THE NEEDS DOCUMENT

OF THE

HOME-RENT WEB APPLICATION

1. INTRODUCTION

The customers are renters who want to look for a place to reside in Naga City. They would want to find a temporary place to live for work, study, and business. They state that some properties are not visible or hard to find online, especially the cheaper ones.

This project aims to address the needs of the customers by creating a web-based system that services properties to be found on a web application.

2. MISSION STATEMENT

The mission of this project is to provide the following:

1. A web-based system that allows the users to find a suitable place to live in Naga City.
   This allows the users to explore various housing properties that will offer a safe and comfortable environment to reside.
2. An application that is accessible and efficient in finding a housing property.
   This system shall be usable regardless of technology experience. This also promotes continuous usage that should keep the system flowing.

3. TECHNICAL OBJECTIVES

Technical Objectives	Performance Measures
Create a website that allows users to register an account.	Presence of a registration and login module. Users must be able to login and out of the system.
Create a website that allows registered users to post apartments, condo, house, or a place for rent.	Presence of an apartment, condo, house, place recording module. The recording module must only be accessible by registered users.
Create a website that allows registered users to rent apartments, condo, house, or a place.	Presence of a simple ecommerce module. Renting can only be accomplished by registered users.
Create a website that allows users to search and browse apartments, condo, house, or a place for rent.	Presence of a simple and advanced database search module. Presence of portfolio modules containing information on each service or seller.
Create a front-end using usable 3rd party templates.	Usability surveys should result with at least an “acceptable” rating.

4. SCOPE AND LIMITATIONS

This project aims to develop a web application that allows users to find rental property within Naga City. The users are categorized into two: the owner that posts rental properties and the renter who searches for available room space to rent.

The target users of the project are the renters looking for a residence in Naga City. Rental properties outside the vicinity are not included. Both online and cash payments are accepted in the system.

This project is expected to complete in two months before the end of the first academic semester as a course requirement.

CONCEPTUAL FUNCTIONAL MODEL

OF THE

HOME-RENT WEB APPLICATION

Technical Objective 1: Create a website that allows users to register an account.

OPERATIONAL SCENARIO:

The user visits the website using a browser. On the front page, the user can see a button called “Login”. When the user clicks this login button, a new page called the “Login Page” is presented. This page contains a form asking for a username or email and password together with a “Login” button. The user types their information in the form and the system will verify their information and if the login is successful, they are transferred to the “Dashboard”, otherwise, they will be redirected back to the “Login” page with an error message. In this dashboard, they are presented with a “Logout” button that logs them out and transfers them back to the front page.

If the user does not have an account, they are presented with a button that takes them to the “Registration” Page. In this page, they provide a username or email and password. When done registering, they are taken to the “Dashboard” page as logged in users. If there is an error in the information they provided, an error message will appear, then they will be redirected back to the “Registration” page.

Technical Objective 2: Create a website that allows registered users to post apartments, condo, house, or a place for rent.

OPERATIONAL SCENARIO:

Only registered users can post a listing. The user can see a button called “Add Listing”. When the user clicks this Add listing

button, this page contains a form asking for the landlord's contact information, property information, and pricing. When finished, the user will click the “Post” button then will be transferred to a page displaying their property for rent.

Technical Objective 3: Create a website that allows registered users to rent apartments, condo, house, or a place.
OPERATIONAL SCENARIO:

After a user has navigated to the catalog list of places for rent and has clicked “Read more” to view details of an available property, they will be presented with details and a form to fill out at the right side of the screen to request a property visit. After filling up the form they will have to submit it by clicking the “request a visit” button. When finished, the user will click the “Pay” button to rent the property, then they will be redirected to payment form where they will have to enter information, when done they will click the “go to pay” button and they will be shown payment options. When these data are finalized by the user, they will submit it by clicking the “pay now” button and then the seller will be notified to confirm back to the user if the rent request is accepted.

Technical Objective 4: Create a website that allows users to search and browse apartments, condo, house, or a place for rent.
OPERATIONAL SCENARIO:

Users entering the homepage can click on the “Browse” button and are brought to a catalog of places for rent. There will be a button called “search” to sort the for a specific characteristic of properties through the keyword they put on the search bar. *Example: “near Ateneo”*. There is also a “sort” button where they will be given the option to sort by “category” and sort by “price” to fit the description of

what they prefer to look for. They can also browse the site by scrolling and view other properties available for rent.

