



TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES



1338 Arlegui St., Quiapo, Manila

## **CribConnect: Mobile-Compliant Web-based Apartment Searching, Listing, and Sharing System**

By

**Carpio, Kristine Shyra A.**

**Dela Cruz, Gabriel D.**

**Diaz, John Mikael R.**

**Dida-agun, Abdul Rahman A.**

**Javier, Beejay B.**

**Villegas, Eugene D.**

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Requirements of Software Design Course

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TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES  
1338 Arlegui St., Quiapo, Manila



## DEPARTMENT OF COMPUTER ENGINEERING

### APPROVAL SHEET

The proposed project entitled "**CribConnect: Mobile-Compliant Web-based Apartment Searching, Listing, and Sharing System**", which was presented on **6th of May 2024** by the proponents:

**Carpio, Kristine Shyra A.**  
**Dela Cruz, Gabriel D.**  
**Diaz, John Mikael R.**  
**Dida-agun, Abdul Rahman A.**  
**Javier, Beejay B.**  
**Villegas, Eugene D.**

is hereby **APPROVED** by the following members of the committee:

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**Mr. Joselito San Juan**  
Head, Panel Member

---

**Engr. Mon Arjay F. Malbog**  
Project Adviser

---

**Mr. Dennis Nava**  
Class Adviser



TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES  
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DEPARTMENT OF COMPUTER ENGINEERING

**ACCEPTANCE SHEET**

The project entitled "**CribConnect: Mobile-Compliant Web-based Apartment Searching, Listing, and Sharing System**", has been prepared and submitted by the proponents:

Abdul Rahman A. Dida-agun  
Beejay B. Javier  
Eugene D. Villegas  
Gabriel D. Dela Cruz  
John Mikael R. Diaz  
Kristine Shyra A. Carpio

for approval to the committee for the Software Design..

After thorough review and evaluation of the proposed project, the committee has accepted the presented proposed design based on the required criteria.

The acceptance is valid to the information being presented. Accepted this **6th of May 2024, 2<sup>nd</sup> semester 2023-2024.**

---

**Mr. Joselito San Juan**  
Head, Panel Member

---

**Engr. Mon Arjay F. Malbog**  
Project Adviser

---

**Mr. Dennis Nava**  
Class Adviser

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## **ABSTRACT**

The process of finding suitable rental accommodations, particularly for students and young professionals, has become increasingly challenging due to factors such as rising costs and varying living conditions. This study explores the complexities of off-campus housing, emphasizing the importance of affordability, safety, and convenience. Through surveys and interviews, insights were gathered from both renters and landlords, highlighting key considerations and concerns. In response, the study proposes the development of a web-based application tailored to streamline the rental search process, prioritizing user validation, reviews, and verified listings. By providing a centralized platform, the system aims to enhance the overall experience for both tenants and landlords, promoting efficiency, resource utilization, and cost-effectiveness. The study's findings underscore the significance of such a solution in addressing the evolving needs of the rental market, particularly in urban areas like Metro Manila.

## I. INTRODUCTION

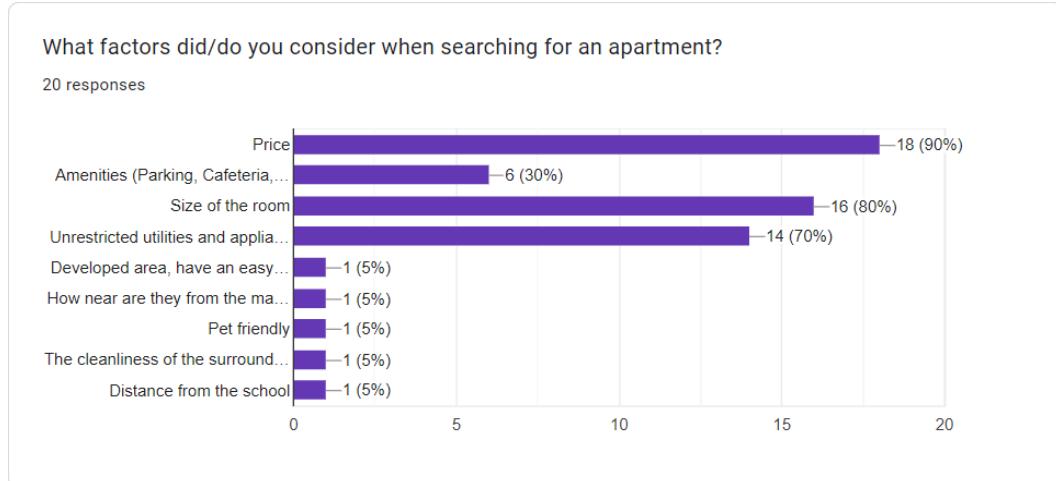
Moving away from the comfort of one's home is never easy, especially when they are going to an unfamiliar place. Apart from preferences, there are more factors to consider with regards to searching for a place to rent. According to Wohletz (2013), the process of renting has changed over the years and finding a place to rent is not as cheap or easy as it used to be. Furthermore, according to the study conducted by educations.com (2021), for international students, the Philippines has one of the most affordable cost of living compared to the likes of New York, Boston, or London. However, that might not be the case for a local student as according to Wise (2023), the top five (5) most expensive cities to live in are Manila, Cebu City, Quezon City, Davao City, and Cagayan de Oro. The total living expenses per month as a student in Manila and Cebu City averages to 20,000PHP and 18,000PHP respectively. The average monthly cost of a student dorm room in Manila, Cebu City, and Quezon City are 18,000PHP, 16,000PHP, and 11,000PHP respectively which indicates that a significant portion of a student's expenses would include housing. To reduce the monthly expenses, consider seeking affordable options when it comes to accommodation like sharing a rented apartment or finding a roommate as splitting utilities and rent can significantly lower the monthly expenses. In addition, off-campus housing options are usually more affordable compared to on-campus accommodations (Little, 2023).

College students are a prime target market for apartment owners and developers. In the past few years, many cities containing a university have experienced the addition of apartments built specifically for students (Imperiale & Vanclay, 2016). With this type of surge in the market, a large portion of students will be able to be accommodated when the apartments available fit their budget. According to Oh & Kim (2021), for college students on a tight budget, house sharing has long been considered an affordable accommodation choice. Recently, house-sharing has become popular among young single-person households, including those in professional and management roles as well as those in the economically disadvantaged sector, as a way to reduce rent and increase social networks. Velasquez-Garcia & Garcia (2016) stated in their paper that since private ownership owns the majority of boarding homes and dorms in the Philippines, living conditions and facility quality are unpredictable and mostly unregulated. Accrediting private dorms and boarding houses is a standard procedure for universities in response to the growing concern over the standard of student living next to campuses. In addition, they are not endorsed by any

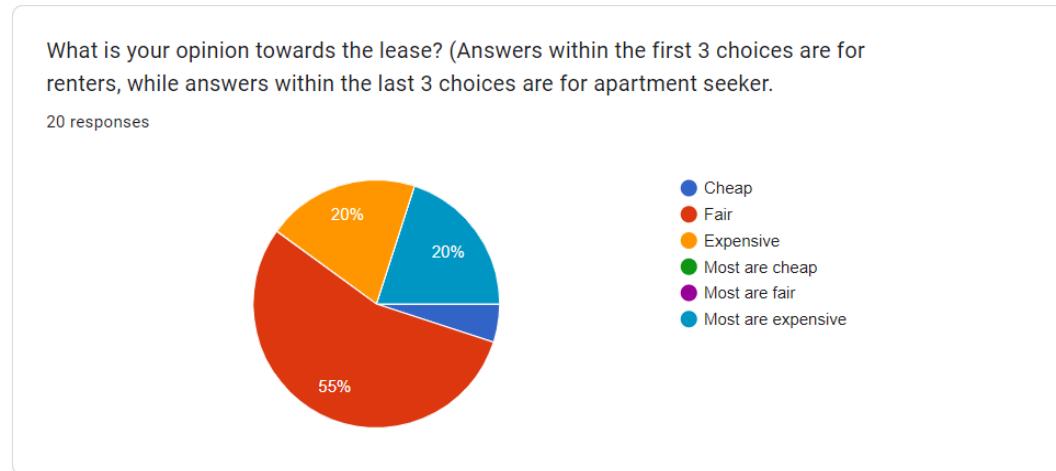
government bodies that oversee housing or higher education, meaning that their certification is narrowly focused and solely serves the purposes and interests of particular colleges. This might pose a problem for the safety of the students. According to an article published by Morris (2014), apartment complexes learned how to take advantage of college students with their advertisements and students who do not know any better often fall into their money trap. He advised the students through his post to put extra effort in researching before deciding where to stay rather than just looking at the price to not suffer the same experience he did. Based on a joint study conducted by Apartments.com and Google (2015), 71% of respondents agree that the internet plays an important role in searching apartments than three years ago as 67% of the respondents found their apartment through the internet, which from their perspective the most effective source in terms of searching for apartments. Searching online for an apartment is the most viable option there is, and the most convenient. While the internet proved to be an important aspect in terms of searching for an apartment, it is not as easy as it seems when factors such as limited budget and location are to be considered.

Students and apartment seekers alike face challenges when it comes to off-campus housing. The problem of poor living circumstances is one of the main issues off-campus housing tenants must deal with. The location and accessibility of off-campus housing options present another difficulty. Another matter of issue is how boarders/tenants are treated. Some students claim that they have experienced unjust treatment by boarding house or landlord owners, which has a detrimental effect on their well-being and sense of security. In addition, there are legitimate worries among students over the hygiene and condition of off-campus housing. Maintaining a healthy living space requires regular maintenance and hygienic practices (Office of Outreach and Relationships, 2024). Furthermore, the survey conducted by the researchers showed that the price is one of the major factors that students and employees consider when choosing a living space. As shown in 'Figure 1.1 Survey Result: Factors to consider', 90% answered price as one of the factors they consider when searching for a living space. As shown in "Figure 1.2 Survey Result: Lease's Price Opinion", 20% of the respondents which are currently renting a place claim that their apartment is rather expensive, and 20% of respondents which are currently seeking to rent a place answered that most of the living spaces that they encounter are expensive. On the other hand, the researcher interviewed an apartment owner near a University Campus named Marian Zaragosa regarding the problems that the apartment has to face. She indicated that as a self-managing owner, she has to be

more careful with accepting tenants because if there is any damage made in the apartments then it will become an additional operational expense.



**Figure 1.1 Survey Result: Factors to consider**



**Figure 1.2 Survey Result: Lease's Price Opinion**

This system aims to help the students and apartment seekers alike by creating a web-based application that can assist them in their problem of searching for a living space that fits their preferences. Specifically, the proponents plan to create a web-based application that focuses on profiling property searchers using validation and reviews, enabling increased security and reliability for both the tenants and the landowners. In addition, create a seamless property listing and inquiry request to both property searcher and owner which is limited to verified users. On the searchers' end, the team plans to provide a

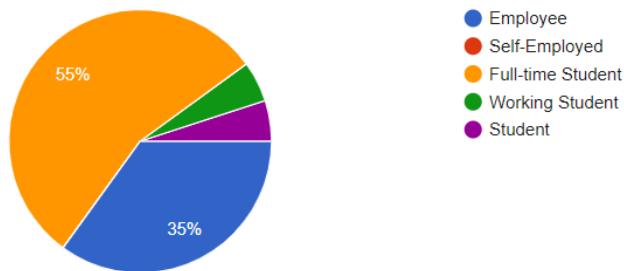
simple layout of the listed properties that prioritizes only the necessary information based on the factors that the respondents of the survey primarily consider.

