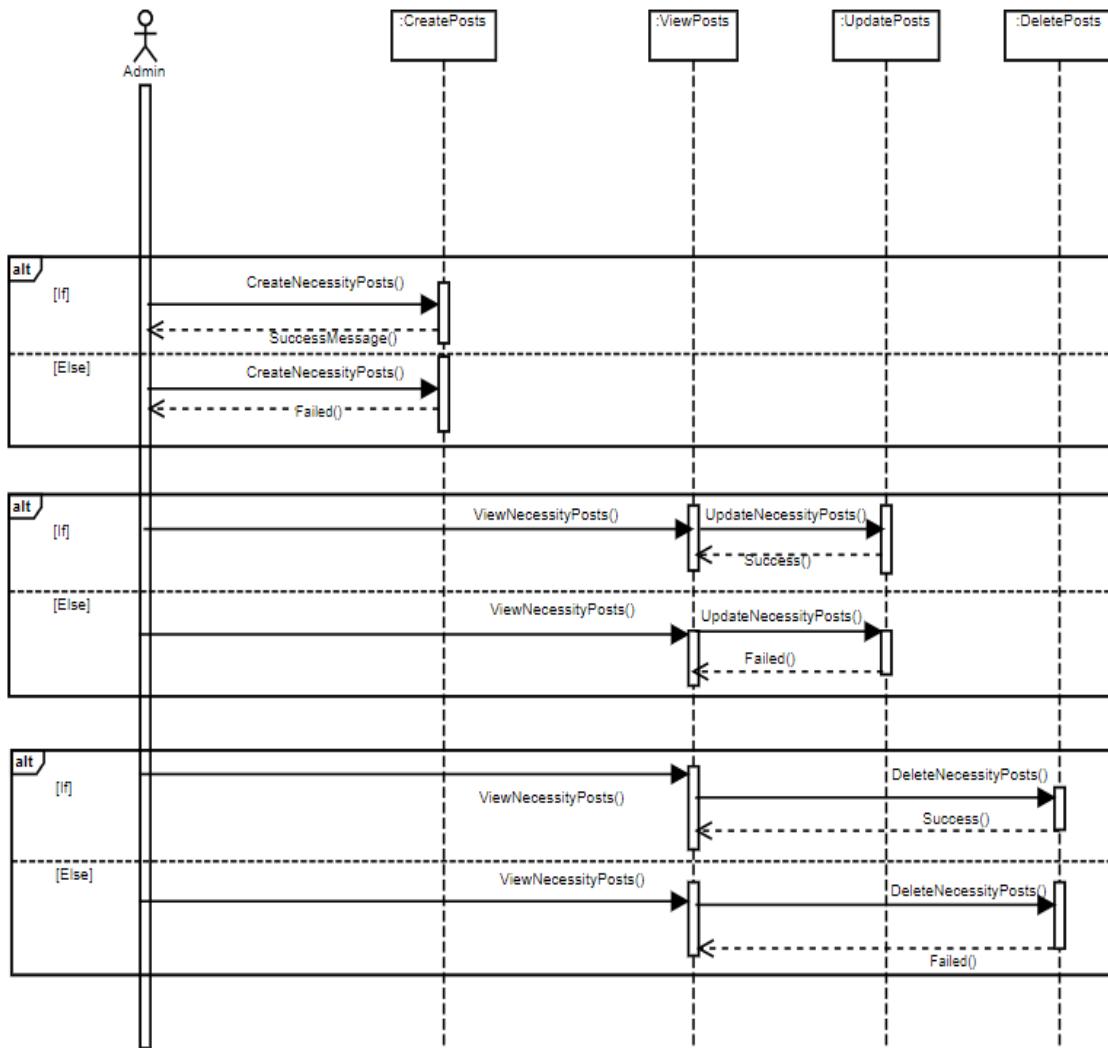


Figure 3 29: Necessity Issue for Admin

Figure 3.29 represents the Necessity Issue for Admin. I have tried to show the interaction between the objects and the users. It describes how and in what order the objects in a system function.

3.4.5 Area Guide Issue

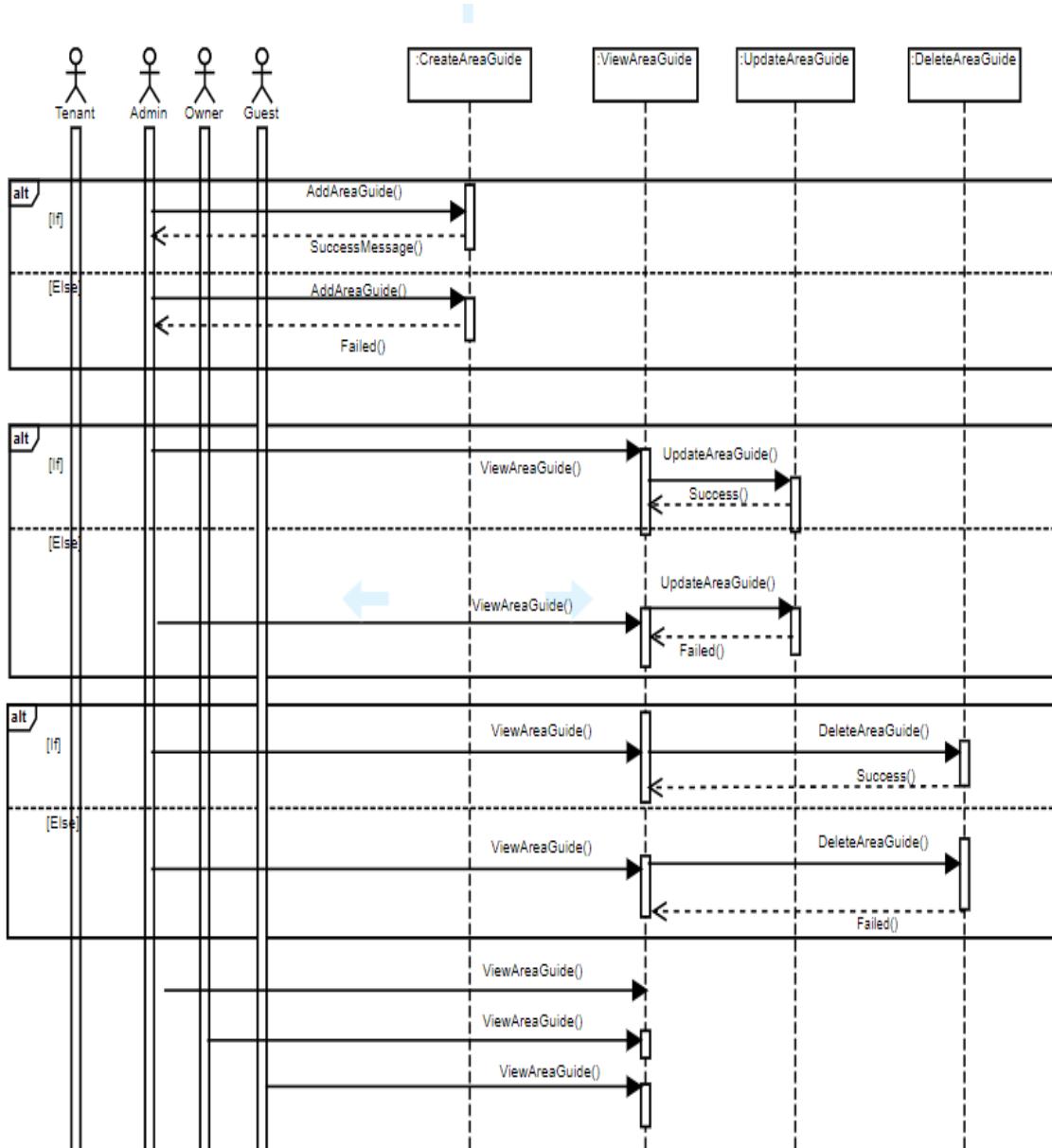


Figure 3 30: Area Guide Issue

Figure 3.30 represents the Area Guide Issue for Owner, Tenant, Guest and Admin. I have tried to show the interaction between the objects and the users. It describes how and in what order the objects in a system function.

3.4.6 Area Blog Issue

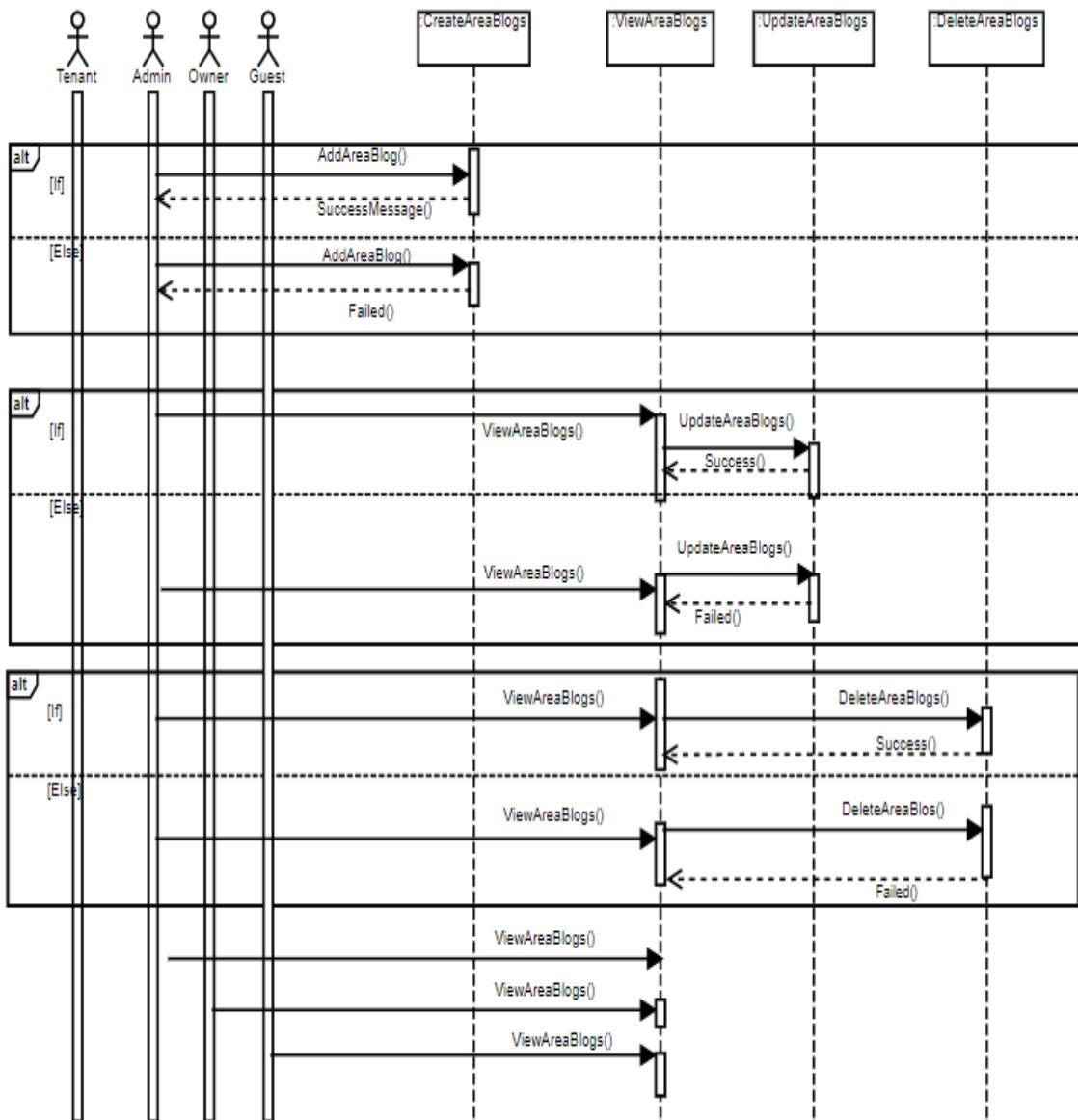


Figure 3.31: Area Blog Issue

Figure 3.31 represents the Area Blog Issue for Owner, Tenant, Guest and Admin. I have tried to show the interaction between the objects and the users. It describes how and in what order the objects in a system function.