The rental properties come with the status available. It will display all currently offered rental properties as of the specific search locations, as well as a description for each property listing, allowing the user to select the property that best suits his needs.

Technical Objective 5: Create a front-end using usable 3rd party templates.

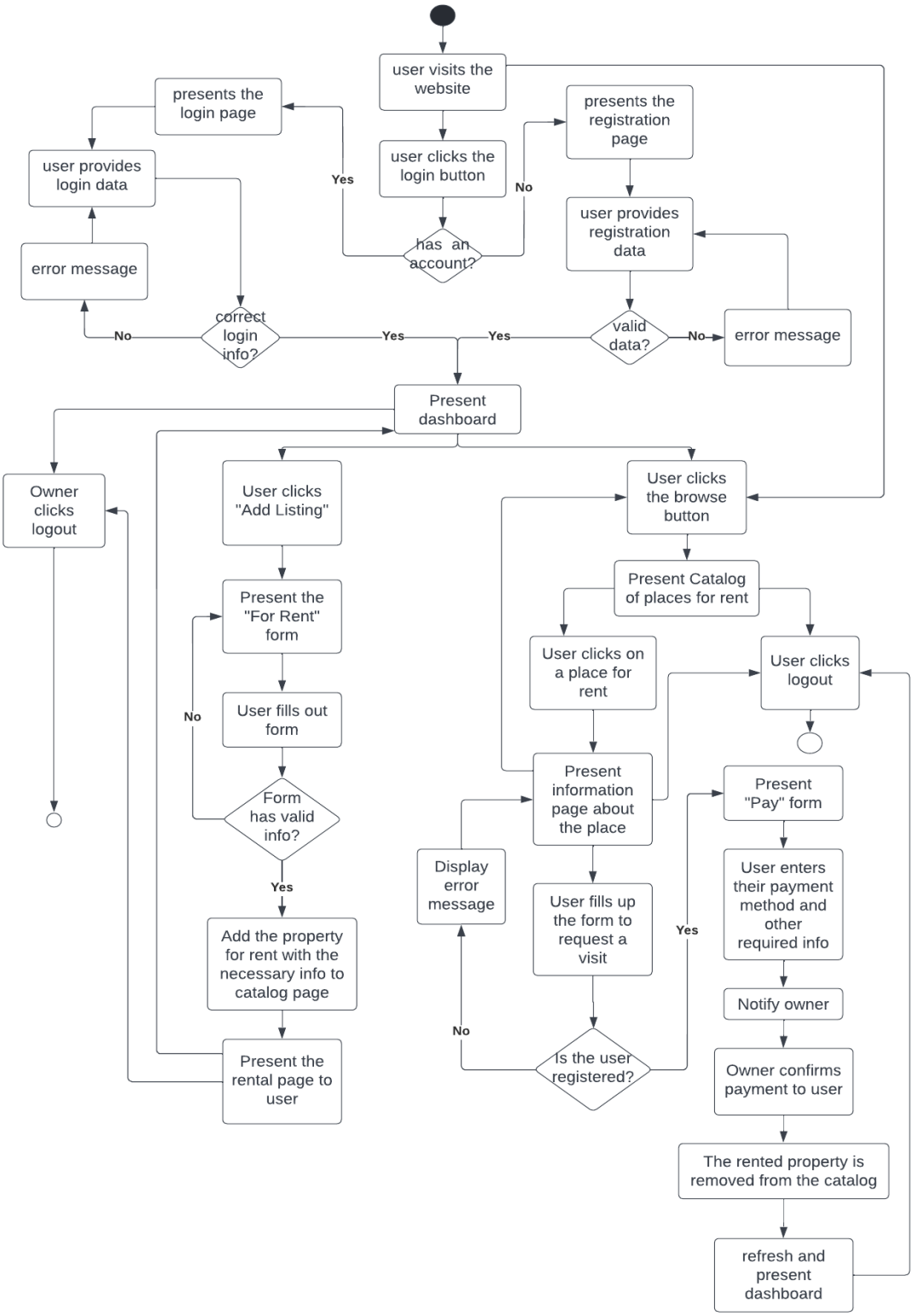
OPERATIONAL SCENARIO:

Find a template that would be appealing and easy to use by the users. Search for usable templates that are free to use, or purchase ones that are sold. Look for the details if it is legal to avoid problems with the book site that will be created.