This study considered both aspects with regards to renting, where the team took a survey for the searcher and an interview for the landholder. The survey took both male and female respondents ranging from 18 to 30 years of age that are currently living in a rented property within Metro Manila. The team managed to accumulate 20 respondents in total. This survey intends to assess the experience and opinion of the respondents in searching for an apartment to rent. On the other hand, the team interviewed an apartment owner nearby Polytechnic University of the Philippines - Parañaque, this interview intends to resolve a problem that the interviewee raised with regards to accommodating apartment searchers online. The information that is gathered will be used by the team to create a web-based listing application that can enhance the long-term lodging experience of both tenants and landlords through a rating and review system, while providing the searcher a seamless experience in terms of searching a property to rent. Furthermore, the system is limited to rooms, apartments, and dorms which are for long term use, therefore any short term listings such as hotels are subject to be removed.

This study holds significant advantages for both landlords and tenants alike. It offers convenience by providing a centralized platform for listing, searching, and checking about available apartments, accessible anytime and anywhere. By encouraging apartment sharing and roommate matching, the system promotes efficient resource utilization, reducing housing expenses and minimizing environmental impact by decreasing the demand for new construction. This study is also significant to the students that will be doing a system related to the study. To further prove the value of this study, the result of the survey that the proponents conducted are shown below. The proponents accumulated a total of 20 responses; 35% are employees and the rest are students as shown in 'Figure 1.3 Survey Result: Respondent's Employment Status'. In 'Figure 1.7 Survey Result: Reason for renting', it shows that to relocate near school is the main reason that they look for a living space. Among them, 60% already found a living space while the majority of the remaining percentage have been looking for more than a month now as shown in 'Figure 1.4 Survey Result: How long have you been searching'. Out of the 60% that already found a place to stay, the majority of them took a few weeks to a month to find a suitable place to rent as shown in 'Figure 1.5 Survey Result: How long did it take'. And as for the mean they use to look for an apartment, 50% of the respondents answered that they base it on the recommendation of their families and/or friends, and 35% use social media apps to search as shown in 'Figure 1.6 Survey Result: How did you find your apartment' below.

What is your employment status?

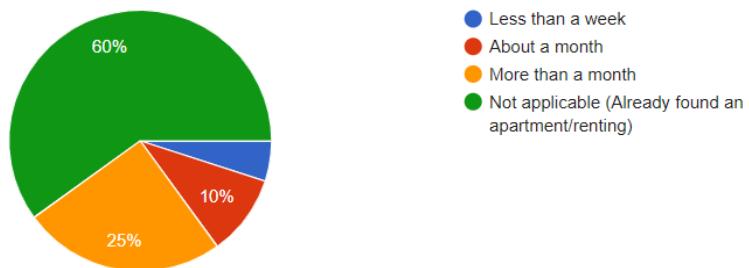
20 responses



**Figure 1.3 Survey Result: Respondent's Employment Status**

If you are currently looking for apartment, how long have you been searching?

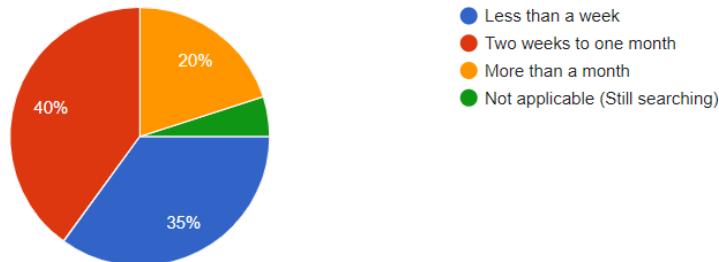
20 responses



**Figure 1.4 Survey Result: How long have you been searching**

If you already found an apartment or currently renting, how long did it took searching for it?

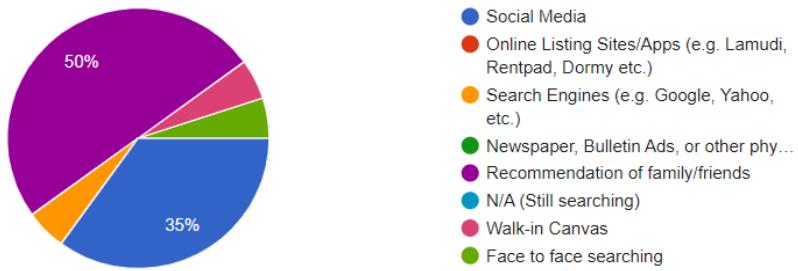
20 responses



**Figure 1.5 Survey Result: How long did it take**

How did you find your apartment?

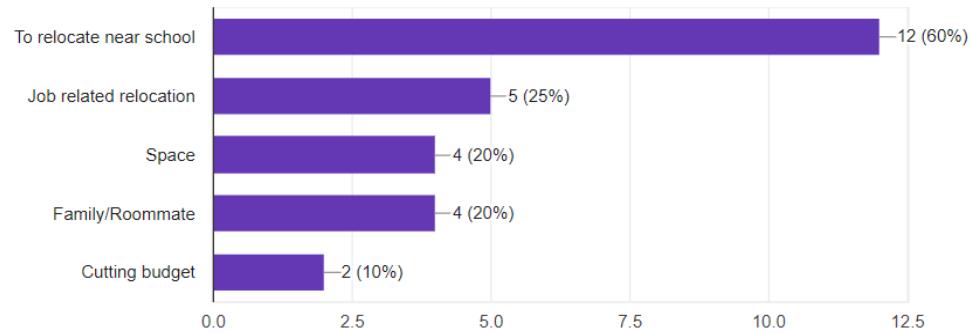
20 responses



**Figure 1.6 Survey Result: How did you find your apartment**

What is the reason for renting an apartment?

20 responses



**Figure 1.7 Survey Result: Reason for renting**

## II. SOFTWARE NEEDS VALIDATION

As a metropolitan area is expanding and developing, the demand for more reasonably priced housing is increasing (Abad et al., 2016). According to McKee (2023), renting an apartment in the Philippines can be a great choice, but only if you make the effort to choose the ideal residence for your needs and budget. To avoid any unpleasant surprises, don't forget to do extensive research, evaluate costs, and thoroughly read the lease agreement.

Over time, renting an apartment online has been easier and easier. A database of apartments available for rent is provided by various real estate firms and agencies on their websites. You can also reserve your apartment online, read other people's reviews, and view images of the properties (nyhabitat.com, 2013).

There are several existing real estate websites in the Philippines made specifically to cater buying, selling, and renting properties. Students or apartment searchers can use these websites to look for living space that they can rent with their preference in mind, however, these web apps do not offer the option to look for roommates to share the cost with. Examples are listed below.

### Lamudi Philippines

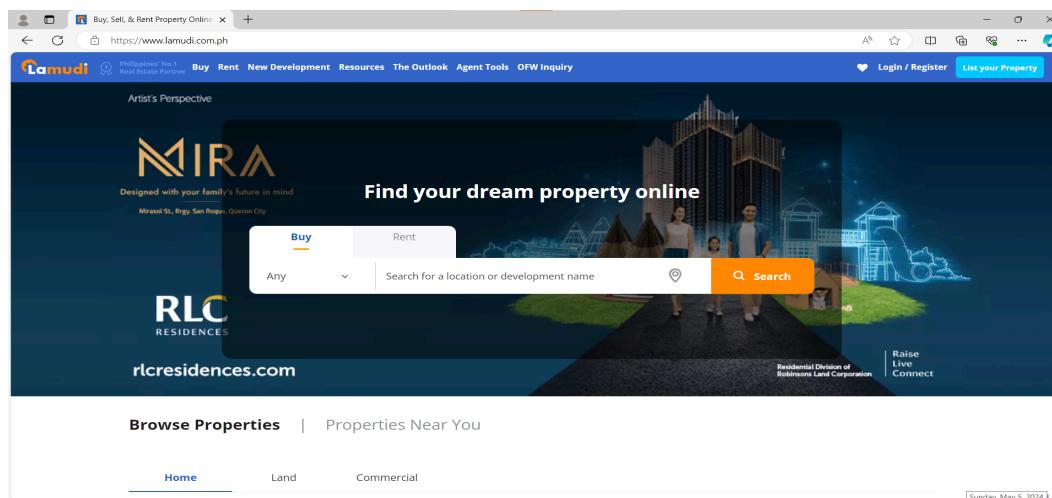
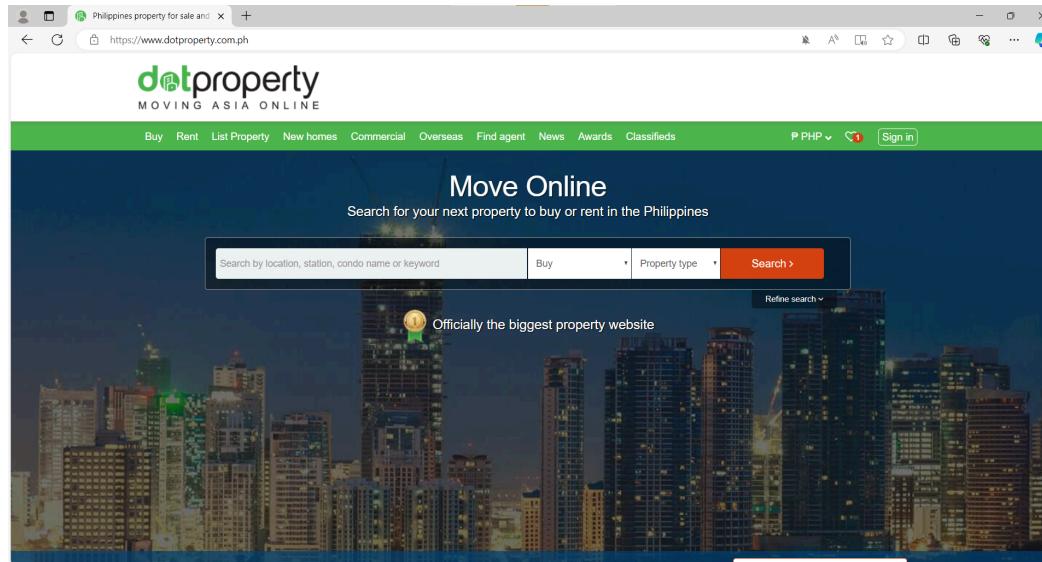


Figure 2.1 Lamudi homepage

Lamudi is a global real estate platform that operates in several countries, including the Philippines. It offers listings for residential and commercial properties, as well as land for sale or rent.

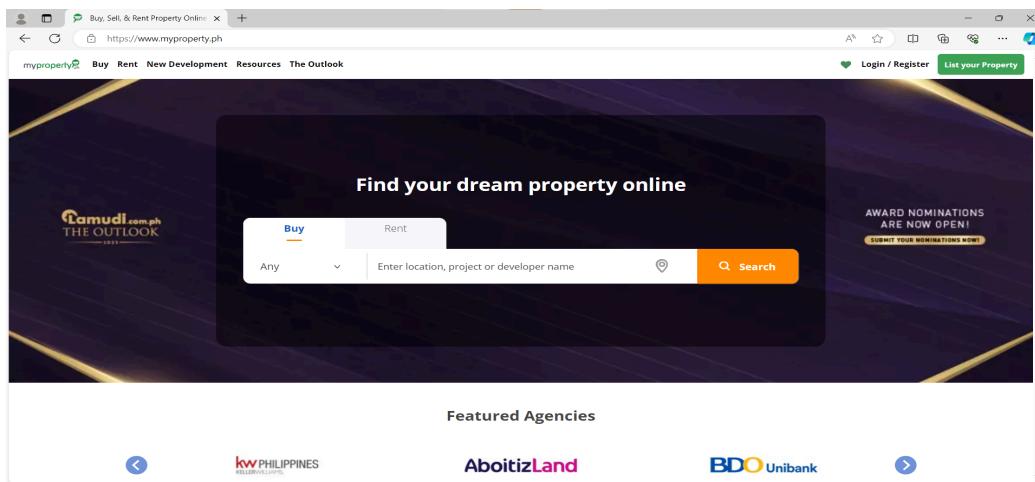
## Dot Property Philippines



**Figure 2.2 Dot Property homepage**

Dot Property is a real estate marketplace that offers listings for residential, commercial, and industrial properties in the Philippines. It also provides news and insights about the real estate market in the country.