CHAPTER 4

SYSTEM DESIGN SPECIFICATION

4.1 Development Tools and Technology

4.1.1 User Interface Technology

User Interface is the process to build interfaces in software or computerized devices, web developments, focusing on looks or style. In my project which technologies I have used to design interface are given below-

- i HTML
- ii CSS
- iii Bootstrap
- iv JavaScript
- v PHP

4.1.2 Implementation Tools and Platform

- i Xampp
- ii Composer
- iii Git Bash
- iv Laravel

4.1 Entity Relationship Diagram

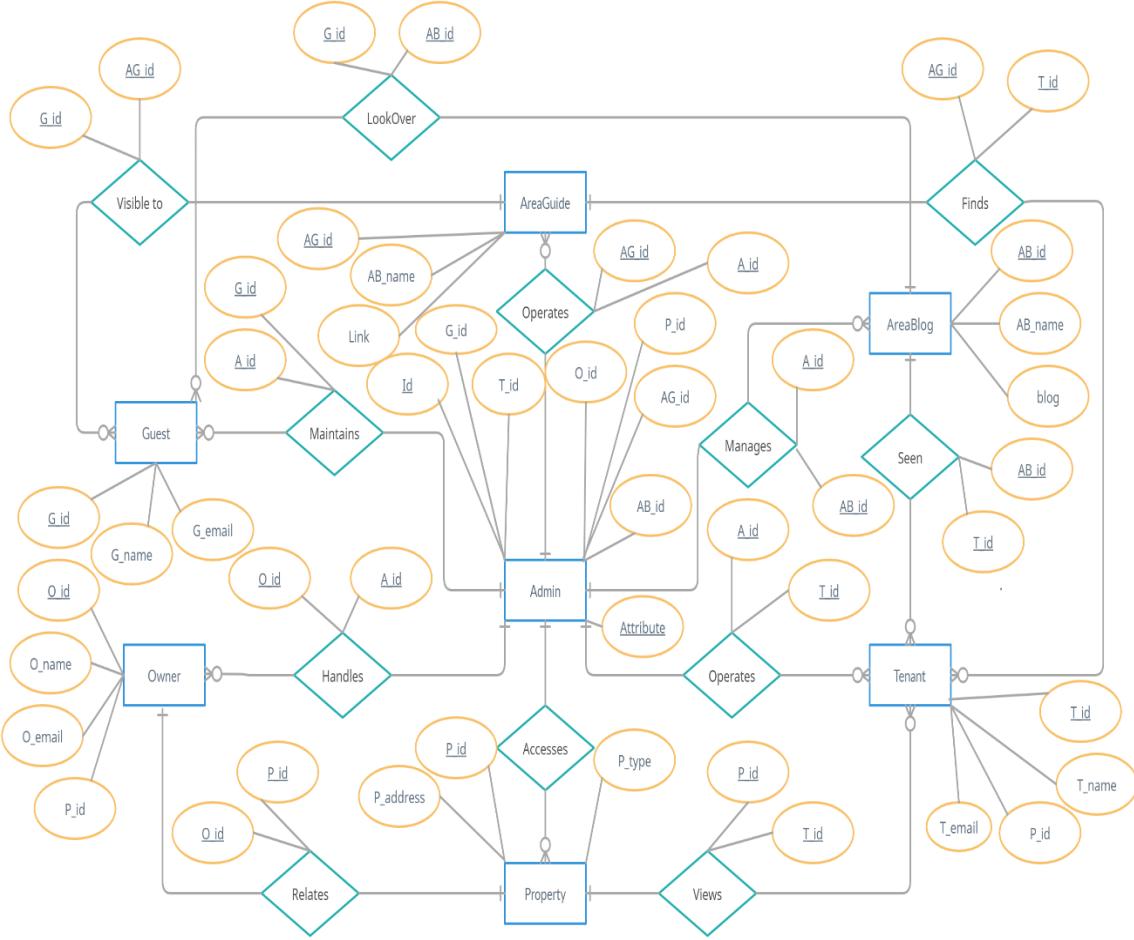


Figure 4.1: Entity Relationship Diagram for Digital To-let System (DTS)

Figure 4.1 represents the ERD for DTS. In this Diagram, there are seven entity related with each other based on Cardinality.

4.2 Class Diagram

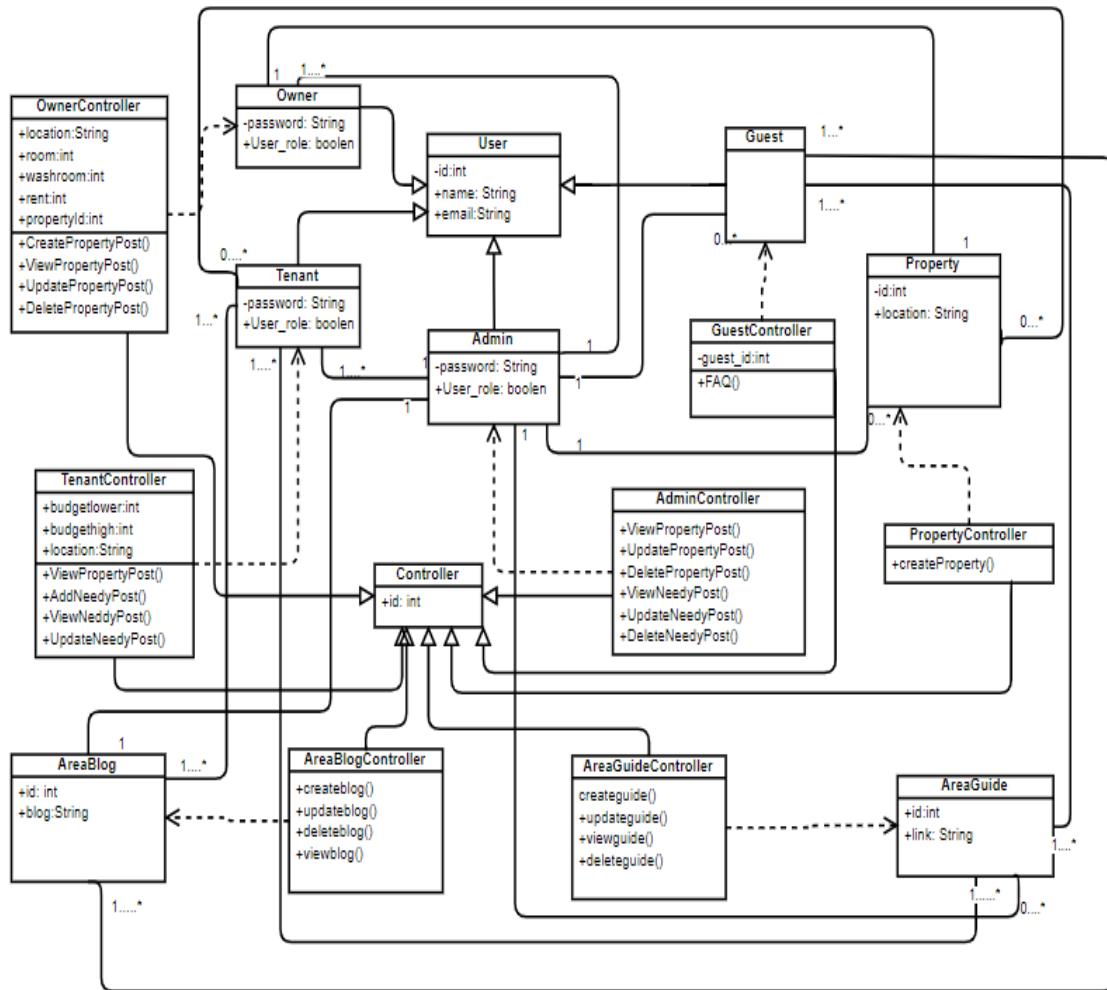


Figure 4.2: Class diagram for Digital To-let System

Figure 4.2 represents Class Diagram for DTS. In this diagram, I have used classes with attributes and operations. I have also used the association, inheritance and dependency to make it easier for the users.

CHAPTER 5

SYSTEM TEST

5.1 Testing Features

Priority Level

1 = Low Priority

2 = Medium Priority

3 = High Priority

5.1.1 Owner's features

Features	Priority	Description
Registration	3	System must validate the user
Login	3	Authenticate user should be logged in
Create Property Post	3	Owner can create property post with valid data
View Property Post	3	Owner can view his own property post
Update Property post	3	Owner can successfully update his property post
Delete Property Post	3	Owner can delete his own property post
View Necessity post	2	Owner can able to see the tenant necessity post

5.1.2 Guest's features

Features	Priority	Description
View Area Guide	2	Guests users have the access to see the area guide
View Area Blog	2	Guests users have the access to see the area blog
FAQ	3	It is mandatory for the users to ask any question to the system admin by providing email address

5.1.3 Admin features

Features	Priority	Description
Registration	3	System must validate the user
Login	3	Authenticate user should be logged in
View Property Post	3	Admin can view property post
Update Property post	3	Admin can successfully update property post
Delete Property Post	3	Admin can delete property post
View Necessity Post	2	Admin can view necessity post
Update Necessity Post	3	Admin can update necessity post
Delete Necessity Post	3	Admin can delete necessity post
Add Area Guide	3	Admin can add area guide
View Area Guide	3	Admin can view area guide
Edit Area Guide	3	Admin can edit area guide
Delete Area Guide	3	Admin can delete area guide
Add Area Blog	3	Admin can add area blog
View Area Blog	3	Admin can view area blog
Edit Area Blog	3	Admin can edit area blog
Delete Area Blog	3	Admin can delete area blog
View FAQ	3	Admin can View FAQ