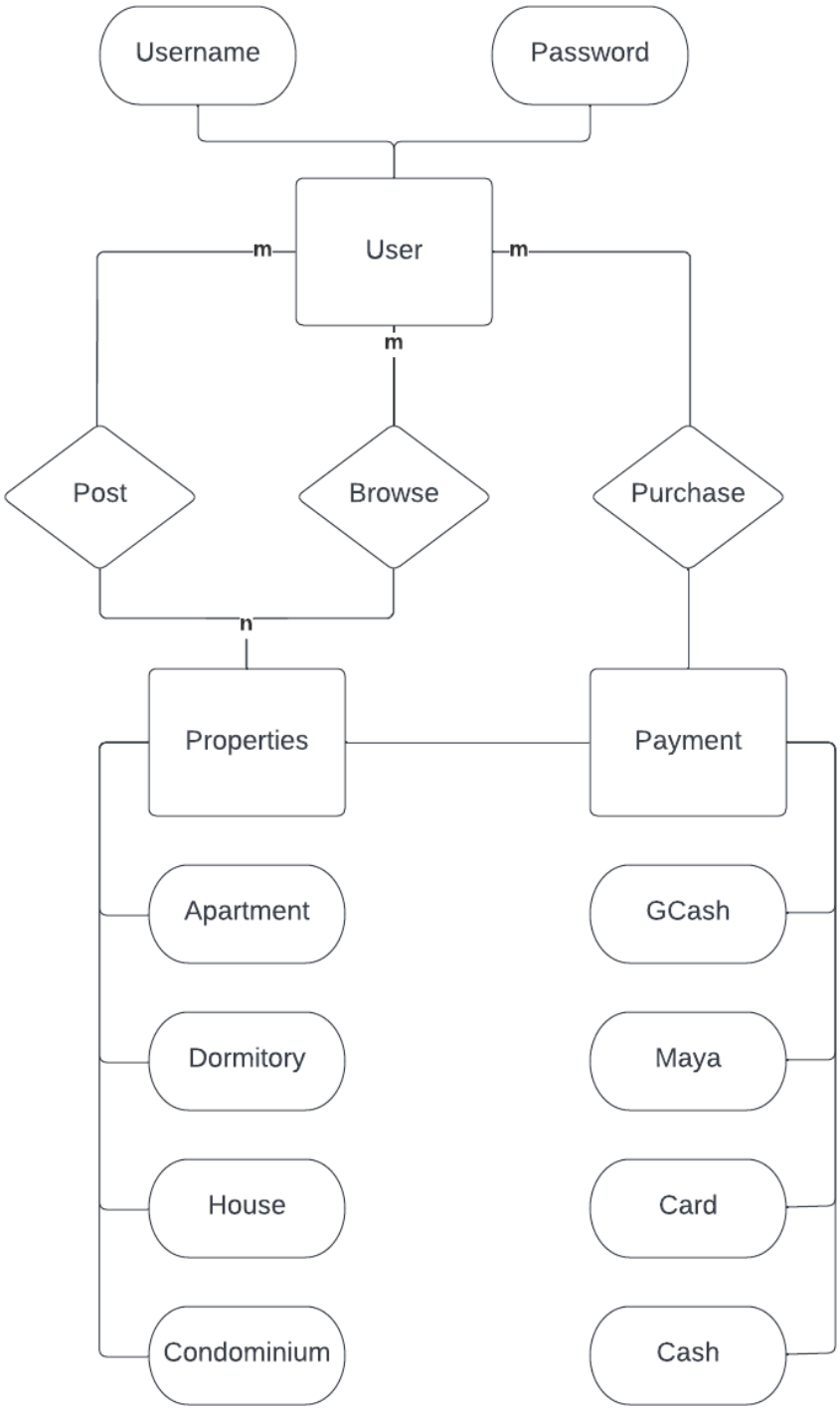
Once the user has entered the front page of the UI, they are immediately familiarized with how to utilize it. Many icons, buttons, or menus have a similar style with popular platforms. Therefore, a user is able to post a property for rent without the use of a guide.