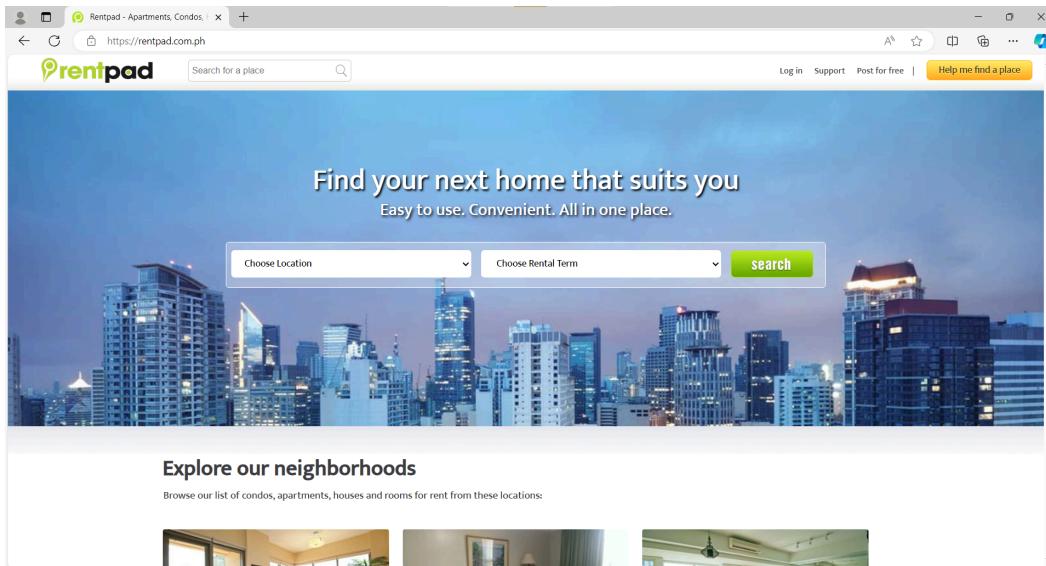
## MyProperty Philippines



**Figure 2.3 MyProperty homepage**

MyProperty is a real estate platform that features listings for residential and commercial properties, as well as land for sale or rent. It also offers tools and resources for property buyers and sellers.

### Rentpad Philippines



**Figure 2.4 Rentpad homepage**

Rentpad is a real estate platform in the Philippines that focuses on rental properties. It allows users to search for apartments, condos, houses, and other types of properties that are available for rent.

### Carousell Philippines

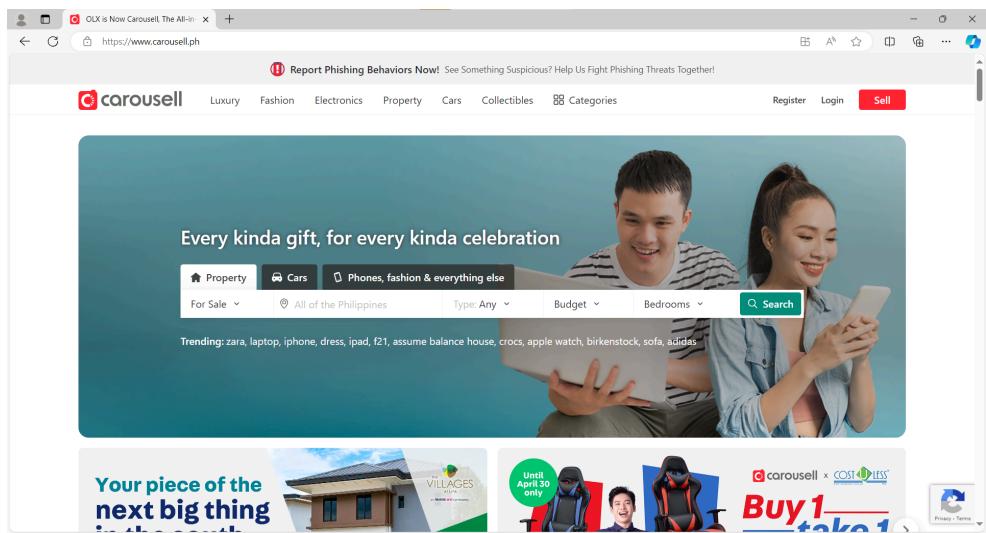


Figure 2.5 Carousell homepage

Carousell.com, formerly known as OLX, is a platform where users can buy, sell, and rent various items, including housing and property. It allows individuals and real estate agents to list properties for sale or rent, including apartments, houses, condos, and commercial spaces. Users can browse listings, filter search results based on their preferences, and contact sellers or landlords directly through the platform. Carousell.com provides a convenient and accessible way for people to find housing and property listings in their area.

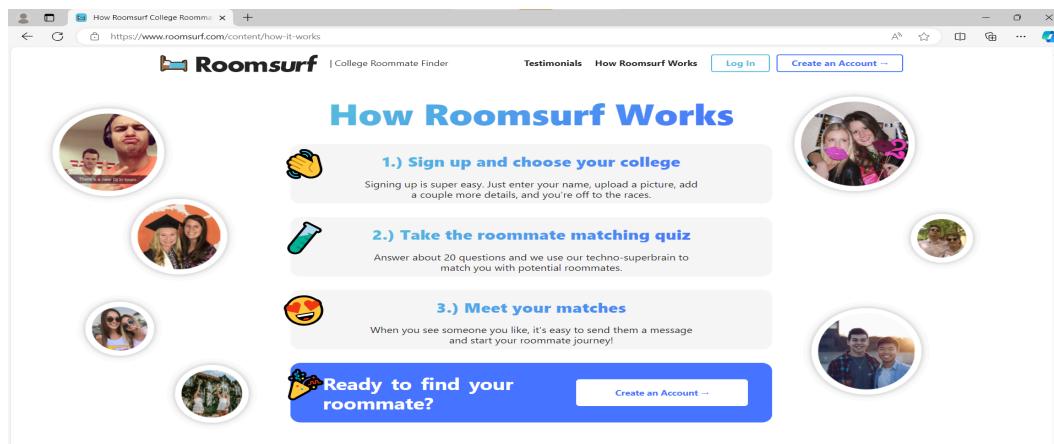
The current trend involves housing expansion and rapid enrollment, which have an unpleasant impact on students' well-being. Prior to the term "student housing" being recognized as an area of knowledge in housing research, studies regarding concerns pertaining to college and university students' choices for housing were mostly overlooked. Now co-housing, also known as collective housing, has grown in popularity because it improves quality of life by fostering social, economic, and environmental sustainability (Alcaraz et al., 2020). Ballesteros et al. (2022) conducted a study regarding the measurement of housing affordability in the Philippines, and according to the authors, by comparison with the Residual Income Method, the 30 percent of income standard overestimates home affordability among those with low incomes and underestimates among the upper income levels. That is to say, housing priced at 30% of income is out of reach for the poor and low-income households, but housing priced at 30% or more is within the reach of the rich and middle-class. What this shows is that renting a decent apartment can be costly,

especially for low-income households. Most students are left with no choice but to share a room with other students to afford the place.

According to OpenAI (2024), students can find roommates for room-sharing through various methods. These methods include: (a) social media platforms such as Facebook, Twitter, or Instagram which often have groups or pages dedicated to housing at specific universities or cities in which students can post about their search for roommates; (b) online roommate finders such as Roomsurf, Roommates.com, and Roomgo.net designed specifically for finding roommates, however, these services are only available in the US; and lastly (c) word of mouth where students can ask friends, classmates, or acquaintances if they know anyone looking for a roommate or if they can recommend someone.

Websites, like Roomsurf, were designed like social media in which people can communicate with each other, however, these websites do not have an option for homeowners or landowners to lease their living spaces.

## Roomsurf

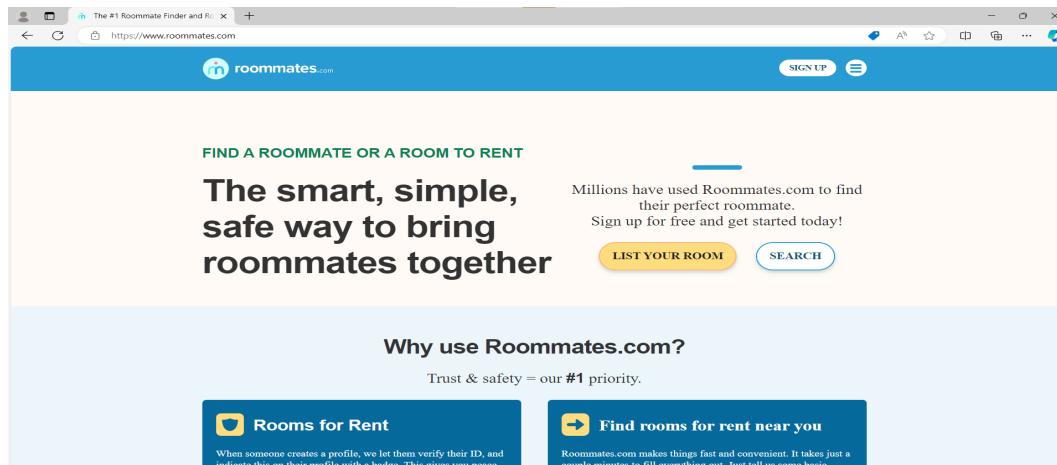


**Figure 2.6 How Roomsurf Works | Roomsurf.com**

Roomsrf.com is a website that helps college students find compatible roommates. It uses a matching algorithm to connect students who are attending the same university or college and are looking for roommates. Users create a profile and answer questions about their habits, preferences, and lifestyle, and then Roomsurf suggests potential roommates based on compatibility. It's a tool designed to make the roommate search process easier and more efficient for students.

The websites that are closest to what CribConnect is aspiring to be are: Roomgo.net, formerly known as Easyroommate, Roommates.com, and Dormy.ph. These websites allow users to list their living space in hopes of finding a roommate. Among the three, Dormy.ph is the only website that is available in the Philippines.