5.1.4 Tenant features

Features	Priority	Description
Registration	3	System must validate the user
Login	3	Authenticate user should be logged in
Create Necessity Post	3	Tenant can create necessity post with valid data
View Necessity Post	3	Tenant can view his own necessity post
Update Necessity post	3	Tenant can successfully update his necessity post
Delete necessity Post	3	Tenant can delete his own necessity post
View Property post	3	Tenant can able to see the property post
View Area Guide	2	Tenant can see the area guide
View Area Blog	2	Tenant can see the area blog

5.2 Requirements Traceability Matrix

Project Manager:			Business Analyst Lead:		
QA Lead:			Target Implementation Date:		
BR#	Requirement Description	Actor	Use Case Reference	Test Case Reference	Comments
BR-01	Registration	Owner, Tenant, Admin	3.2.1	5.3.1	
BR-02	Login	Owner, Tenant, Admin	3.2.2	5.3.2	
BR-03	Select user-role	Owner, Tenant, Admin	3.2.3	5.3.3	
BR-04	Create property post	Owner	3.2.4	5.3.4	
BR-05	View property post	Owner, Tenant, Admin	3.2.5	5.3.5	
BR-06	Update property post	Owner, Admin	3.2.6	5.3.6	
BR-07	Delete property post	Owner, Admin	3.2.7	5.3.7	
BR-08	Create necessity post	Tenant	3.2.8	5.3.8	
BR-09	View necessity post	Tenant, Admin, Owner	3.2.9	5.3.9	
BR-10	Update necessity post	Tenant, Admin	3.2.10	5.3.10	

BR-11	Delete necessity post	Tenant, Admin	3.2.11	5.3.11	
BR-12	Add area guide	Admin	3.2.12	5.3.12	
BR-13	View area guide	Tenant, Admin, Guest	3.2.13	5.3.13	
BR-14	Edit area guide	Admin	3.2.14	5.3.14	
BR-15	Delete area guide	Admin	3.2.15	5.3.15	
BR-16	Add area blog	Admin	3.2.16	5.3.16	
BR-17	View Area blog	Admin, Tenant, Guest	3.2.17	5.3.17	
BR-18	Update area blog	Admin	3.2.18	5.3.18	
BR-19	Delete area blog	Admin	3.2.19	5.3.19	
BR-20	FAQ	Admin, Guest	3.2.20	5.3.20	
BR-21	Logout	Admin, Owner, Tenant	3.2.21	5.3.21	

5.3 Black Box Testing with Test Cases

As we know, Black box testing is the process of test a software system without view the code. It just tests the application system using input valid and invalid. That's why I have used that.

5.3.1 Registration

Test Case: 5.3.1	Test Case Name: Registration									
System: Digital To-Let System	Subsystem:									
Designed by: Nijhum Sultana	Design Date:									
Executed by:	Execution Date:									
Description: Unregistered users can register for the system access.										
Pre-condition:										
<ul style="list-style-type: none"> • Email address must be unique • Password must be 8 characters 										
Step	Email	Password	Response	Pass/Fail	Comment					
1	nijhum@gmail.com	12345678	Registration Successful	Pass						
2	nijhum@gmail.com	12345678	Invalid email	Fail						
3	nijhum@gmail.com	1234	Password must contain 6 characters	Fail						
Post-condition: A new user account has been registered successfully										

5.3.2 Login

Test Case: 5.3.2	Test Case Name: Login									
System: Digital To-Let System	Subsystem:									
Designed by: Nijhum Sultana	Design Date:									
Executed by:	Execution Date:									
Description: Registered users can Login for the system access.										
Pre-condition:										
<ul style="list-style-type: none"> • Registration Successful 										
Step	Email	Password	Response	Pass/Fail	Comment					
1	nijhum@gmail.com	12345678	Registration successful	Pass						
2	mou@gmail.com	12345678	Invalid email	Fail						
3	nijhum@gmail.com	1234	Password must contain 6 characters	Fail						
Post-condition: A new user account has been registered successfully										

5.3.3 Select User-role

Test Case: 5.3.3	Test Case Name: Select User-role							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Users can Select role for role.								
Pre-condition:								
<ul style="list-style-type: none"> • N/A 								
Step	role	Response	Pass/Fail	Comment				
1	Tenant	Successful	Pass					
2	Owner	Successful	Pass					
3	Admin	Successful	Pass					
4	Null	Please select user-role	Fail					
Post-condition: A user can select User-role								

5.3.4 Create Property Post

Test Case: 5.3.4	Test Case Name: Create Property Post					
System: Digital To-Let System	Subsystem:					
Designed by: Nijhum Sultana	Design Date:					
Executed by:	Execution Date:					
Description: Authenticate User can Create Property Post						
Pre-condition:						
<ul style="list-style-type: none"> • Login to the system 						
Step	Form fill-up	Response	Pass/ Fail			
1	Users fill-up the required form properly	Submitted	Pass			
2	Users fill-up the required form except one/more field	All field must be required	Fail			
Post-condition: Property post should be created Successfully						

5.3.5 View Property Post

Test Case: 5.3.5	Test Case Name: View Property Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can view the Property posts								
Pre-condition:								
<ul style="list-style-type: none"> • Login to the system • Property post must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “View Property” Button	View Property	Pass					
Post-condition: Users can view Property post successfully								

5.3.6 Update Property Post

Test Case: 5.3.6	Test Case Name: Update Property Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate User can Update Property Post								
Pre-condition:								
<ul style="list-style-type: none"> • Login to the system • Property Post must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Update Some Info	Updated	Pass					
2	Update Nothing	Nothing Updated	Pass					
Post-condition: Property post should be updated successfully								

5.3.7 Delete Property Post

Test Case: 5.3.5	Test Case Name: Delete Property Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate User can successfully delete Property Post								
<p>Pre-condition:</p> <ul style="list-style-type: none"> • Login to the system • Create property post 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “Delete Property” Button	Deleted	Pass					
Post-condition: Users can view Property post successfully								

5.3.8 Create Necessity Post

Test Case: 5.3.8	Test Case Name: Create Necessity Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate User can Create Necessity Post								
Pre-condition:								
<ul style="list-style-type: none"> • Login to the system 								
Step	Form fill-up	Response	Pass/ Fail	Comment				
1	Users fill-up the required form properly	Submitted	Pass					
2	Users fill-up the required form except one/more field	All field must be required	Fail					
Post-condition: Necessity post should be created Successfully								

5.3.9 View Necessity Post

Test Case: 5.3.9	Test Case Name: View Necessity Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can view the Necessity posts								
Pre-condition: <ul style="list-style-type: none"> • Login to the system • Necessity post must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “View Necessity” Button	View necessity	Pass					
Post-condition: Users can view Necessity post successfully								

5.3.10 Update Necessity Post

Test Case: 5.3.10	Test Case Name: Update Necessity Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate User can Update Necessity Post								
Pre-condition: <ul style="list-style-type: none"> • Login to the system • Property Post must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Update Some Info	Updated	Pass					
2	Update Nothing	Nothing Updated	Pass					
Post-condition: Necessity post should be updated successfully								

5.3.11 Delete Necessity Post

Test Case: 5.3.11	Test Case Name: Delete necessity Post							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can delete necessity post successfully.								
Pre-condition:								
<ul style="list-style-type: none"> • Login to the system • Create property post 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “Delete Property”	Deleted	Pass					
Post-condition: Users can delete Necessity post successfully								

5.3.12 Add Area Guide

Test Case: 5.3.12	Test Case Name: Add Area Guide					
System: Digital To-Let System	Subsystem:					
Designed by: Nijhum Sultana	Design Date:					
Executed by:	Execution Date:					
Description: Admin can Add Area guide successfully						
Pre-condition:						
<ul style="list-style-type: none"> • Login to the system 						
Step	Form fill-up	Response	Pass/ Fail			
1	Users fill-up the required form properly	Submitted	Pass			
2	Users fill-up the required form except one/more field	All field must be required	Fail			
Post-condition: Area Guide should be created Successfully						

5.3.13 View Area Guide

Test Case: 5.3.13	Test Case Name: View Area Guide							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can view the Area Guide								
Pre-condition: <ul style="list-style-type: none"> • Login to the system • Area guide must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “View Area guide” Button	View Area Guide	Pass					
Post-condition: Users can view Area guide successfully								

5.3.14 Update Area Guide

Test Case: 5.3.14	Test Case Name: Update Area Guide							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate User can Update Area Guide								
Pre-condition: <ul style="list-style-type: none"> • Login to the system • Area guide must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Update Some Info	Updated	Pass					
2	Update Nothing	Nothing Updated	Pass					
Post-condition: Area guide should be updated successfully								

5.3.15 Delete Area Guide

Test Case: 5.3.15	Test Case Name: Delete Area Guide							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can delete Area guide successfully.								
<p>Pre-condition:</p> <ul style="list-style-type: none"> • Login to the system • Create Area guide 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “Delete Area Guide” Button	Deleted	Pass					
Post-condition: Users can delete Area Guide successfully								

5.3.16 Add Area Blog

Test Case: 5.3.16	Test Case Name: Add Area Blog							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Admin can Add Area blog successfully								
Pre-condition:								
<ul style="list-style-type: none"> • Login to the system 								
Step	Form fill-up	Response	Pass/ Fail	Comment				
1	Users fill-up the required form properly	Submitted	Pass					
2	Users fill-up the required form except one/more field	All field must be required	Fail					
Post-condition: Area blog should be created Successfully								

5.3.17 View Area Blog

Test Case: 5.3.17	Test Case Name: View Area Blog							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can view the Area Blog								
Pre-condition: <ul style="list-style-type: none"> • Login to the system • Area blog must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “View Area blog” Button	View Area Blog	Pass					
Post-condition: Users can view Area Blog successfully								

5.3.18 Edit Area Blog

Test Case: 5.3.18	Test Case Name: Update Area Blog							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate User can Update Area Blog								
Pre-condition: <ul style="list-style-type: none"> • Login to the system • Area blog must be created 								
Step	Action	Response	Pass/ Fail	Comment				
1	Update Some Info	Updated	Pass					
2	Update Nothing	Nothing Updated	Pass					
Post-condition: Area blog should be updated successfully								

5.3.19 Delete Area Blog

Test Case: 5.3.19	Test Case Name: Delete Area Blog							
System: Digital To-Let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Authenticate user can delete Area blog successfully.								
<p>Pre-condition:</p> <ul style="list-style-type: none"> • Login to the system • Create Area blog 								
Step	Action	Response	Pass/ Fail	Comment				
1	Click on “Delete Area Blog” Button	Deleted	Pass					
Post-condition: Users can delete Area blog successfully								

5.3.20 FAQ

Test Case: 5.3.20	Test Case Name: FAQ					
System: Digital To-Let System	Subsystem:					
Designed by: Nijhum Sultana	Design Date:					
Executed by:	Execution Date:					
Description: Users can Ask any question to the Admin						
Pre-condition:						
<ul style="list-style-type: none"> • N/A 						
Step	Form fill-up	Response	Pass/ Fail			
1	Users fill-up the required form properly	Submitted	Pass			
2	Users fill-up the required form except one/more field	All field must be required	Fail			
Post-condition: FAQ should be sent to Admin Successfully						