SYSTEMS ACTIVITY DIAGRAM

Activity Diagram



ERD Diagram


Username
Password
User
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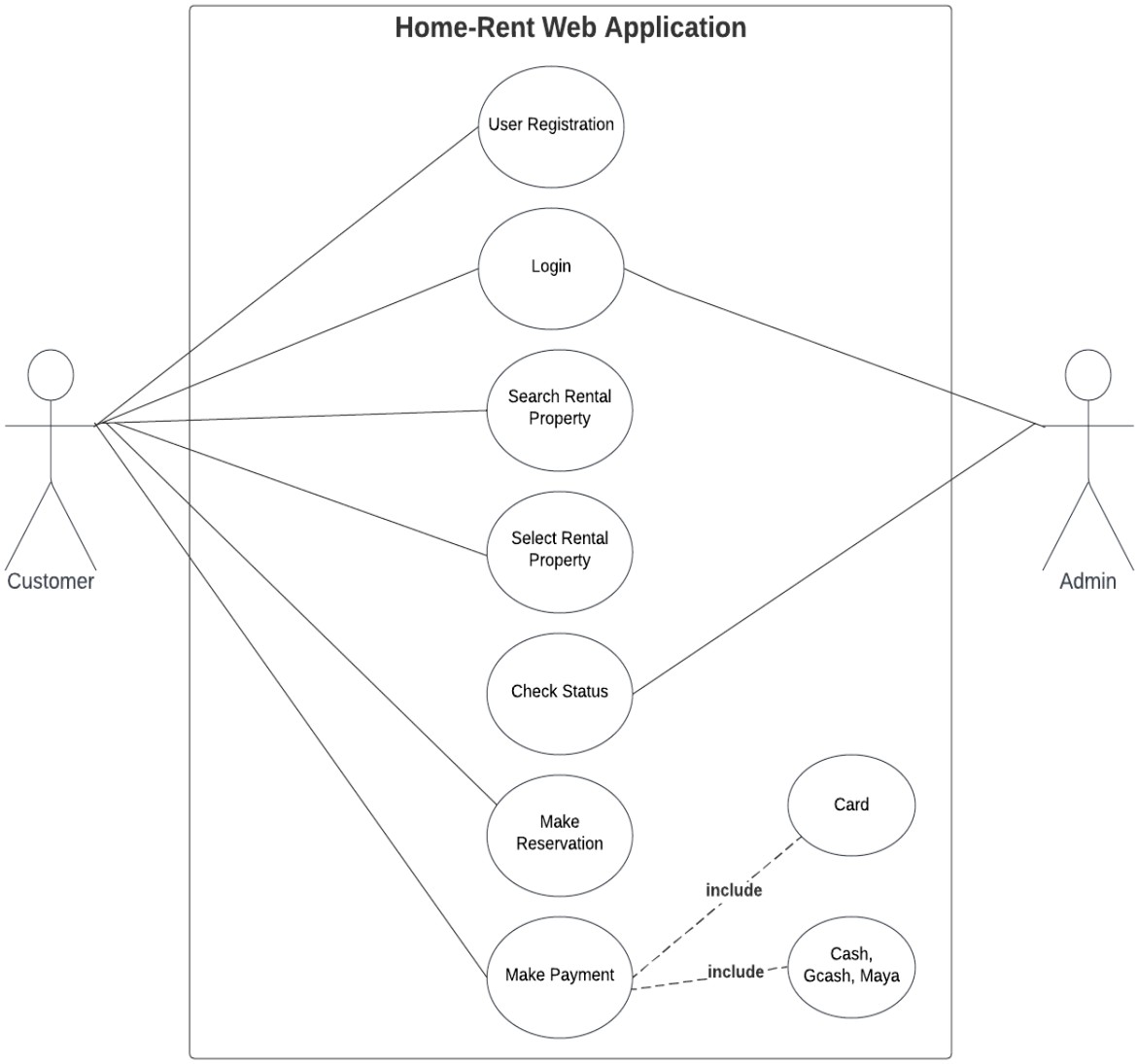
Browse
Purchase
n
Properties
Payment
Apartment
Dormitory
House
Condominium
GCash
Maya
Card
Cash