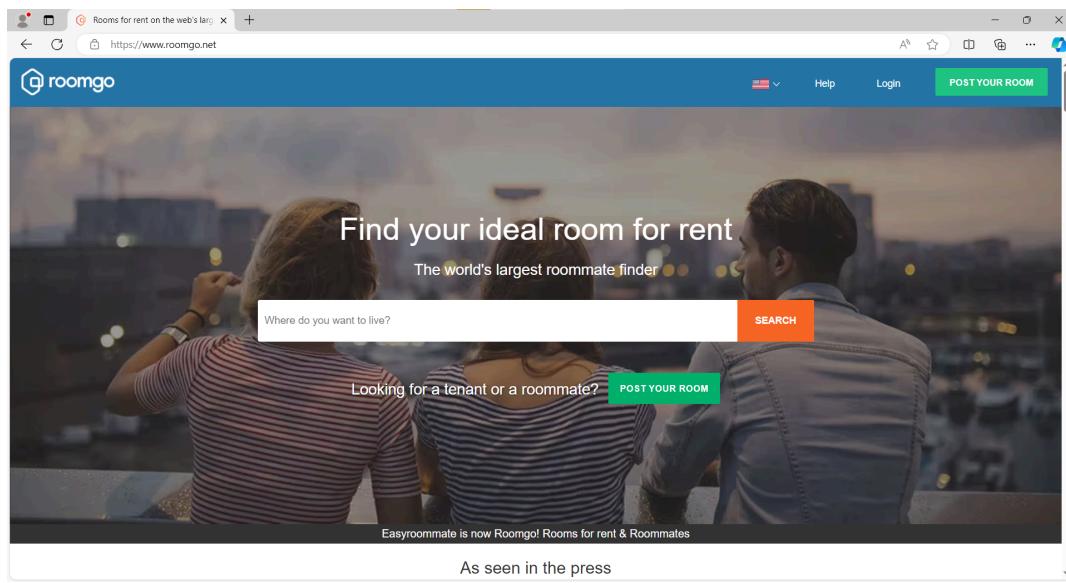
## Roommates.com



*Figure 2.7 Roommates.com homepage*

Roommates.com is a website that helps people find roommates or rooms for rent. It allows users to create profiles, search for compatible roommates based on various criteria such as location, rent budget, lifestyle preferences, and communicate with potential matches. The website aims to make the process of finding a roommate or a place to live easier and more efficient.

## Roomgo.net



**Figure 2.8 Roomgo.net homepage**

Roomgo.net is a website that helps people find roommates and rental accommodations. It's essentially a platform that connects individuals looking to rent out rooms with those seeking to rent them. Users can create profiles, search for available rooms or roommates based on location, budget, and preferences, and communicate with potential matches through the website. Roomgo.net typically provides features such as messaging, filtering options, and profile verification to facilitate safe and efficient roommate and rental searches.

## Dormy.ph

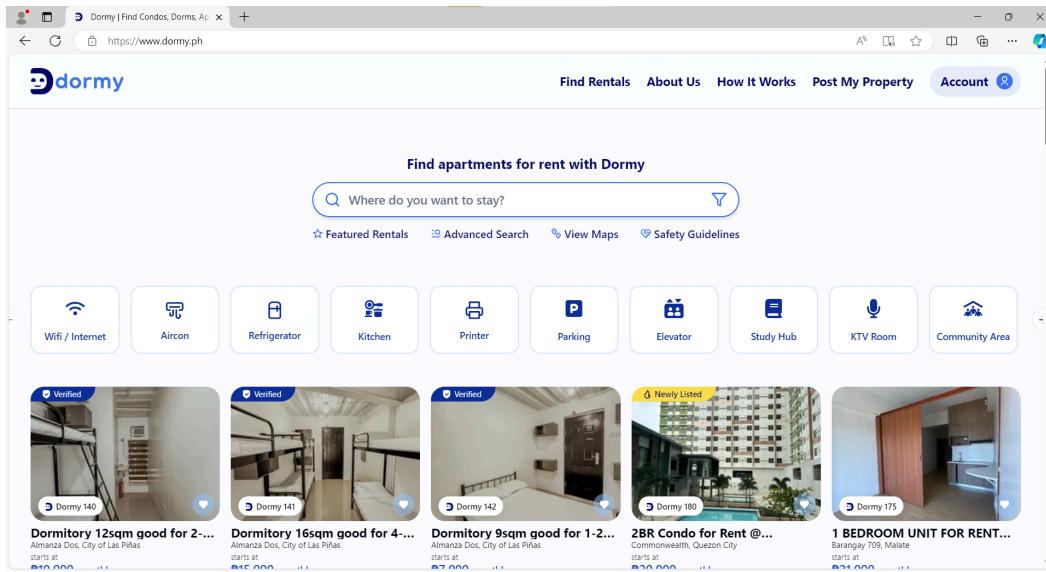


Figure 2.9 Dormy.ph homepage

Dormy.ph is a marketplace for residential stays, where renters can easily find residential spaces for rent in one platform. It also offers scheduling for a property viewing, and roommate matching.

The main difference between CribConnect and the existing solutions, particularly Dormy.ph, is that CribConnect includes a rating system. With this system in place, landowners can choose whether to accept a user's request to rent their property or not which will give landowners a chance to filter out those with bad reputations. The user's rating is based on their previous landlords. This will also benefit other users as they will not have to deal with a roommate with bad behavior.

### **III. SOFTWARE REQUIREMENT SPECIFICATIONS (SRS)**

#### **A. External Interface Requirements**

##### **1. User Interface**

The user must be able to understand the overall aesthetics, the functionality must be easily accessible, and the design must be straightforward but effective. The UI needs to offer helpful shortcuts that are significantly connected to longer processes. The system's GUI has to be simple to use and intuitive. In order to optimize the hardware's available resources and enhance user-friendliness, a basic design approach is required.

##### **2. Hardware Interfaces**

The user should at least use the required specifications listed on Table 3.1 and Table 3.2 below since the developers aim to make the system functional for these specifications at the very least.

**Table 3.1 Computer Specification**

<b>Hardware</b>	<b>Specification</b>
Processor	At least Intel Pentium 4 or AMD Athlon XP for Windows/Linux; at least Intel Core Duo for Mac
Memory	At least 4GB
Network Connectivity	Ethernet, WiFi

**Table 3.2 Smartphone Specification**

<b>Hardware</b>	<b>Specification</b>
Processor	At least Snapdragon S4 Play MSM8225 for Android; at least Apple A4 for iPhone

Memory	At least 2GB
Network Connectivity	WiFi, Mobile Data

### 3. Software Interfaces

- Operating System - a software program that acts as an intermediary between computer hardware and the applications running on it. It manages computer hardware resources and provides common services for computer programs. The OS typically handles tasks such as memory management, process scheduling, file management, and device management. These are the operating systems that we recommend: Windows 7, 8, 8.1, Windows 10, macOS, Linux distro, Android, iOS.
- Browser - a software application used to access information on the World Wide Web. It retrieves and displays web pages, allowing users to navigate the internet and interact with various online content. These are the browsers that we recommend: Chromium-based, Gecko-based, Goanna-based, Trident-based, Webkit-based, Blink-based, KHTML-based, EdgeHTML-based, MSHTML-based, and Presto-based browser.
- PythonAnywhere - a cloud-based Python development and hosting platform that allows users to write, run, and host Python applications entirely in the cloud. It provides an integrated development environment (IDE) where you can write and debug your Python code directly in your web browser. PythonAnywhere also offers web hosting capabilities, allowing users to deploy their Python web applications and websites easily.
- Illustrator - a vector graphics editor developed and marketed by Adobe Inc. It is primarily used to create logos, icons, drawings, typography, and complex illustrations. It provides a wide range of tools for drawing, painting, and manipulating objects, allowing users to create scalable, high-quality artwork.

- Figma - a cloud-based design tool used for creating user interfaces, websites, and app prototypes. It is known for its collaborative features, which allow multiple users to work on the same design in real-time.
- HTML - the standard markup language used to create and design documents on the World Wide Web. It provides the structure for web pages by using a system of tags and attributes to define elements within a document, such as headings, paragraphs, links, images, and more.
- CSS - a style sheet language used to describe the presentation of a document written in HTML or XML (including XML dialects). It describes how elements should be rendered on screen, on paper, in speech, or on other media.
- Javascript - a high-level, dynamic, and interpreted programming language primarily used for building interactive web pages and web applications. It is often referred to as the "language of the web" because it is widely used to enhance web pages with dynamic and interactive features.
- Python - a high-level, interpreted programming language known for its simplicity and readability. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming.
- Django - a high-level web framework written in Python that encourages rapid development and clean, pragmatic design. It follows the model-view-controller (MVC) architectural pattern. Django's primary goal is to ease the creation of complex, database-driven websites by emphasizing reusability and "pluggability" of components.
- SQL - a domain-specific language used in programming and designed for managing data held in a relational database management system (RDBMS) or for stream processing in a relational data stream management system (RDSMS). It is particularly useful in handling structured data, where there are relations between different entities/variables of the data.

- SQLite - a lightweight, serverless, self-contained, high-reliability, full-featured, and public-domain SQL database engine. It's often used in mobile apps, IoT devices, and desktop software where a full-scale client-server database system like MySQL or PostgreSQL might be overly complex or unnecessary.

#### **4. Communication Interfaces**

The table below shows the communication interfaces that the system will be requiring in order to function properly

**Table 3.3 Communication Interfaces of the System**

HTTPS	The system will specifically use HTTPS to communicate with the web server. It is the foundation of data communication on the World Wide Web. It is an application-layer protocol that defines the format for messages sent between web browsers and web servers.
WebSocket	It is a protocol that provides full-duplex communication channels over a single TCP connection, commonly used for real-time web applications.
Ethernet	This is a widely used standard for wired networking. It allows devices to communicate over a local area network (LAN) using a protocol such as TCP/IP.
Wi-Fi	Wireless communication technology that allows devices to connect to a network using radio waves. It is commonly used for internet access and local network connections.

### **B. Non-Functional Requirements**

#### **1. Performance Requirement**

The interface should be user-friendly for property seekers and landlords, ensuring smooth navigation. It must scale effectively with increased users and listings without sacrificing performance. Additionally, it should be mobile-responsive for smartphone and tablet users. Lastly, the feedback system should enable users to rate properties, landlords, and tenants.

#### **2. Safety Requirement**

As part of the safety and security of the owners and searchers, the system will require the users to undergo a user verification process before they can access the full functionality of the application to prevent malicious behaviors from bad actors.

### **3. Security Requirement**

Under the Data Privacy Act of the Philippines, the project must obtain user consent before disclosing any personal information. The system only uses data for its intended purpose and complies with Republic Act No. 10173, safeguarding sensitive details like names and emails. This act protects all forms of information and applies to individuals and organizations processing personal data. All data collected from respondents is kept confidential.

### **4. Software Quality Attributes**

- Compatibility**

This system, being a web-based application, should be able to run on any operating system, be it on a desktop, laptop, or any smartphone so long as they have access to the internet.

- Acceptability**

The system must be acceptable to the types of users for which it is designed.

- Simplicity**

The proponents designed the system in a way that the users will be able to use the application with ease. The developers made the user interface user-friendly and less complicated as possible.

- Efficiency**

The system was designed in a way that will not consume too much resources from the user's device.

## **IV. SOFTWARE DESIGN EVALUATION**

### **A. Abstract**

This project is a listing site that permits its users to inquire to rental properties of landholders.

These listings are viewable to guest users with images and details of the apartment while leaving the landholder's contact information hidden, once a user is logged in into an account, the user landholder's contact information will become visible and the user will now be able to send requests. SQLite is the choice for this application's database and uses a web framework called Django for its development. The whole software consists of multiple languages with 53.2% HTML, 27.9% Python, 18.8% CSS and a few JS for UI/UX purposes. The project aims to make a visually appealing website that is not lacking with its functionalities, providing an easy navigation module for users. Moreover, a key function of the software called Cribshare should allow apartment seekers to share a certain apartment they want with others. This functionality could only be accessed once an account has been verified. Lastly, the rating and review system will only become relevant once the system is used recurrently, this could potentially lessen the user's perception of the software in general but the functionalities offered shall be enough to address most of the problems they're facing with regards to apartment searching.

### **B. Introduction**

In creating a well designed software, the developers must consider different factors that affect the whole functionality of the system. Using a framework such as Django could minimize a lot of issues that can potentially arise during the development phase of a project. Additionally, the database to be used is also a key consideration that might impair the system's functionality. With this in mind, this project is meant to provide apartment seekers and landlords with a software that is essentially oriented towards the long term lodging experience through a bilateral rating and review system in addition to rent sharing.