5.3.21 Logout

Test Case: 5.3.21	Test Case Name: Log Out							
System: Digital To-let System	Subsystem:							
Designed by: Nijhum Sultana	Design Date:							
Executed by:	Execution Date:							
Description: Registered members can log out from their dashboard and end session								
Pre-condition:								
<ul style="list-style-type: none"> The member must be logged in 								
Step	Action	Response	Pass/Fail	Comment				
1	Member clicks on “Log Out” button	System will end the session and bring the user to the “Home” page	Pass					
Post-condition: Member logs out from their dashboard								

CHAPTER 6

USER MANUAL

6.1 Home Page

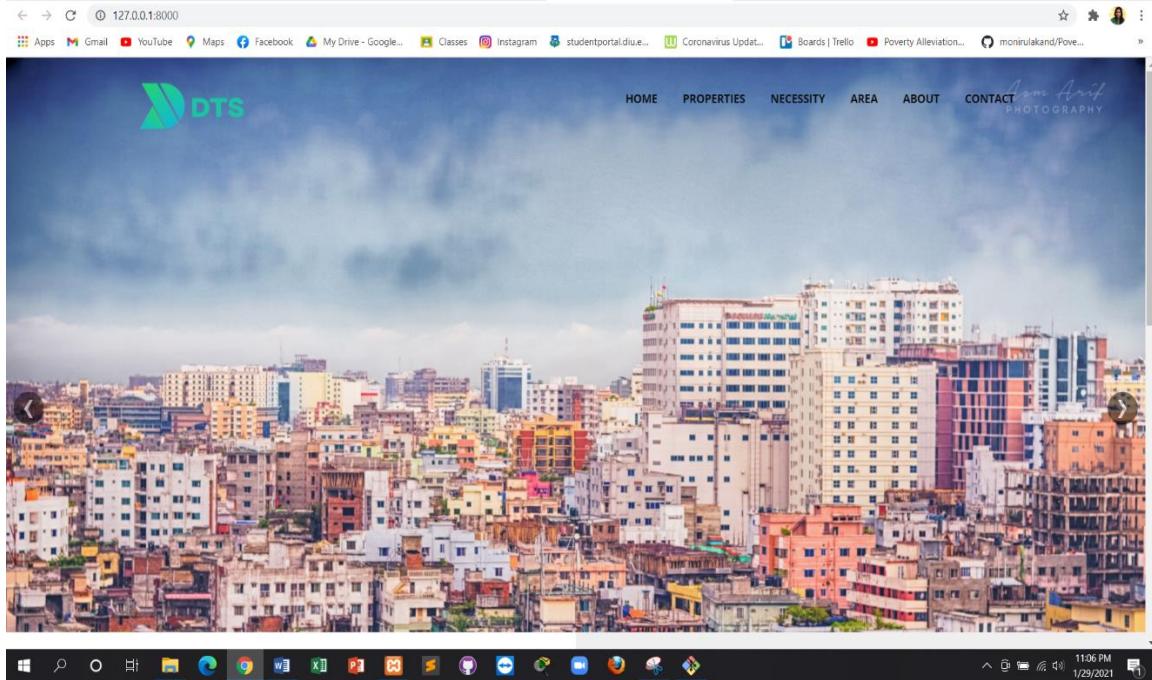


Figure 6.1: Home page

6.2 Property for Guest

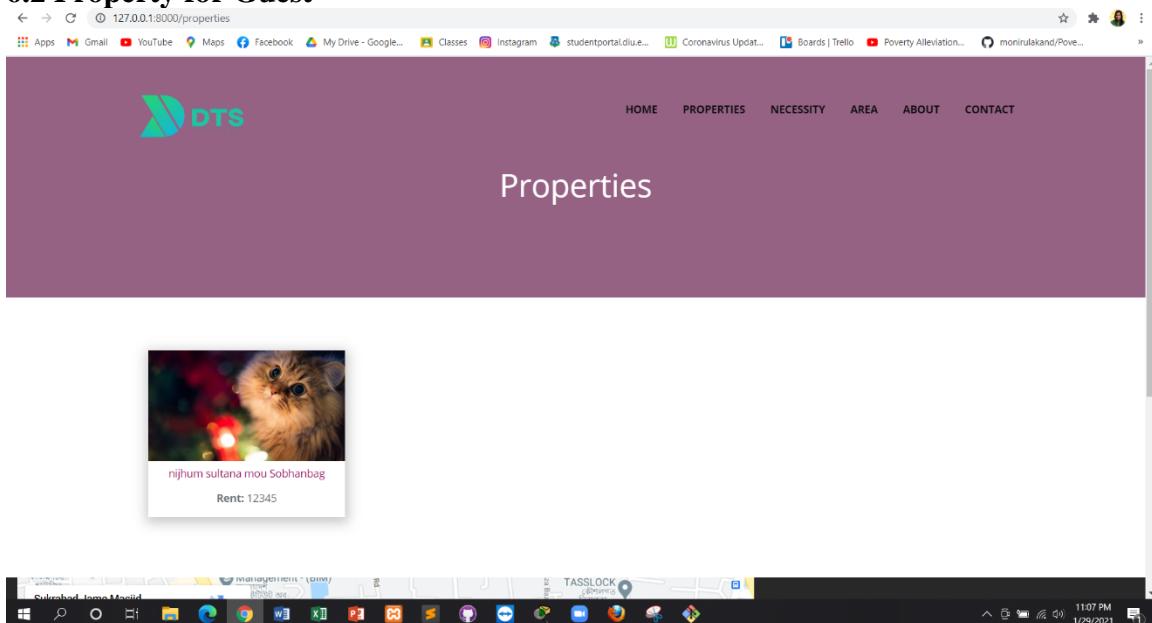


Figure 6.2: Property for Guest

6.3 Necessity for Guest

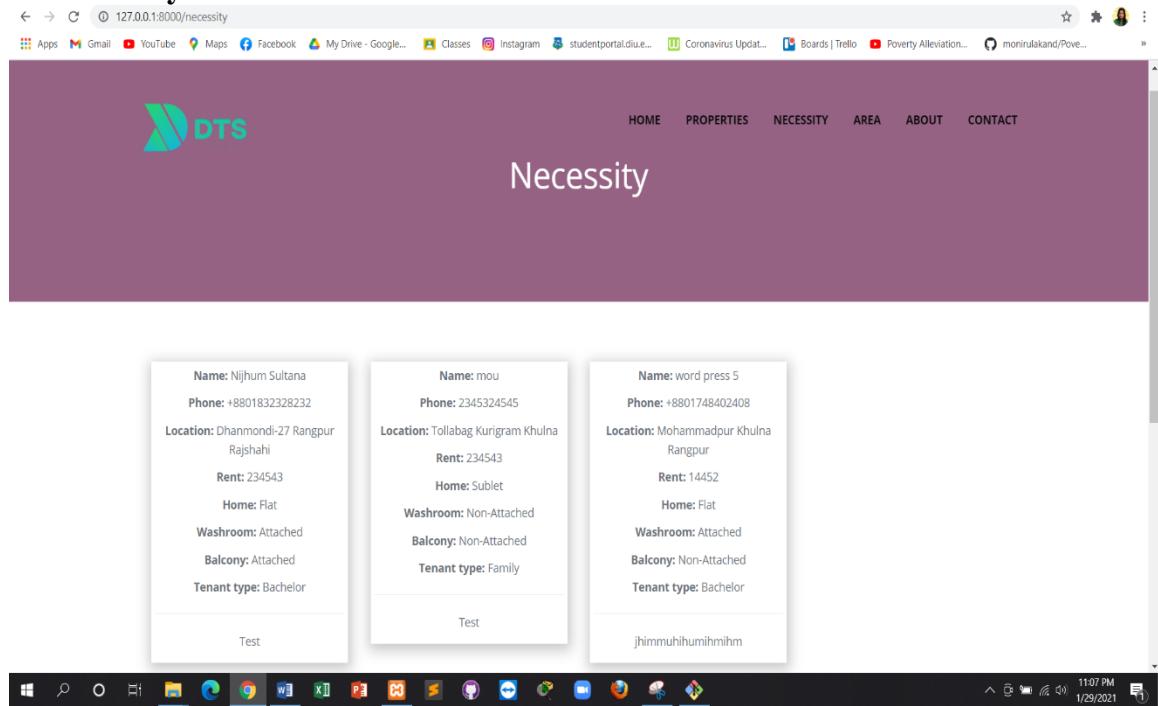