Use-Case Diagram



PHYSICAL ALLOCATION

Roles

- **Bianca**
  - UI design
  - System Testing
  - Assistance in other areas (back-end, database, etc.)
- **Pauline**
  - UI design
  - Database
  - Assistance in other areas
- **Maneth**
  - Back-end
  - System Testing
  - Assistance in other areas
- **Giselle**
  - Back-end
  - System Testing
  - Assistance in other areas

Tasks

1. **Create UI**
   a. Design a draft for each page
      i. Decide on a theme
      ii. Decide on a style
      iii. Pick out a color scheme
      iv. Draw out a rough sketch
   b. Design each page with HTML, CSS, Bootstrap
      i. Search and use 3rd-party templates
      ii. Create Homepage
      iii. Create Browsing Catalog page
      iv. Create every page for properties-for-rent

v. Create form pages
    1. Design User Registration form
    2. Design a Post-Property-For-Rent form
    3. Design an Online Booking Request-to-Visit Form
    4. Design Payment Form
vi. Design error messages

- Note: This task requires working hand in hand with creating the backend.

2. Create back-end

a. Download Ruby on Rails
b. Connect Rails to MySQL
c. Create functions for user interaction
    i. Create a rent recording module
    ii. Create a post for property sale module
        1. Require users to upload property images
        2. Require users to
    iii. Create browsing functionality
d. Create error messages

- Note: This task requires working hand in hand with creating the UI.

3. Create database

a. Connect Rails to MySQL
b. Connect the database to system
    i. CRUD functionality exists

4. Testing the System

a. Check if system is functioning correctly by acting as a pseudo user

i. Register on the system
ii. Sign in and out
iii. Post a property for rent
iv. Purchase a property

b. Revise if necessary

GANTT CHART

Project Start Date: Sept 23
Project End Date: Dec. 15
*Note: Although the weekends (Saturday and Sunday) have been omitted in the chart, they are included in the number of days for the project.

GANTT CHART

PROJECT TITLE	Home-Rent Web Application	**TEAM NAME**	ITneans
PROJECT MEMBERS	Bianca, Pauline, Mariae, Giselle	DATE	12/15/22

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION (Days)	PCT OF TASK COMPLETE
1	**UI Development**					
1.1	Create and Design a draft	Bianca & Pauline	9/26/22	10/3/22	7	0%
1.2	Create each Page		10/3/22	11/1/22	28	0%
1.2.1	- Homepage		10/3/22	10/9/22	6	0%
1.2.2	- Browsing Catalog Page		10/9/22	10/16/22	7	0%
1.2.3	- Properties-For-Rent Page		10/16/22	10/23/22	7	0%
1.2.4	- User Registration Form		10/24/22	11/1/22	7	0%
1.3	Create Form Pages		11/1/22	11/23/22	22	0%
1.3.1	- User Registration Form		11/1/22	11/6/22	5	0%
1.3.2	- Post-Property-For-Rent Form		11/6/22	11/12/22	6	0%
1.3.3	- Online Booking Request-to-Visit Form		11/12/22	11/17/22	5	0%
1.3.4	- Payment Form		11/17/22	11/23/22	6	0%
1.4	Create Error Messages		11/23/22	12/2/22	9	0%
2	**BackEnd Development**					
2.1	Download Ruby On Rails	Giselle & Mariae	10/3/22	10/6/22	3	0%
2.2	Connect Rails to MySQL		10/3/22	10/8/22	6	0%
2.3	Create User Interaction Functions		10/8/22	11/23/22	46	0%
2.4	Create Error Messages		11/24/22	12/2/22	8	0%
3	**Database Development**					
3.1	Download database software	Pauline	11/23/22	11/25/22	2	0%
3.2	Connect Rails to MySQL		11/23/22	11/28/22	5	0%
3.2.1	- Add CRUD functionality		11/28/22	12/6/22	8	0%
4	**System Testing**					
4.1	Pseudo User Experience	(Whole Team)	12/8/22	12/15/22	7	0%
4.2	Revise and Finalize		12/8/22	12/15/22	7	0%