As lodging becomes more expensive overtime it becomes quite difficult to adjust expenses accordingly, especially for students. Thus, most students that are far from their school compromise by commuting regardless of the time it may consume. Splitting the rent with others is one of the solutions most apartment seekers opted into, but finding a trustworthy roommate is quite difficult specifically through online inquiry. Apart from that, landholders' major problem in accepting tenants online is the credibility of the

tenants who inquire as they are essentially putting their trust in them for maintaining their properties. Furthermore, there is no such thing as a comprehensive criteria of properties for rent that apartment seekers can rely upon, leading to them wasting time in personally checking apartments for rents that do not fit their preferences. In any case, these problems haven't yet been addressed by most of the apartment listing sites. Furthermore, with the daily traffic reaching 3.63 million vehicles in Metro Manila (Statista, 2024), traveling to seek an apartment could be physically tasking to many. Clearly, there is a need for a software that can provide a solution that can precede the traditional apartment searching method in addition to the problems previously discussed.

On the other hand, there are a number of listing sites that address the problem of seeking an apartment, but there are aspects that can be further improved. Additionally, platforms such as Facebook marketplace which is quite popular for its convenience, does not have any criterion for its apartment listings that could potentially help apartment seekers to identify or validate the apartment they're interested in. The rating is limited to the products and does not include apartment listings. There is also a lack of options with regards to understanding what are the necessary changes towards the apartment listed or its tenant, hence a review seems to be an appropriate solution towards that.

Therefore, the team concludes that a listing software with bilateral rating and review system would be beneficial towards both the apartment seeker and landlords, providing them the opportunity to change how they manage their apartments or how they maintain the apartment they rent. A verification of users is also an essential part of the software for security measures, especially for the crib share feature that lets the user request to split the rent with others. Thus the software must include the following features: Apartment listing, Apartment requesting, Verification request, Cribsharing, and Rating and Reviews. The software is expected to have a minimal range of traffic with these functionalities, therefore a database that is fast and efficient in terms of queries such as SQLite are preferable. Lastly, to be efficient with the codes a framework is essential, since it can provide a wide range of options with regards to queries, variables, and layers towards the development process. Django provides different layers to its users such as models, templates, and views that could be used to simply organize the whole software that boosts the efficiency of its developers.

### C. Review of Related Literature

The system is expected to receive small to medium traffic since the main functionality of the software is the inquiry requests which ideally won't be used often, this is one of the reasons for the choice of database management to use. SQLite is the database used for this project, as an embedded database that is commonly used for mobile applications and web applications with low to medium level of traffic queries. SQLite offers exactly what the system requires, a sql-based database that offers a unique feature which is that the entire database is contained within a single file. For this reason, most developers had historically seen it as the simplest database for simple use cases, and within the recent years, SQLite has received a great amount of attention from its developers to make it the simplest database with advanced use cases. Hence for most developers, SQLite is the best balance of trade-offs (K. Dodds, 2024).

Web frameworks are proven effective in streamlining the web development process by providing the developers an access to its pre-written code libraries and modules that improves the working efficiency of developers, therefore the project used a back-end framework called Django. Back-end frameworks handle the server side of web applications. It handles HTTP requests, manages the system's databases, and improves the overall security of the web application. Benefits of using web frameworks includes: Easier development process, Eases debugging and application maintenance, Reduces code length, Improves database proficiency, and Reinforces security (Sencha, 2023). The system uses the user authentication provided by Django, it uses the PBKDF2 algorithm with a SHA256 hash which is a password stretching mechanism that is recommended by NIST. Nevertheless, on the function side, consumer reviews help in determining the issues of certain products, shedding light on new use cases, and provide ideas for future innovation. Online shoppers are expecting a change in businesses as a response to their reviews., both positive (25%) and negative (38%), in creating a better product (G. Cadorette, 2023). Apartments can be viewed as products that require constant improvement in order to stay relevant, but these reviews are not limited to properties as feedback is used towards employees as well, this method is used to determine the effectiveness of their staff. A similar approach can be done towards tenants, this is to ensure that the tenants do not induce any damage or ignore the basic maintenance needed of the apartment they rent, this is also to reflect with themselves what are the things to improve in order to create a maintainable relationship with their landlords.

In contradiction, the database used SQLite provides the essential functions for the software's minimal operation but the long term operability could be in question. In terms of a better choice in database MySQL seems to be a better option for the database of the software and with this regards the database used can be changed once the software obtains a larger market. Furthermore, using the authentication that a framework provides could be further improved by implementing additional security measures towards the software. Lastly, the bilateral rating and review system doesn't have any certified criteria that can objectify each input leading to a subjective factor which makes it hard to validate.

## D. Methodology

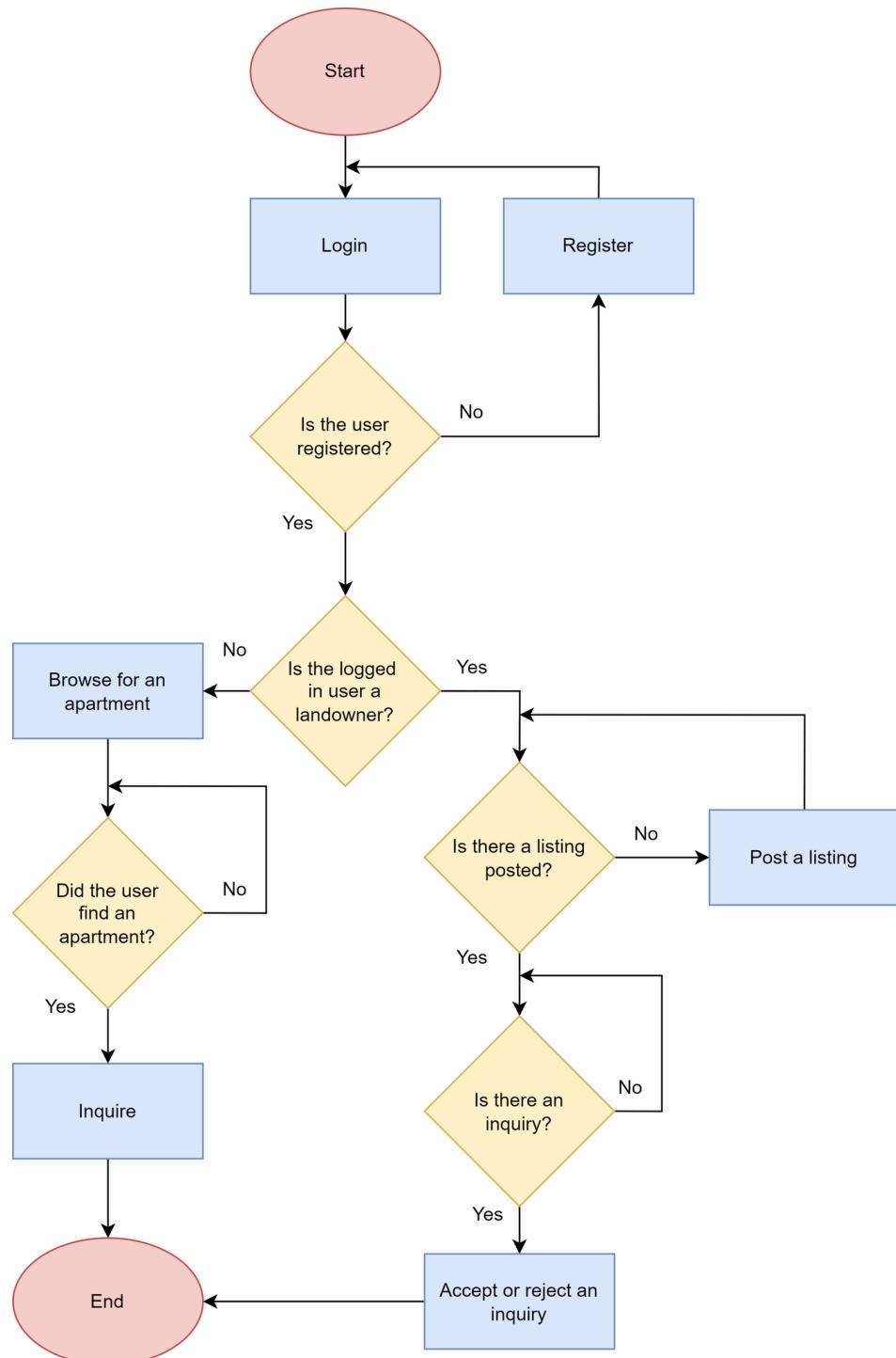


Figure 4.1 Flowchart of the General Process of the System

## **Register**

Registering on our system is the first process. Both landowners and tenants can register on our system to access the features and functions of it. They must have to provide information or documents in order to proceed.

## **Login**

At this stage of the process, either landowners or tenants must log in using a registered account. Users must enter their email address and the associated password into the system. Following that, the system will check the user account database to determine if the email and password combination already exists. The system will display the user's homepage if it is located in the database entries.

## **Homepage**

This is the section of the system where the user can see all of the system's features and functions. Users will have access to the homepage property listings and the property ratings.

## **Property Listing**

This is the section of the system, users can see the key feature of this system by seeing all of the photographic amenities of the property, including the property rating, tenant ratings and the landlord ratings on the tenants.

## **Chat**

Both landlords and tenants can start a conversation with each other in regards of the property concerns.

## **E. Conclusion and Recommendation**

Various challenges developed throughout the creation of the system. However, all project requirements were met within the research scope and constraints, specifically focusing on maximizing user engagement for both tenants and landowners. A key feature implemented is a reputation rating system. Landowners can leverage this system to filter potential tenants with negative ratings, minimizing the risk of bad experiences. Conversely, tenants can view past ratings left by previous landlords on the tenants, allowing them to avoid problematic living situations. This two-sided rating system builds trust and creates a more secure platform for both parties.

In terms of building this system it is a combination of freely available algorithms and development techniques gleaned from online tutorials and our knowledge of Database Management Systems (DBMS). While this approach proved functional for the initial prototype, further research could explore the integration of more sophisticated algorithms for improved rating accuracy and user matching.

By implementing these features, the platform can transition beyond simply connecting tenants and landowners. It can become a comprehensive resource for renters, providing them with the necessary tools to make informed decisions and fostering a sense of community within the properties it manages. This holistic approach will undoubtedly enhance user satisfaction and contribute to the platform's long-term success.

Furthermore, this system can be enhanced by boosting user engagements in both landowners and tenants thus offering virtual tours of different room types and common areas could be a great way to showcase the landlords offered properties and amenities whilst the user could have more clearer picture on the unit that they think suitable for their comfortability stays and needs; it is also best to highlight nearby landmarks, attractions and showcasing upcoming events and activities can further highlight the vibrant community within the scope of the place that the landowners property is built.