Figure 6.3: Necessity for Guest

6.4 Area Guide

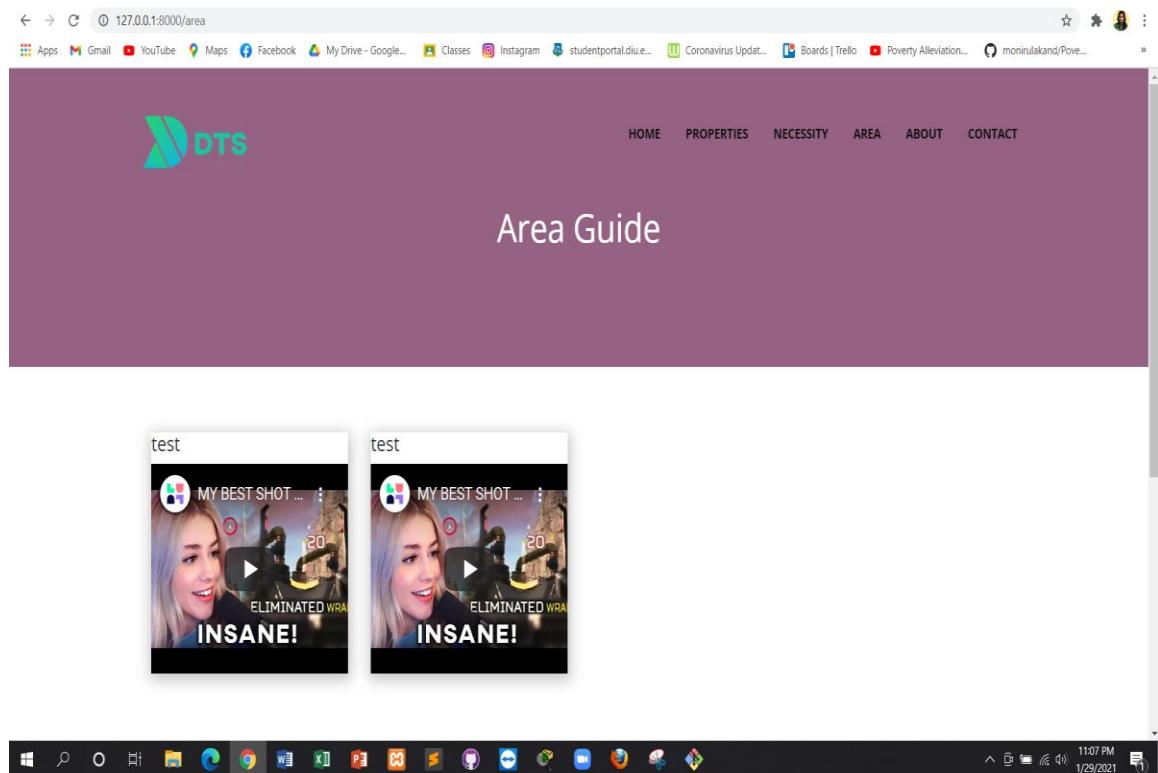


Figure 6.4: Area Guide

6.5 About Us

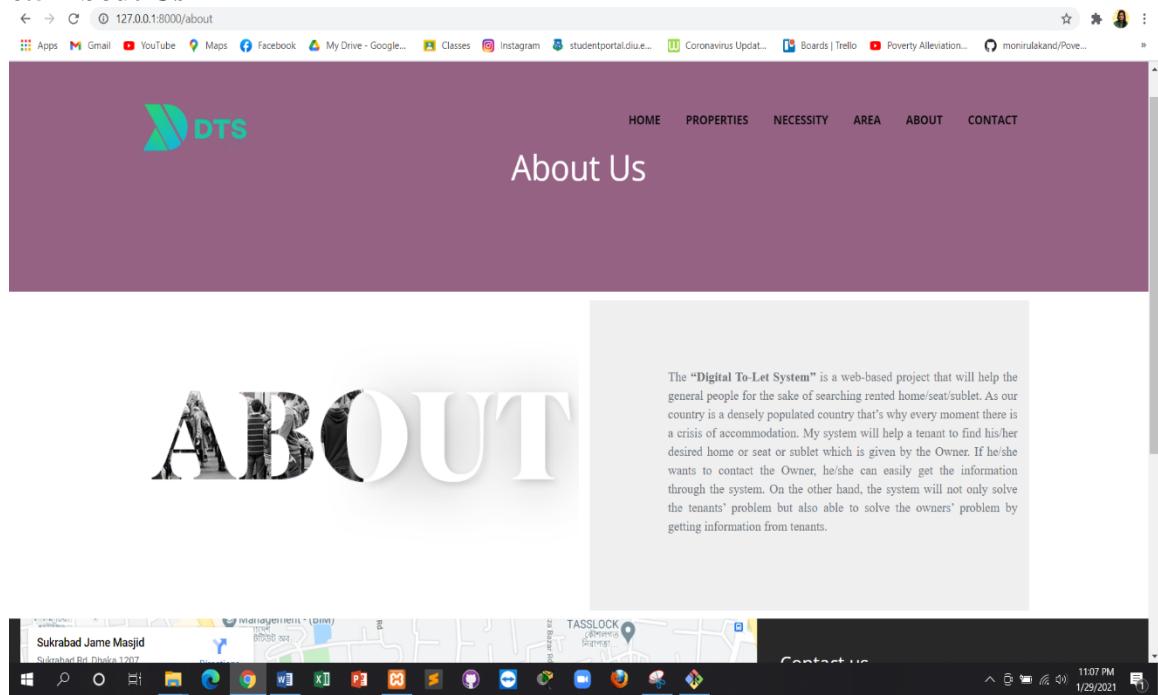


Figure 6.5: About Us

6.6 Contact Us

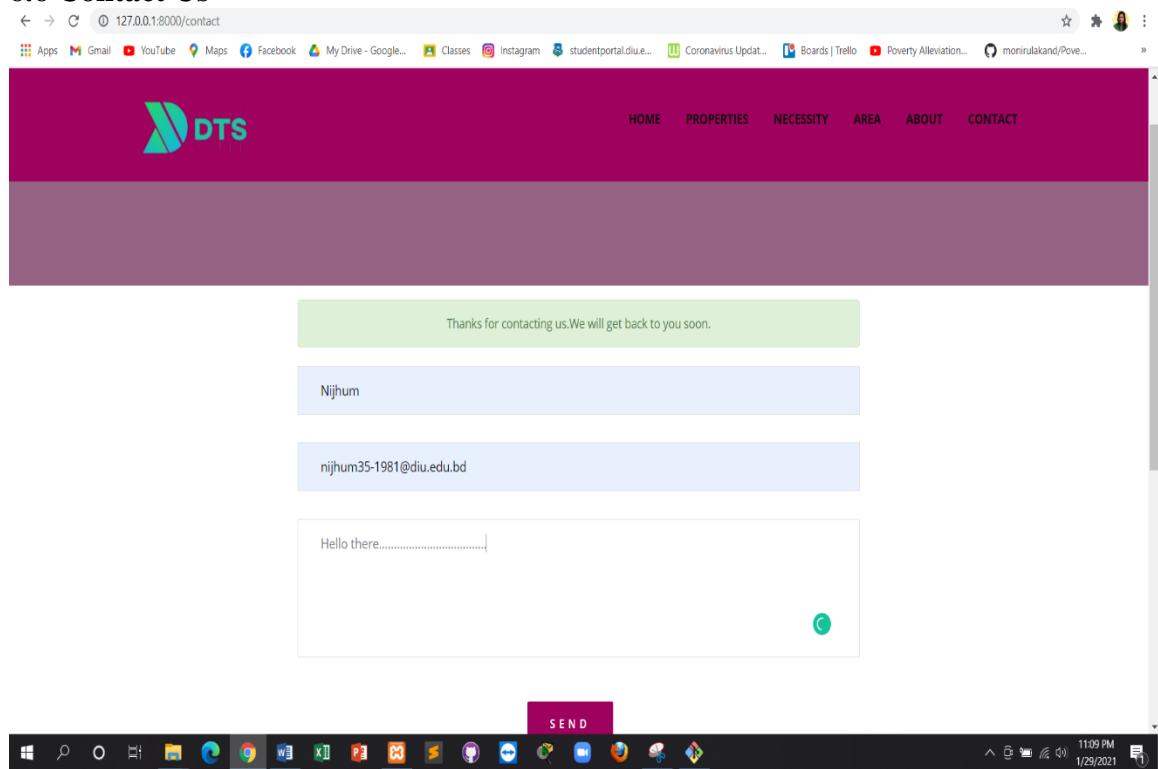
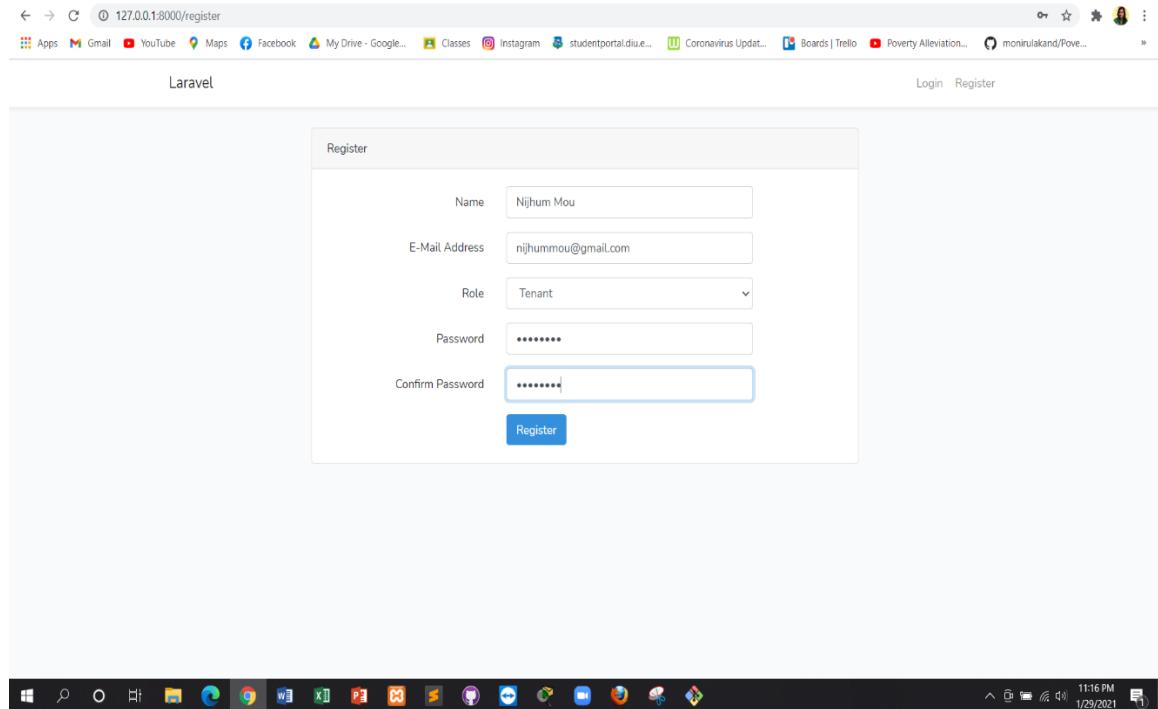


Figure 6.6: Contact Us

6.7 Registration Page



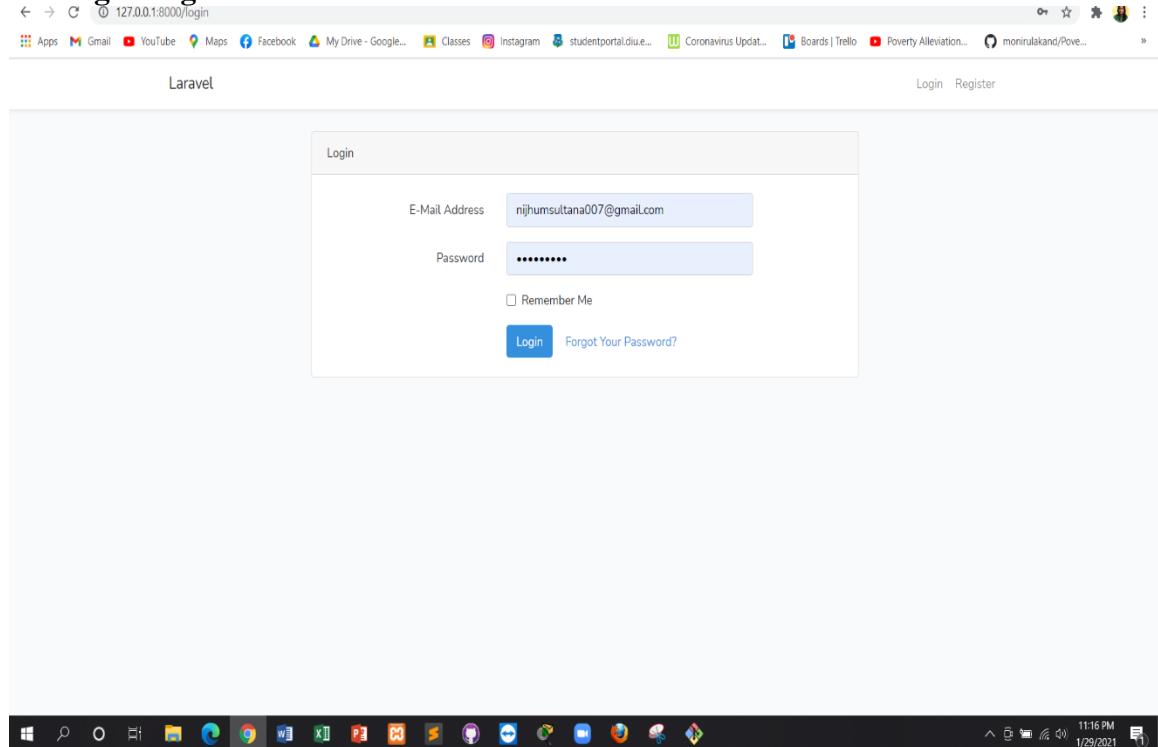
The screenshot shows a web browser window for a Laravel application at the URL 127.0.0.1:8000/register. The page title is "Laravel". At the top right, there are links for "Login" and "Register". The main content area is titled "Register" and contains five input fields:

- Name: Nijhum Mou
- E-Mail Address: nijhummou@gmail.com
- Role: Tenant
- Password: [REDACTED]
- Confirm Password: [REDACTED]

At the bottom of the form is a blue "Register" button.