## V. SOFTWARE DESIGN DESCRIPTION (SDD)

### A. System Architecture

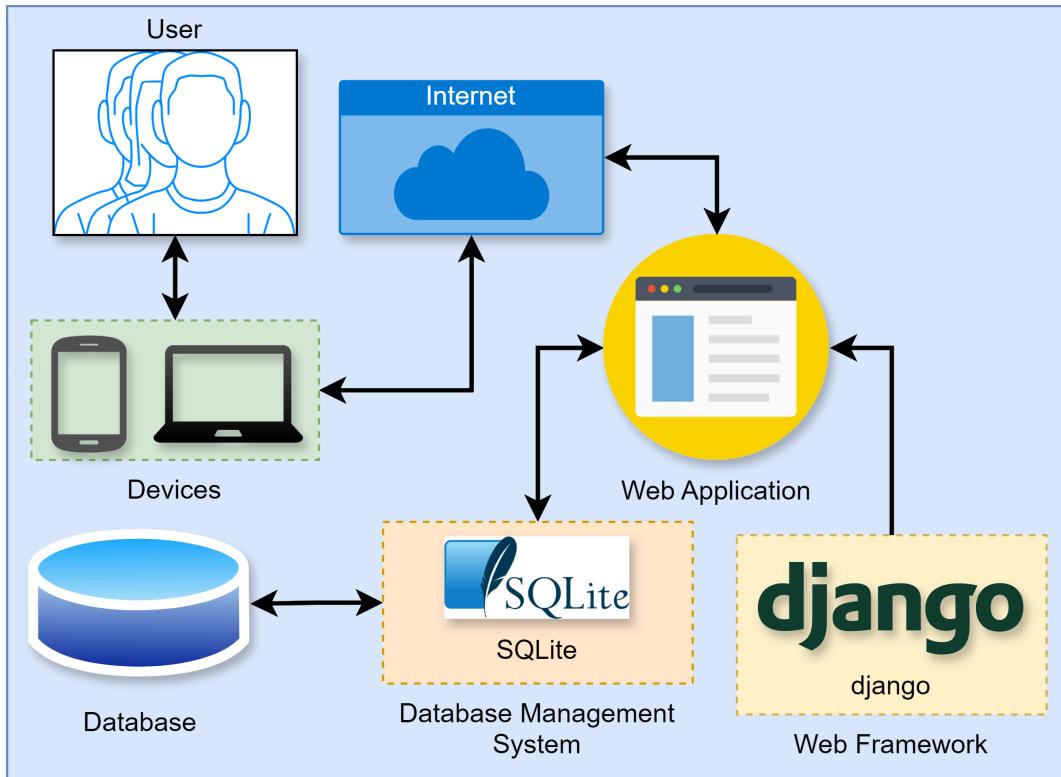


Figure 5.1 CribConnect System Architecture

### B. Constraints

Table 5.1 System Constraint

Design Constraints	Design Criteria
Security	<ul style="list-style-type: none"><li>The system shall provide security, enough to prevent bad actors from performing any actions that can do harm or breach the privacy of the users</li></ul>
Functionality	<ul style="list-style-type: none"><li>The system shall work as the developers intended and shall be user-friendly to be easily understood by the users.</li></ul>
Maintainability	<ul style="list-style-type: none"><li>The system shall easily be fixed and restored to a working state should an error occur.</li></ul>

### C. Functional View

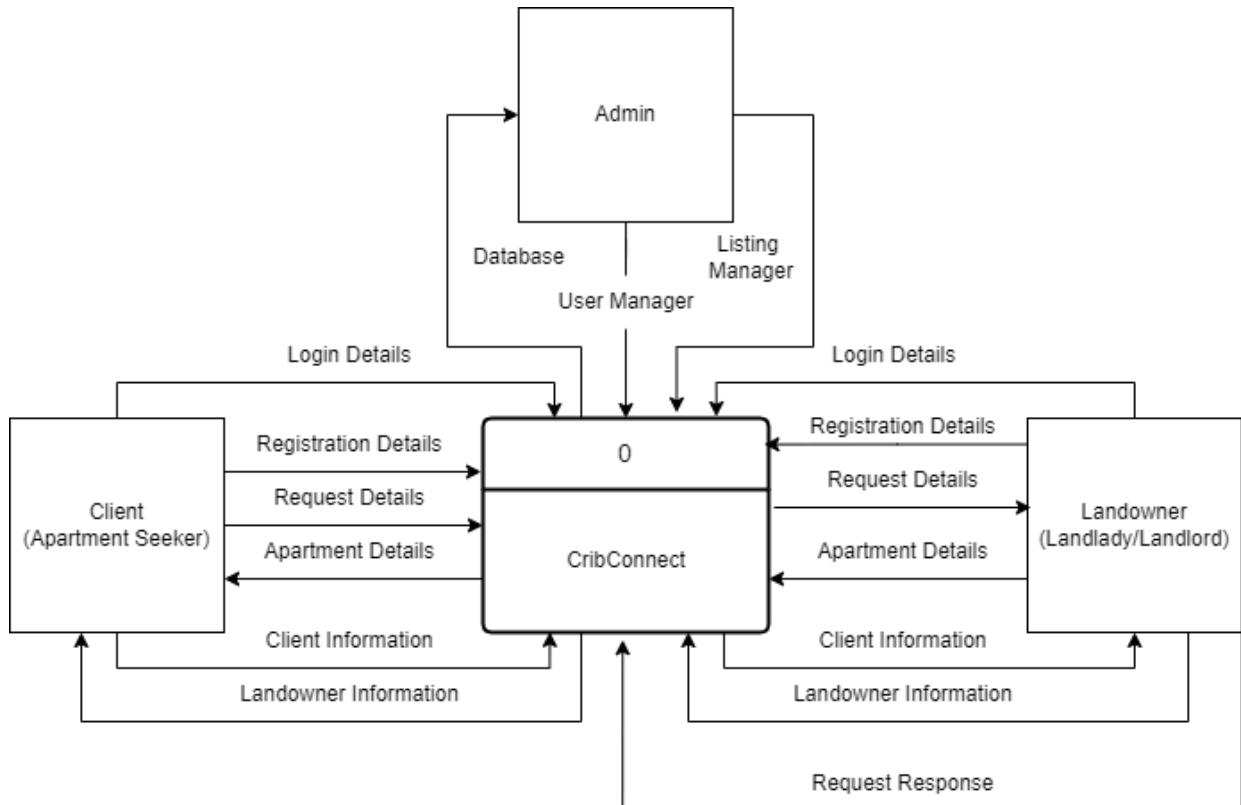


**Figure 5.2 Apartment Inquiring System**

All users shall be able to login using their account's username and password which the system will verify, a login error will pop up if the login is unsuccessful. The system shall also provide the users (excluding admin) a rating for both apartment and tenants which will be updated by the system. The inquiring process includes showing the user information to the landowner. The

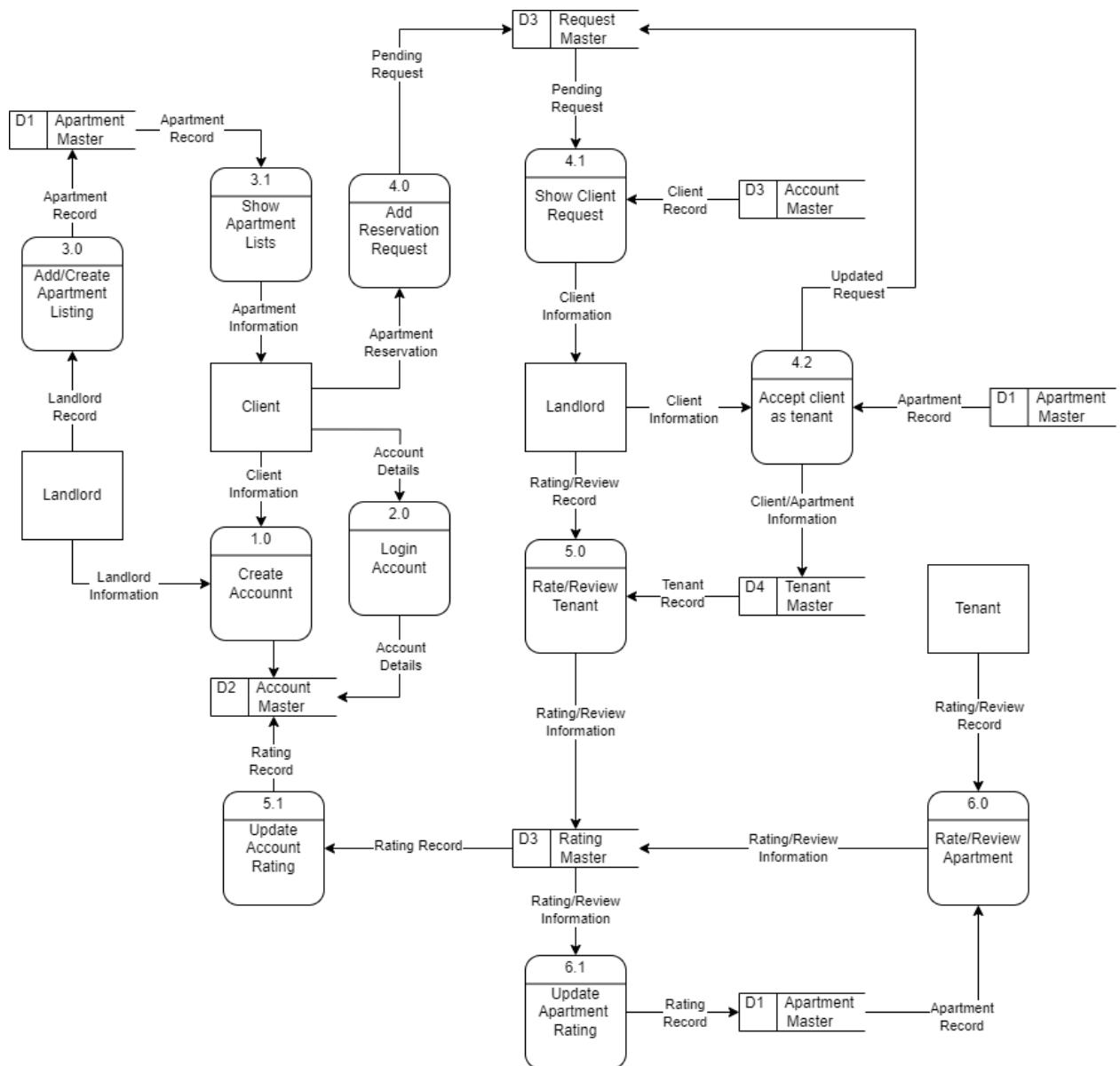
landowners can accept the inquiry request which the system will handle by promoting the account as tenant as well as the apartment information.

#### D. Data Flow Diagram



**Figure 5.3 Data Flow Diagram Level 0**

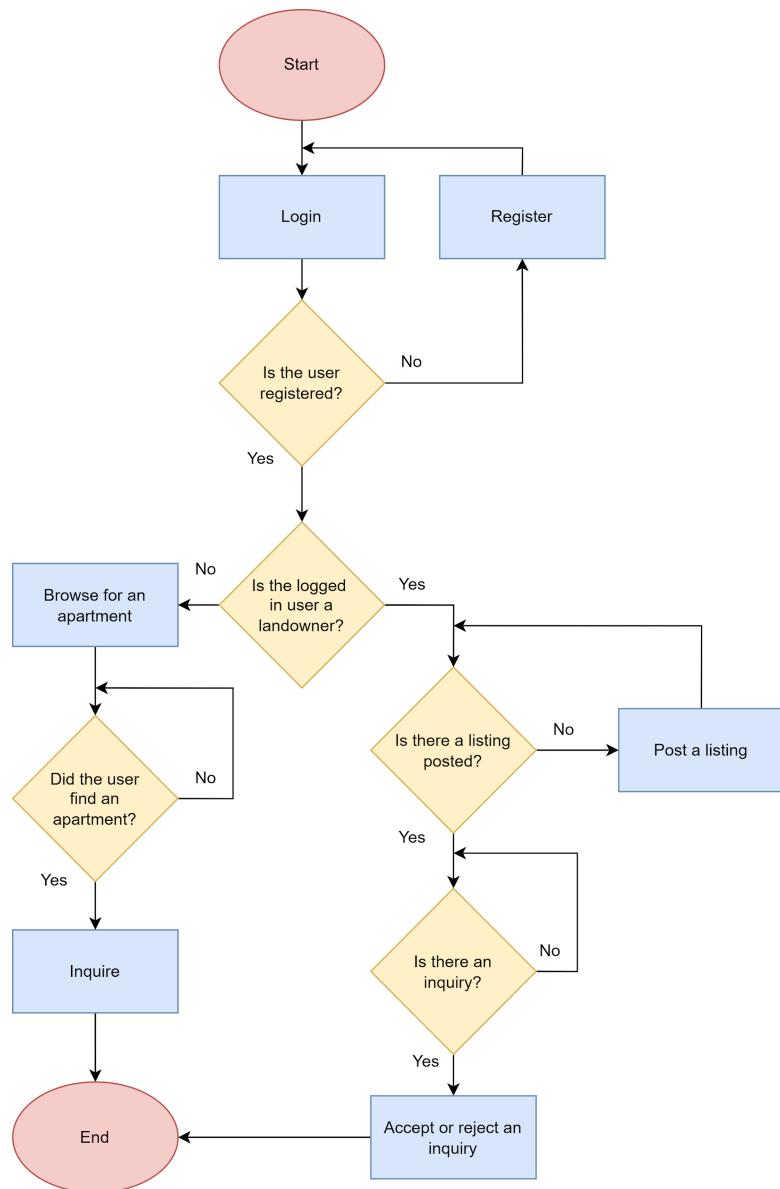
The diagram shown in Figure 5.3 provides the basic functionality of the system, the Admin will be provided with the whole database of the system for the managerial tasks. Both Landowner and Client can login and register an account, Landowners can create an apartment listing while the Client can view the apartment listed with the Landowners information, the Client can send a request towards the Landowner, the request contains the Client information which the Landowner can view before responding into.