Figure 6.7: Registration Page

6.8 Login Page



The screenshot shows a web browser window for a Laravel application at the URL 127.0.0.1:8000/login. The page title is "Laravel". At the top right, there are links for "Login" and "Register". The main content area is titled "Login" and contains three input fields and one checkbox:

- E-Mail Address: nijhum.sultana007@gmail.com
- Password: [REDACTED]
- Remember Me

At the bottom of the form are two buttons: a blue "Login" button and a link "Forgot Your Password?".

Figure 6.8: Login Page

6.9 Forget Password

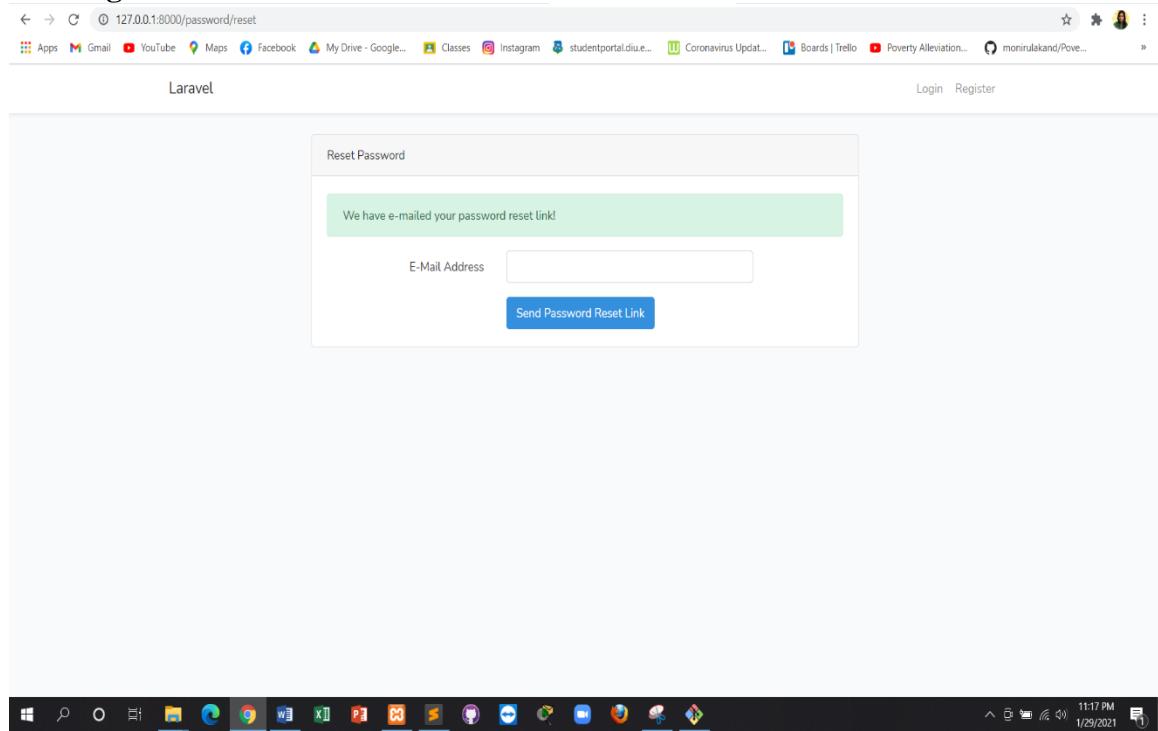


Figure 6.9: Forget Password

6.10 Admin Dashboard

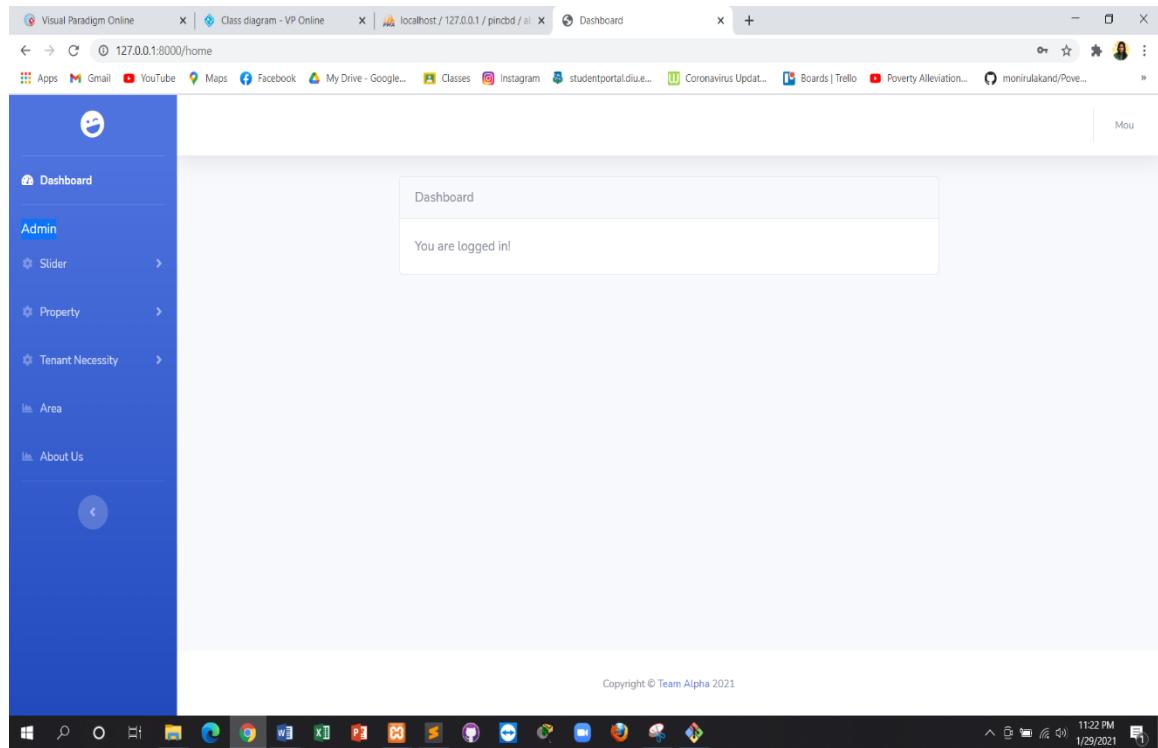


Figure 6.10: Admin Dashboard

6.11 Property view for Admin

The screenshot shows a web-based administrative interface for managing properties. On the left, a sidebar menu includes 'Dashboard', 'Admin' (selected), 'Slider', 'Property' (selected), 'Add New', and 'View All'. The main content area is titled 'Property' and displays a table of existing entries. The columns are: Owner Name, Mobile No, Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, and Balcony-Quantity. One entry is visible: 'nijhum sultana mou' with details +8801748402406, Rangpur, Bogura, Sobhanbag, Bachelor, yes, 12345, 2, 2, 2. Below the table, a message says 'Showing 1 to 1 of 1 entries'. The bottom right corner shows the URL '127.0.0.1:8000/admin/property/index' and the system status 'Copyright © Team Alpha 2021'.

Figure 6.11: Property view for Admin

6.12 Add Property for Admin

The screenshot shows the same administrative interface as Figure 6.11, but with a success message at the top right: '✓ You Successfully added Property'. The main content area shows the updated table of properties. A new entry has been added: 'word press 5' with details +8801747402406, Mymensingh, Bogura, Sobhanbag, Bachelor, No, 12345, 1, 1, 1. The bottom right corner shows the URL '127.0.0.1:8000/admin/property/index' and the system status 'Copyright © Team Alpha 2021'.

Figure 6.12: Add Property for Admin

6.13 Update Property for Admin

The screenshot shows a web-based administration interface. The URL is 127.0.0.1:8000/admin/property/index. A green success message at the top right says "Property updated successfully". The main content area is titled "Property" and contains a table with two rows of data. The columns are: Owner Name, Mobile No, Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, and Balcony-Quantity. The first row has values: nijhum sultana mou, +8801748402406, Rangpur, Khulna, Dhammondi-32, Family, yes, 22000, 2, 2, 2. The second row has values: word press 5, +8801747402406, Mymensingh, Bogura, Sobhanbag, Bachelor, No, 12345, 1, 1, 1. Below the table, it says "Showing 1 to 2 of 2 entries". The bottom status bar shows the date 1/29/2021 and time 11:25 PM.

Owner Name	Mobile No	Division	District	Location	Tenant Type	Lift	Rent	Room-Quantity	Washroom-Quantity	Balcony-Quantity
nijhum sultana mou	+8801748402406	Rangpur	Khulna	Dhammondi-32	Family	yes	22000	2	2	2
word press 5	+8801747402406	Mymensingh	Bogura	Sobhanbag	Bachelor	No	12345	1	1	1

Figure 6.13: Update Property for Admin

6.14 Delete Property for Admin

The screenshot shows a web-based administration interface. The URL is 127.0.0.1:8000/admin/property/index. A green success message at the top right says "Property Deleted successfully". The main content area is titled "Property" and contains a table with one row of data. The columns are: Owner Name, Mobile No, Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, and Balcony-Quantity. The row has values: Nijhum Sultana, +8801748402406, Sylhet, Khulna, Tollabag, Bachelor, No, 12345, 1, 1, 2, 5. Below the table, it says "Showing 1 to 1 of 1 entries". The bottom status bar shows the date 1/30/2021 and time 10:10 PM.

Owner Name	Mobile No	Division	District	Location	Tenant Type	Lift	Rent	Room-Quantity	Washroom-Quantity	Balcony-Quantity	
Nijhum Sultana	+8801748402406	Sylhet	Khulna	Tollabag	Bachelor	No	12345	1	1	2	5

Figure 6.14: Delete Property for Admin

6.15 Necessity view for Admin

The screenshot shows a web-based application interface for managing tenant necessities. The left sidebar has a blue header 'Dashboard' and a 'Admin' section with links for Slider, Property, Tenant Necessity (which is selected), Area, and About Us. The main content area is titled 'Tenant Necessity' with a search bar and a table. The table has columns: ID, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, Comment, and Action. There are three entries displayed:

ID	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comment	Action
I5	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test	Edit Delete
I28232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test	Edit Delete
I02408	Rangpur	Khulna	Mohammadpur	Bachelor	14452	Flat	Attached	Non-Attached	jhimmuhumihimihmih	Edit Delete

At the bottom right of the table is a navigation bar with 'Previous', '1', and 'Next'. The status bar at the bottom indicates 'Copyright © Team Alpha 2021', the date '1/29/2021', and the time '11:28 PM'.