**Figure 5.4 Data Flow Diagram Level 1**

The system contains 6 main processes. Process 1 and 2 consist of the basic functions such as account registration and login. Process 3 is designated for Landlords to list their property and to show it to possible Clients. The reservation is within Process 4, which has 3 sub-processes involved, 1. Client adding a request, 2. Showing the request to the Landlord, and 3 handling the response of the Landlord. Lastly, process 5 and 6 are for rating and reviewing, which is a two way rating, process 5 is for rating and reviewing a tenant, while process 6 is for rating and reviewing an apartment.

## E. System Flow Charts



**Figure 5.5 System Flowchart**

## F. Entity Relationship Diagram

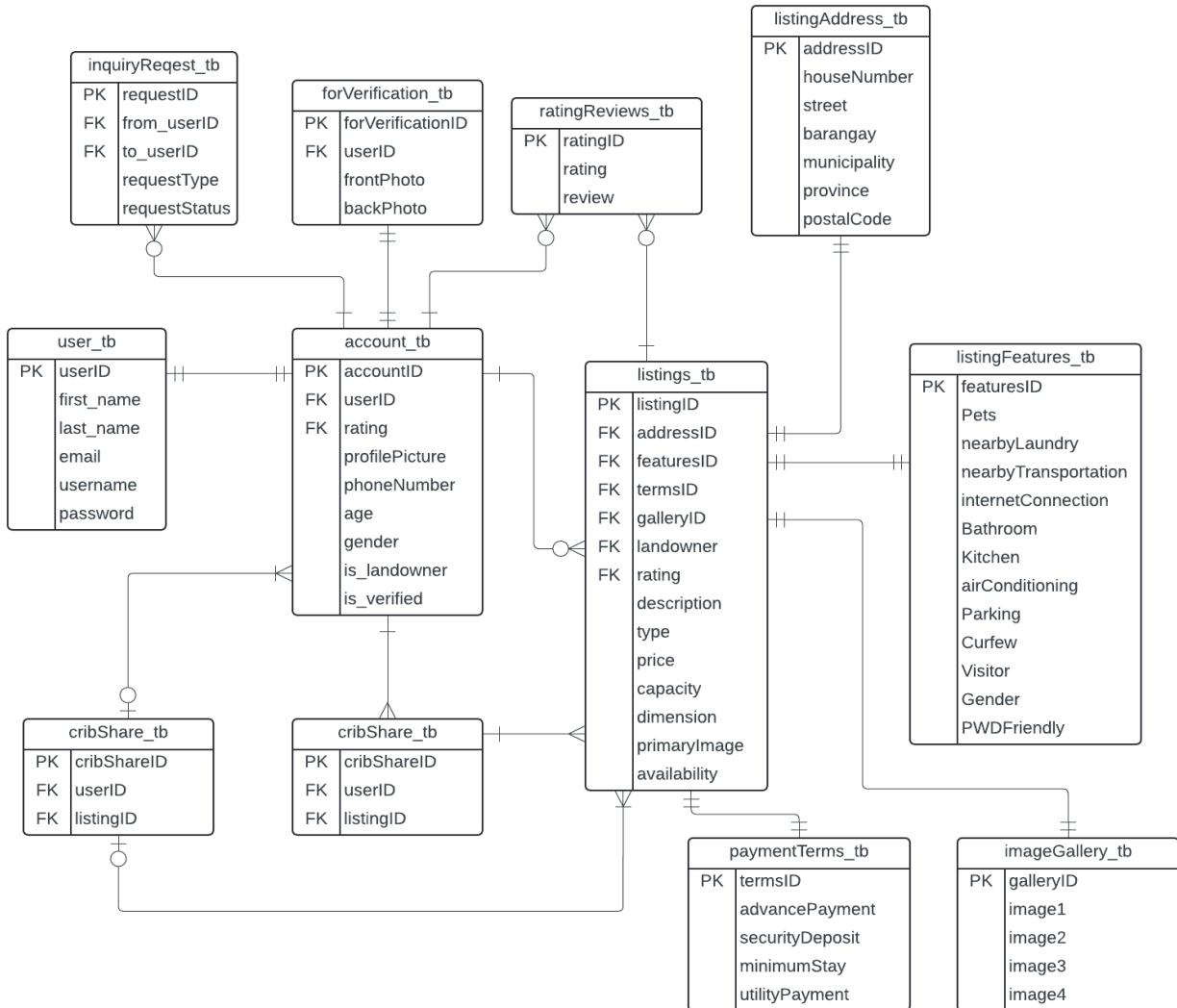


Figure 5.6 Entity-Relationship Diagram

## G. Data Dictionary

user_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
firstName	varchar	64	No		First Name of the user
lastName	varchar	64	No		Last Name of the user
lastName	varchar	64	No		Last Name of the user
username	varchar	64	No		The username for login
password	varchar	64	No		The password for login
emailAddress	varchar	64	No		Email address of the user

**Figure 5.7 user\_tb Data Dictionary**

ratingReviews_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
ratingID	int	8	No	PK	The ID of the rating and reviews
rating	int	1	No		1-5 star rating towards the user/apartment
review	varchar	255	Yes		Optional review towards the user/apartment

**Figure 5.8 ratingReviews\_tb Data Dictionary**

account_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
accountID	int	8	No	PK	account ID of the user
userID	int	8	No	FK	User details for authentication
rating	varchar	64	No	FK	The account of account for logging in
phoneNumber	int	16	No		Phone Number of the user
age	int	3	No		Age of the user
gender	varchar	6	No		Gender of the user
is_verified	boolean	2	No		Verification Status of the user
is_landowner	boolean	2	No		Verification Status of the user
profilePicture	file	-	Yes		The profile picture of the user

**Figure 5.9 account\_tb Data Dictionary**

listingAddress_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
addressID	int	8	No	PK	ID of the address
houseNumber	varchar	16	No		The house number of the listing
street	varchar	16	No		The street of the listing
barangay	varchar	16	No		The barangay of the listing
municipality	varchar	16	No		The municipality of the listing
province	varchar	16	No		The province of the listing
postalCode	int	8	No		The postal code of the listing

**Figure 5.10 listingAddress\_tb Data Dictionary**

listingFeatures_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
featuresID	int	16	No	PK	ID of the features of a listing
pets	boolean	2	No		If pets are allowed
nearbyLaundry	boolean	2	No		If listing has nearby laundry shops
nearbyTransit	boolean	2	No		If listing is near public transportation
wifi	boolean	2	No		If listing has internet connection
bathroom	boolean	8	No		If bathroom is private, communal, or none
kitchen	boolean	8	No		If kitchen is private, communal, or none
airConditioning	boolean	2	No		If listing has airconditioning
parking	boolean	2	No		If listing has nearby parking space
curfew	boolean	2	No		If listing has a curfew
visitor	boolean	2	No		If visitors are allowed
maleOnly	boolean	2	No		If limited to male occupants
femaleOnly	boolean	2	No		If limited to female occupants
accessibility	boolean	2	No		If listing is accessible to PWD

**Figure 5.11 listingFeatures\_tb Data Dictionary**

paymentTerms_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
termsID	int	8	No	PK	The ID of the payment term
advancePayment	int	16	Yes		The amount of the advance payment
securityDeposit	int	16	Yes		The payment amount for the deposit
minimumStay	int	16	Yes		The number of minimum stay in years
utilityPayment	int	16	Yes		The payment amount for the utility

**Figure 5.12 paymentTerms\_tb Data Dictionary**

imageGallery_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
galleryID	int	8	No	PK	The ID of the image gallery for the listing
image1	file	-	No		The image of the property
image2	file	-	No		The image of the property
image3	file	-	No		The image of the property
image4	file	-	No		The image of the property

**Figure 5.13 imageGallery\_tb Data Dictionary**

listing_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
listingID	int	8	No	PK	The ID of the listing
addressID	int	8	No	FK	ID of the address
featuresID	int	16	No	FK	ID of the features of a listing
termsID	int	8	No	FK	The ID of the payment term
rating	int	1	Yes	FK	The ID of the ratingReviews
landowner	int	8	No	FK	The accountID of the owner
description	varchar	255	Yes		Description of the listing
type	varchar	16	No		Type of living space of the listing
price	int	16	No		The price per month of the listing
capacity	int	3	No		The number of occupants allowed in the listing
dimension	varchar	16	No		The size of the living space of the listing
primaryImage	varchar	255	No		The directory of the pictures of the listing
is_available	boolean	1	No		Is the listing available or not

**Figure 5.14 listing\_tb Data Dictionary**

inquiryRequest_tb					
Column Name	Data Type	Field Size	Nullable	Key	Description
requestID	int	8	No	PK	ID of the request
from(userID)	int	8	No	FK	UserID from the sender of the request
to(userID)	int	8	No	FK	UserID of the requester
requestType	varchar	16	No		The type of the request
requestStatus	boolean	1	No		The status of the request

**Figure 5.15 inquiryRequest\_tb Data Dictionary**

## **VI. SOFTWARE TESTING AND EVALUATION**

### **A. Test Approach**

User or customer testing is a crucial phase in the testing procedure, involving users or customers providing feedback on system performance. This could be formal, where a system from an external supplier is rigorously tested, or informal, with users exploring a new software to assess its suitability. Even after comprehensive system and release testing, user testing remains vital as it uncovers how the system operates in the user's environment, impacting reliability, performance, usability, and robustness.

### **B. Test Plan**

The test will be performed in such a way that users can utilize the system for the tenants to view listings, inquire that fits their preference for the living set-up, and get a listing. While for the landlords, they will be able to create their listing for the tenants to view and accommodate, approve or disapprove an inquiry request from the tenant and lastly to rate their tenants so that the other tenants can see the other tenants behavior and performance during the stay in the rented property.