Figure 6.15: Necessity view for Admin

6.16 Add Necessity for Admin

The screenshot shows the 'Add New' functionality for tenant necessities. The left sidebar is identical to Figure 6.15. The main content area is titled 'Tenant Necessity' with a success message 'You Successfully added Necessity' in a green box. Below it is a table with columns: Tenant Name, Phone, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, and Comm. There are four entries displayed:

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comm
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nadim Hasan	01745214586	Rajshahi	Kurigram	Badda	Bachelor	2244	Seat	Non-Attached	Non-Attached	nothing
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
word press 5	+8801748402408	Rangpur	Khulna	Mohammadpur	Bachelor	14452	Flat	Attached	Non-Attached	jhimmuhumihimihmih

At the bottom right of the table is a navigation bar with 'Previous', '1', and 'Next'. The status bar at the bottom indicates 'Showing 1 to 4 of 4 entries', the date '1/29/2021', and the time '11:28 PM'.

Figure 6.16: Add Necessity for Admin

6.17 Update Necessity for Admin

The screenshot shows a web application interface for managing tenant necessities. The left sidebar has a blue header 'Dashboard' and a 'Admin' section with links for 'Slider', 'Property', 'Tenant Necessity', 'Area', and 'About Us'. The main content area is titled 'Tenant Necessity' and displays a table of tenant data. A green success message at the top right says 'Tenant updated successfully'. The table columns include Tenant Name, Phone, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, and Comments. The data shows four entries: mou, Nadim Hasan, Nijhum Sultana, and word press 5. The bottom of the page shows a navigation bar with icons and a status bar indicating 11:31 PM and 1/29/2021.

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comments
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nadim Hasan	01745214586	Rajshahi	Kurigram	Badda	Bachelor	2244	Seat	Non-Attached	Non-Attached	nothing
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
word press 5	+8801748402408	Barishal	Bogura	Tollabag	Bachelor	4622	Seat	Attached	Attached	tenant po

Figure 6.17: Update Necessity for Admin

6.18 Delete Necessity for Admin

The screenshot shows the same web application interface as Figure 6.17. The main content area is titled 'Tenant Necessity' and displays the same table of tenant data. A green success message at the top right says 'Property Deleted successfully'. The data shows the same four entries as Figure 6.17. The bottom of the page shows a navigation bar with icons and a status bar indicating 10:26 PM and 1/29/2021.

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comments
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
Nijhum Sultana	+8801748402406	Barishal	Natore	Badda	Family	12356	Sublet	Attached	Attached	nothing
word press 5	+8801748402408	Barishal	Bogura	Tollabag	Bachelor	4622	Seat	Attached	Attached	tenant po

Figure 6.18: Delete Necessity for Admin

6.19 Add Area Guide

The screenshot shows a web application interface for managing areas. On the left, there's a sidebar with navigation links: Admin, Slider, Property, Tenant Necessity, Area (which is selected and highlighted in blue), and About Us. The main content area has a title 'Area' and a table listing three entries. A green success message at the top right says 'You Successfully added area guide'. The table columns are No, Area, Link, and Action. The first two rows have 'test' in the Area column and a unique link in the Link column. The third row has 'Mirpur-2' in the Area column and a unique link in the Link column. Below the table, it says 'Showing 1 to 3 of 3 entries'. At the bottom right of the page, there's a footer with 'Copyright © Team Alpha 2021' and a date/time stamp '11:32 PM 1/29/2021'.

Figure 6.19: Add Area Guide

6.20 View Area Guide for Admin

This screenshot is similar to Figure 6.19 but shows two entries instead of three. The table lists 'test' for both rows in the Area column and unique links in the Link column. The rest of the interface, including the sidebar, message bar, and footer, is identical to Figure 6.19.

Figure 6.20: View Area Guide for Admin

6.21 Delete Area guide

The screenshot shows a web-based administrative interface for managing areas. On the left, there's a sidebar with navigation links: Admin, Slider, Property, Tenant Necessity, Area (which is selected), and About Us. The main content area has a title 'Area' and a table with columns: No, Area, Link, and Action. There are two entries: one with 'test' in the Area column and another with 'Mirpur-2'. Each entry has a red trash can icon in the Action column. At the top right, a green success message box says 'Area guide Deleted successfully'. Below the table, it says 'Showing 1 to 2 of 2 entries'. The bottom of the screen shows a Windows taskbar with various application icons.

Figure 6.21: Delete Area guide

6.22 Manage About Us

The screenshot shows a web-based administrative interface for managing about us sections. On the left, there's a sidebar with navigation links: Admin, Slider, Property, Tenant Necessity, Area, and About Us (which is selected). The main content area has a title 'About Us' and a table with columns: Title, Details, Image, and Action. There are three entries. The first entry is titled 'About Us' and contains a detailed description of the 'Digital To-Let System'. The second and third entries are both titled 'About Us' and contain descriptions about Bangladesh's population density and education. Each entry has a blue edit icon in the Action column. The bottom of the screen shows a Windows taskbar with various application icons.

Figure 6.22: Manage About Us

6.23 Logout for Admin

The screenshot shows a web-based application interface for an admin dashboard. The URL in the address bar is 127.0.0.1:8000/admin/about/index. The left sidebar has a blue header 'Admin' and a list of items: Slider, Property, Tenant Necessity, Area, and About Us. The 'About Us' item is currently selected and highlighted in blue. The main content area is titled 'About Us' and contains a table with three rows. The first row has the title 'About Us' and the details: 'The "Digital To-Let System" is a web-based project that will help the general people for the sake of searching rented home/seat/sublet. As our country is a densely populated country that's why every moment there is a crisis of accommodation. My system will help a tenant to find his/her desired home or seat or sublet which is given by the Owner. If he/she wants to contact the Owner, he/she can easily get the information through the system. On the other hand, the system will not only solve the tenants' problem but also able to solve the owners' problem by getting information from tenants.' The second row has the title 'About Us' and the details: 'Bangladesh is the most densely populated country in the world. Bangladesh ranks 11th in terms of population density. That's why its population faces an accommodation problem. Bangladesh is improving the Educational sector day by day. Even the Rural students have realized the value of education. They are moving to the city for the sake of satisfying their hunger for education. As all the students don't belong to a well-established family, so they want to complete their education with limited expenses. In our country, all industrial factories are situated in urban areas. That's why everyone from the lower class people to the upper-middle class is moving to the city. That's why there is a crisis for housing every year.' The third row has the title 'About Us' and the details: 'Bangladesh is the most densely populated country in the world. Bangladesh ranks 11th in terms of population density. That's why its population faces an accommodation problem. Bangladesh is improving the Educational sector day by day. Even the Rural students have realized the value of education. They are moving to the city for the sake of satisfying their hunger for education. As all the students don't belong to a well-established family, so they want to complete their education with limited expenses. In our country, all industrial factories are situated in urban areas. That's why everyone from the lower class people to the upper-middle class is moving to the city. That's why there is a crisis for housing every year.' There are edit icons next to each row. The top right corner has a 'Logout' button. The bottom right corner shows the date and time: 11:35 PM 1/29/2021.

Figure 6.23: Logout for Admin

6.24 Owner Dashboard

The screenshot shows a web-based application interface for an owner dashboard. The URL in the address bar is 127.0.0.1:8000/home. The left sidebar has a blue header 'Owner' and a list of items: Property and Tenant Necessity. The 'Property' item is currently selected and highlighted in blue. The main content area is titled 'Dashboard' and contains a message: 'You are logged in!'. At the bottom of the page, there is a copyright notice: 'Copyright © Team Alpha 2021'. The bottom right corner shows the date and time: 11:35 PM 1/29/2021.

Figure 6.24: Owner Dashboard

6.25 Create Property Post for Owner

The screenshot shows a web application interface for managing property posts. At the top, there is a header bar with various icons and a URL: 127.0.0.1:8000/admin/property/index. A green success message box displays "✓ You Successfully added Property". The main content area has a title "Property" and a table with the following data:

Owner Name	Module No	Division	District	Location	Tenant Type	Lift	Rent	Room-Quantity	Washroom-Quantity	Balcony-Quantity
Nijhum Sultana	+8801748402406	Sylhet	Khulna	Tollabag	Bachelor	No	12345	1	1	2
word press 5	+8801747402406	Mymensingh	Bogura	Sobhanbag	Bachelor	No	12345	1	1	1

Below the table, a message says "Showing 1 to 2 of 2 entries". The bottom right corner of the screen shows the date and time: 1/29/2021 11:37 PM.

Figure 6.25: Create Property Post for Owner

6.26 View Property Post for Owner

The screenshot shows a web application interface for viewing property posts. At the top, there is a header bar with various icons and a URL: 127.0.0.1:8000/admin/property/index. A green success message box displays "✓ You Successfully added Property". The main content area has a title "Property" and a table with the following data:

Owner Name	Module No	Division	District	Location	Tenant Type	Lift	Rent	Room-Quantity	Washroom-Quantity	Balcony-Quantity
Nijhum Sultana	+8801748402406	Sylhet	Khulna	Tollabag	Bachelor	No	12345	1	1	2
word press 5	+8801747402406	Mymensingh	Bogura	Sobhanbag	Bachelor	No	12345	1	1	1

Below the table, a message says "Showing 1 to 2 of 2 entries". The bottom right corner of the screen shows the date and time: 1/29/2021 11:37 PM.

Figure 6.26: View Property Post for Owner

6.27 Update Property Post for Owner

The screenshot shows a web application interface for managing properties. The top navigation bar includes links for Gmail, YouTube, Maps, Facebook, My Drive - Google..., Classes, Instagram, studentportal.diu.e..., Coronavirus Update..., Boards | Trello, Poverty Alleviation..., and monirulakand/Pove... A green success message at the top right says "Property updated successfully". The main content area is titled "Property" and contains a table with columns: Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, Balcony-Quantity, Floor, Image, and Comment. Two rows of data are visible: one for Sylhet with a logo and another for Chittagong. A search bar and navigation buttons (Previous, Next) are at the bottom of the table.

Figure 6.27: Update Property Post for Owner

6.28 Delete Property Post for Owner

The screenshot shows a web application interface for managing properties. The top navigation bar includes links for Gmail, YouTube, Maps, Facebook, My Drive - Google..., Classes, Instagram, studentportal.diu.e..., Coronavirus Update..., Boards | Trello, Poverty Alleviation..., and monirulakand/Pove... A green success message at the top right says "Property Deleted successfully". The main content area is titled "Property" and contains a table with columns: Owner Name, Mobile No, Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, Balcony-Quantity, and Floor. A dropdown menu "Show 10 entries" is present. Below the table, a message says "No data available in table". A search bar and navigation buttons (Previous, Next) are at the bottom of the table.

Figure 6.28: Delete Property Post for Owner

6.29 View Necessity Post for Owner

The screenshot shows a web application interface for managing tenant necessities. The top navigation bar includes links for Apps, Gmail, YouTube, Maps, Facebook, My Drive - Google..., Classes, Instagram, studentportal.diu.e..., Coronavirus Updat..., Boards | Trello, Poverty Alleviation..., and monirulakand/Pove... A user profile for 'monirul islam' is visible on the right.

The main content area is titled 'Tenant Necessity'. It features a table with columns: Tenant Name, Phone, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, and Comments. The table contains four entries:

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comments
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nadim Hasan	01745214586	Rajshahi	Kurigram	Badda	Bachelor	2244	Seat	Non-Attached	Non-Attached	nothing
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
word press 5	+8801748402408	Barishal	Bogura	Tollabag	Bachelor	4622	Seat	Attached	Attached	tenant po

Below the table, a message says 'Showing 1 to 4 of 4 entries'. Navigation buttons for 'Previous', '1', and 'Next' are present. The bottom status bar shows the URL '127.0.0.1:8000/admin/tenant/index#', the time '11:39 PM', and the date '1/29/2021'.

Figure 6.29: View Necessity Post for Owner

6.30 Logout for Owner

This screenshot is identical to Figure 6.29, showing the 'Tenant Necessity' list for an owner. The data in the table remains the same, and the interface is consistent. The bottom status bar shows the URL '127.0.0.1:8000/admin/tenant/index#', the time '11:39 PM', and the date '1/29/2021'.

Figure 6.30: Logout for Owner

6.31 Tenant Dashboard

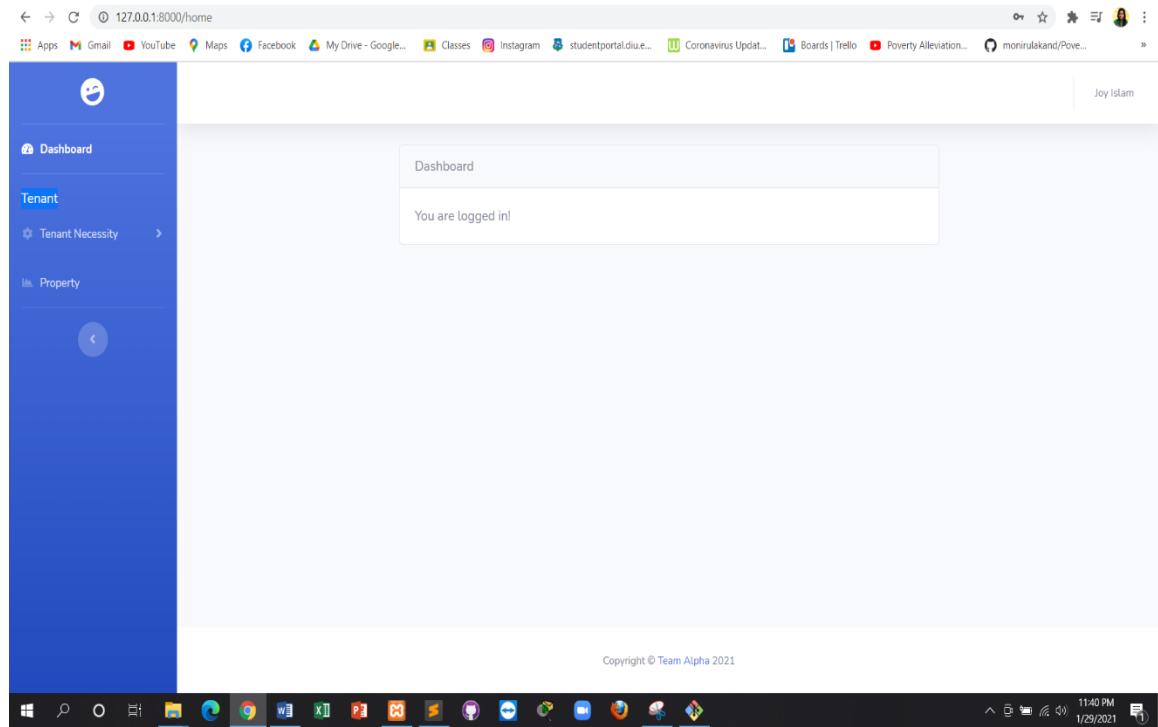


Figure 6.31: Tenant Dashboard

6.32 Create Necessity Post for Tenant

A screenshot of a web browser window titled "127.0.0.1:8000/admin/tenant/index". The sidebar on the left is identical to Figure 6.31. The main area shows a table titled "Tenant Necessity" with the message "You Successfully added Necessity!" in a green box. The table has columns: Tenant Name, Phone, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, and Comments. The table contains five entries:

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comments
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nadim Hasan	01745214586	Rajshahi	Kurigram	Badda	Bachelor	2244	Seat	Non-Attached	Non-Attached	nothing
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
Nijhum Sultana	+8801748402406	Barishal	Natore	Badda	Family	12356	Sublet	Attached	Attached	nothing
word press 5	+8801748402408	Barishal	Bogura	Tollabag	Bachelor	4622	Seat	Attached	Attached	tenant po

Figure 6.32: Create Necessity Post for Tenant

6.33 View Necessity Post for Tenant

The screenshot shows a web application interface for managing tenant necessities. The URL is 127.0.0.1:8000/admin/tenant/index. The main content area is titled "Tenant Necessity". It displays a table with 5 rows of data. The columns are: Tenant Name, Phone, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, and Comments. The data includes entries for mou, Nadim Hasan, Nijhum Sultana, Nijhum Sultana, and word press 5. A green success message at the top right says "You Successfully added Necessity". The bottom of the screen shows a Windows taskbar with various icons.

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comments
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nadim Hasan	01745214586	Rajshahi	Kurigram	Badda	Bachelor	2244	Seat	Non-Attached	Non-Attached	nothing
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
Nijhum Sultana	+8801748402406	Barishal	Natore	Badda	Family	12356	Sublet	Attached	Attached	nothing
word press 5	+8801748402408	Barishal	Bogura	Tollabag	Bachelor	4622	Seat	Attached	Attached	tenant po

Figure 6.33: View Necessity Post for Tenant

6.34 Update Necessity Post for Tenant

The screenshot shows the same web application interface as Figure 6.33, but with a different success message: "Tenant updated successfully". The table data remains the same. The bottom of the screen shows a Windows taskbar with various icons.

Tenant Name	Phone	Division	District	Location	Tenant Type	Budget	Home	Washroom	Balcony	Comments
mou	2345324545	Khulna	Kurigram	Tollabag	Family	234543	Sublet	Non-Attached	Non-Attached	Test
Nadim Hasan	01745214586	Chittagong	Dinajpur	Sobhanbag	Bachelor	2244	Seat	Non-Attached	Non-Attached
Nijhum Sultana	+8801832328232	Rajshahi	Rangpur	Dhanmondi-27	Bachelor	234543	Flat	Attached	Attached	Test
Nijhum Sultana	+8801748402406	Barishal	Natore	Badda	Family	12356	Sublet	Attached	Attached	nothing
word press 5	+8801748402408	Barishal	Bogura	Tollabag	Bachelor	4622	Seat	Attached	Attached	tenant pc

Figure 6.34: Update Necessity Post for Tenant

6.35 Delete Necessity Post for Tenant

The screenshot shows a web application interface for managing tenant necessities. The URL is 127.0.0.1:8000/admin/tenant/index. On the left sidebar, under the 'Tenant' section, 'Tenant Necessity' is selected. The main content area is titled 'Tenant Necessity' and contains a table with three rows of data. The first row is for 'Nijhum Sultana' with phone '+8801832328232', location 'Rangpur', and 'Dhanmondi-27'. The second row is for 'Nijhum Sultana' with phone '+8801748402406', location 'Barishal', and 'Natore'. The third row is for 'word press 5' with phone '+8801748402408', location 'Bogura', and 'Tollabag'. The table includes columns for Tenant Name, Phone, Division, District, Location, Tenant Type, Budget, Home, Washroom, Balcony, and Comment. A green success message at the top right says 'Property Deleted successfully' with a checkmark icon. Below the table, it says 'Showing 1 to 3 of 3 entries'. The bottom status bar shows the date as 1/30/2021 and the time as 11:12 PM.

Figure 6.35: Delete Necessity Post for Tenant

6.36 View Property Post for Tenant

The screenshot shows a web application interface for viewing property posts. The URL is 127.0.0.1:8000/admin/property/index. On the left sidebar, under the 'Property' section, 'Property' is selected. The main content area is titled 'Property' and contains a table with one row of data. The row is for 'Nijhum' with phone '+8801748402406', location 'Rangpur', and 'Kurigram'. The table includes columns for Owner Name, Mobile No, Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, and Balcony-Quantity. A blue success message at the top right says 'Add New' with a plus sign icon. Below the table, it says 'Showing 1 to 1 of 1 entries'. The bottom status bar shows the date as 1/30/2021 and the time as 11:11 PM.

Figure 6.36: View Property Post for Tenant

6.37 Logout for Tenant

The screenshot shows a web-based application interface for managing property listings. The top navigation bar includes links for Apps, Gmail, YouTube, Maps, Facebook, My Drive - Google..., Classes, Instagram, studentportal.diu.e..., Coronavirus Update..., Boards | Trello, Poverty Alleviation..., and monirulakand/Pove... A user profile for 'Joy Islam' is visible on the right.

The main content area is titled 'Property' and displays a table of property records. The table has columns for Owner Name, Module No., Division, District, Location, Tenant Type, Lift, Rent, Room-Quantity, Washroom-Quantity, and Balcony-Quantity. One record is listed:

Owner Name	Module No.	Division	District	Location	Tenant Type	Lift	Rent	Room-Quantity	Washroom-Quantity	Balcony-Quantity
Nijhum	+8801748402406	Rangpur	Kurigram	Mohammadpur	Bachelor	No	14569	1	1	1

Below the table, a message says 'Showing 1 to 1 of 1 entries'. Navigation buttons for 'Previous' and 'Next' are shown. The bottom of the screen shows a taskbar with various application icons and the system clock indicating 11:11 PM on 1/30/2021.

Figure 6.37: Logout for Tenant

CHAPTER 7

CONCLUSION

7.1 GitHub Link

<https://github.com/NijhumSultanaMou/Final-Project>

7.2 Project Summary

I have started to work on this project from December 2020. Actually, I built this project for public purpose. This site helps users a lot by reducing their time and cost. Public can get the facility of servicing system. They can find their accommodation easily staying at their home.

7.3 Limitation

I have tried my level best to make things better but some of the required features are not properly created.

- UI is not so good as it should.

7.4 Future Scope

- Notification for the registered user
- User profile update
- Admin approval

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