### **C. Testing Requirements**

**Table 6.1 System Requirements**

Requirements ID	Name	Description
SR001	View Website Home Page (Guest)	The users should be able to view the listings available and open the login form.
SR002	View Website Home Page (Registered)	The users should be able to view the listings available and access the user module.
SR003	Login with incorrect Username/password	The users should be able to see if the username/password is incorrect
SR004	Login with correct Username/password	The users should be able to login their account and be redirected to the homepage
SR005	Register/Create Account	The users should be able to register their username and password

SR006	Fill information for account creation	The users should be redirected to the fill-up page and input their personal information
SR007	View Registered Account	The users should be able to view their personal information.
SR008	Edit information (limited)	The users should be able to edit the information in their registered account, specifically the email, contact number and profile picture.
SR009	Delete Account	The admin should be able to delete an account.
SR010	Create/Add listing	The landlord should be able to create and add listing including the pictures of the property
SR011	View listing	The users should be able to see the listing details such as image, address, etc. while verified users can view the contact details of the owner and cribsharers.
SR012	Delete existing listing	The landlord should be able to delete the existing listings.
SR013	Add inquiry request	The searchers should be able to add an inquiry request to the landlords
SR014	View inquiry request	The users should be able to see the inquiry requests sent and received.
SR015	Accept/Reject inquiry request	The landlords should be able to accept and reject the request of the searchers.
SR016	Rate tenant	The landlords should be able rate the tenant
SR017	Rate listing	The tenants should be able to rate listings that they currently occupy.
SR018	View rating and reviews	The user should be able to view the ratings and reviews of their property or account.
SR019	Upload ID for User Validation	The users should be able to upload an ID for their account validation
SR020	View validation request	The admin should be able to see the validation requests of the users.
SR021	Edit Verification Status	The admin should be able to approve or reject the validation request.

## D. Testing Cases Summary

**Table 6.2 Test Cases**

Test Case ID	Name	Requirement to be tested
TC001	View Website Home Page (Guest)	SR001
TC002	View Website Home Page (Registered)	SR002
TC003	Login with incorrect Username/password	SR003
TC004	Login with correct Username/password	SR004
TC005	Register/Create Account	SR005
TC006	Fill information for account creation	SR006
TC007	View Registered Account	SR007
TC008	Edit information (limited)	SR008
TC009	Delete Account	SR009
TC010	Create/Add listing	SR010
TC011	View listing	SR011
TC012	Delete existing listing	SR012
TC013	Add inquiry request	SR014
TC014	View inquiry request	SR015
TC015	Accept/Reject inquiry request	SR016
TC016	Rate tenant	SR017
TC017	Rate listing	SR018
TC018	View rating and reviews	SR019
TC019	Upload ID for User Validation	SR020
TC020	View validation request	SR021

TC021	Edit Verification Status	SR022
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### E. Result of the Testing

**Table 6.3 Test Cases Results**

Test Case ID	Result	Remarks
TC001	Passed	
TC002	Passed	
TC003	Passed	
TC004	Passed	
TC005	Passed	
TC006	Passed	
TC007	Passed	
TC008	Passed	
TC009	Passed	
TC010	Passed	
TC011	Passed	
TC012	Passed	
TC013	Passed	
TC014	Passed	
TC015	Passed	
TC016	Passed	
TC017	Passed	
TC018		Review is not still visible
TC019	Passed	

TC020	Passed	
TC021	Passed	

## VII. CONCLUSION AND RECOMMENDATION

In conclusion, a well-designed and efficiently implemented online listing and rental platform is paramount for the success of any property management business. It serves as the backbone of operations, facilitating seamless management of property listings, tenant inquiries, and overall rental processes. An effective online platform provides real-time visibility into property availability, reduces the risk of vacancies, and enhances decision-making by providing accurate and up-to-date information.

Furthermore, although the platform requires property owners to manually post their listings, it still significantly increases operational efficiency. It enables businesses to optimize their resources, streamline workflows, and allocate capital more effectively. Additionally, the integration of user-friendly features such as advanced search filters, secure communication channels, and data analytics enhances the overall user experience and management processes.

Ultimately, a robust online rental platform not only contributes to cost savings but also enhances tenant satisfaction by ensuring property availability and timely responses to inquiries. As the real estate market continues to evolve, investing in and maintaining a state-of-the-art online listing and rental platform is essential for staying competitive in today's dynamic and fast-paced market.

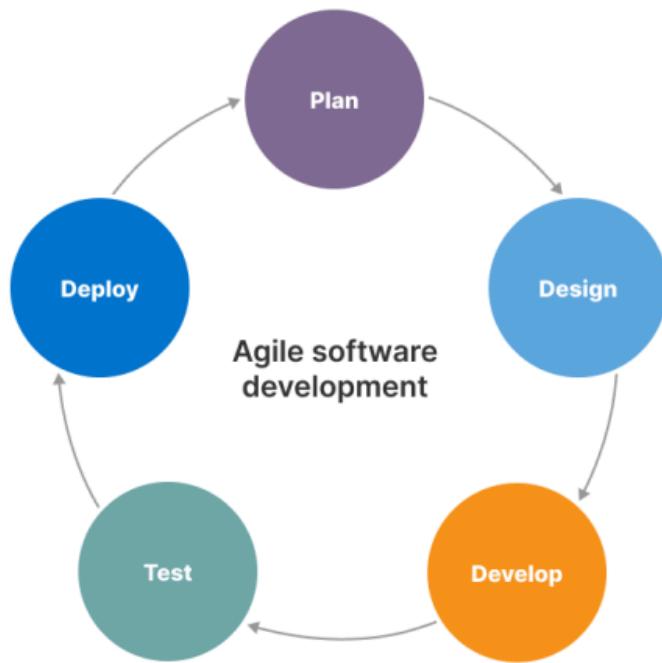
For future studies, several recommendations can be made to enhance the development and effectiveness of an online listing and rental platform. Integrating AI and machine learning can improve search functionality and provide personalized property recommendations, enhancing user experience. Additionally, implementing advanced data analytics to study user behavior will offer insights for continuous improvement of the platform's interface and functionality. Enhanced security measures, such as blockchain for secure transactions and advanced encryption, should be researched to ensure user data privacy and protection. The inclusion of virtual and augmented reality for property tours can significantly enhance the user experience by allowing potential tenants to explore properties remotely in an immersive way. Furthermore, optimizing the platform for mobile use and developing dedicated mobile applications can increase accessibility and convenience for users.

Other recommendations include researching the integration of sustainability features into property listings to appeal to environmentally conscious users, and implementing AI-powered chatbots to provide immediate customer support. Encouraging user-generated content, such as reviews and ratings, can enhance trust and credibility. Providing detailed local market insights, including neighborhood statistics and nearby amenities, can add significant value to users. Finally, developing features that allow for customization and personalization of search criteria and notifications will improve user satisfaction. By focusing on these areas, future studies can contribute to the continuous improvement and innovation of online listing and rental platforms, ensuring they meet the evolving needs of both property owners and tenants.

# **Appendices**

# **Appendix A: Software Project Management Plan (SPMP)**

## A. Software Process Model



**Figure A.1 Agile Software Development**

## B. Roles and Responsibilities

**Table A.1 Roles and Responsibilities**

Roles	Responsibilities	
Programmer	Is responsible for the programming of the system and ensuring that the system is fully functional	Carpio, Kristine Shyra A. Villegas, Eugene D.
UI/UX Designer	Is responsible for preparing and improving the user interface into a user-friendly and easy to navigate and understand.	Carpio, Kristine Shyra A. Villegas, Eugene D.
Database Designer	Is responsible for designing the database of the system.	Dela Cruz, Gabriel D. Dida-Agun, Abdul Rahman A.
System Analyst	Identifies the improvements needed, design systems to implement those changes and to motivate other members to work.	Villegas, Eugene D.

Technical Writer	Is responsible for writing documents that explains the system functionalities and requirements.	Carpio, Kristine Shyra A. Dela Cruz, Gabriel D. Diaz, John Mikael R. Dida-Agun, Abdul Rahman A. Javier, Beejay B. Villegas, Eugene D.
Software Tester	Identifies test conditions and creates test designs, test cases, test procedure specifications and test data, and may automate or help to automate the tests.	Dela Cruz, Gabriel D. Diaz, John Mikael R. Dida-Agun, Abdul Rahman A. Javier, Beejay B.

### C. Time Table

**Table A.2 Time Table**

PHASE	TASK NO.	ACTIVITIES/TASK	RESPONSIBILITY	DURATION	DELIVERABLES	WEIGHT
PROJECT PLANNING	1	DETERMINING THE PROJECT GOAL	ALL	5 DAYS	ANSWERS TO THE QUESTION OF WHAT THE PROJECT IS ALL ABOUT	3
	2	RESEARCH FOR RELATED LITERATURE	ALL	3 WEEKS	RELATED RESEARCH ABOUT THE PROBLEM AND THE EFFECTIVENESS OF THE SOLUTION	3
	3	IDENTIFYING POTENTIAL CUSTOMERS	ALL	1 DAY	LIST OF POSSIBLE USERS	1
	4	SURVEY	JAVIER, VILLEGRAS	1 WEEK	ANSWERED ONLINE SURVEYS	1

	5	FEASIBILITY STUDY	ALL	5 DAYS	INFORMATION REGARDING THE PROJECT	3
	6	REQUIREMENT ANALYSIS	DELA CRUZ, VILLEGRAS	1 DAY	PARTIAL DOCUMENTATION FOR THE REQUIREMENTS OF THE PROJECT	3
SYSTEM DESIGN	7	DFD LVL 0	ALL	1 DAY	GRAPHICAL REPRESENTATION OF DATA FLOW	2
	8	DFD LVL 1	ALL	2 DAY	GRAPHICAL REPRESENTATION OF DATA FLOW	2
	9	ENTITY RELATIONSHIP DIAGRAM	JAVIER	2 DAY	GRAPHICAL REPRESENTATION OF ENTITY RELATIONSHIPS	2
	10	DATA DICTIONARY	DIDA-AGUN	2 DAY	STRUCTURED TABLE OF THE DATABASE	2
	11	USER INTERFACE	CARPIO	3 WEEKS	INTERFACE LAYOUT	3
TESTING	12	BETA TEST	ALL	3 DAY	INTRODUCE IT TO A LARGER GROUP , GET FEEDBACK AND REPORT BUGS	3
	13	BUG FIX	ALL	5 DAYS	FIXED ERRORS, MEET ENDS WITH CUSTOMER/USER SUGGESTIONS	1
DEPLOYMENT	14	LAUNCH	ALL	1 DAY	LAUNCHED SYSTEM	1
MAINTENANCE	15	MAINTENANCE	ALL	CONTINUOUS	MINOR ERROR CHECKUPS	3

## D. Task Dependencies

Table A.3 Task Dependencies

Tasks	Assigned Members
<b>Chapter 1</b> <b>Introduction</b>	Carpio Dela Cruz Diaz Dida-agun Javier Villegas
<b>Chapter 2</b> <b>Software Needs Validation</b>	Dela Cruz Javier Villegas
<b>Chapter 3</b> <b>Software Design Evaluation</b> <b>A. External Interface Requirements</b> <b>B. Non Functional Requirement</b>	Dela Cruz Javier

<p><b>Chapter 4</b></p> <p><b>Technology and Techniques Evaluation</b></p> <ul style="list-style-type: none"> <li><b>A. Abstract</b></li> <li><b>B. Introduction</b></li> <li><b>C. RRL</b></li> <li><b>D. Methodology</b></li> <li><b>E. Results and Discussion</b></li> <li><b>F. Conclusion and Recommendation</b></li> </ul>	Carpio Villegas
<p><b>Chapter 5</b></p> <p><b>Software Design Description</b></p> <ul style="list-style-type: none"> <li><b>A. System Architecture</b></li> <li><b>B. Constraints</b></li> <li><b>C. Functional View</b></li> <li><b>D. DFD</b></li> <li><b>E. System Flowchart</b></li> <li><b>F. ERD</b></li> <li><b>G. Data Structure</b></li> </ul>	Javier Villegas

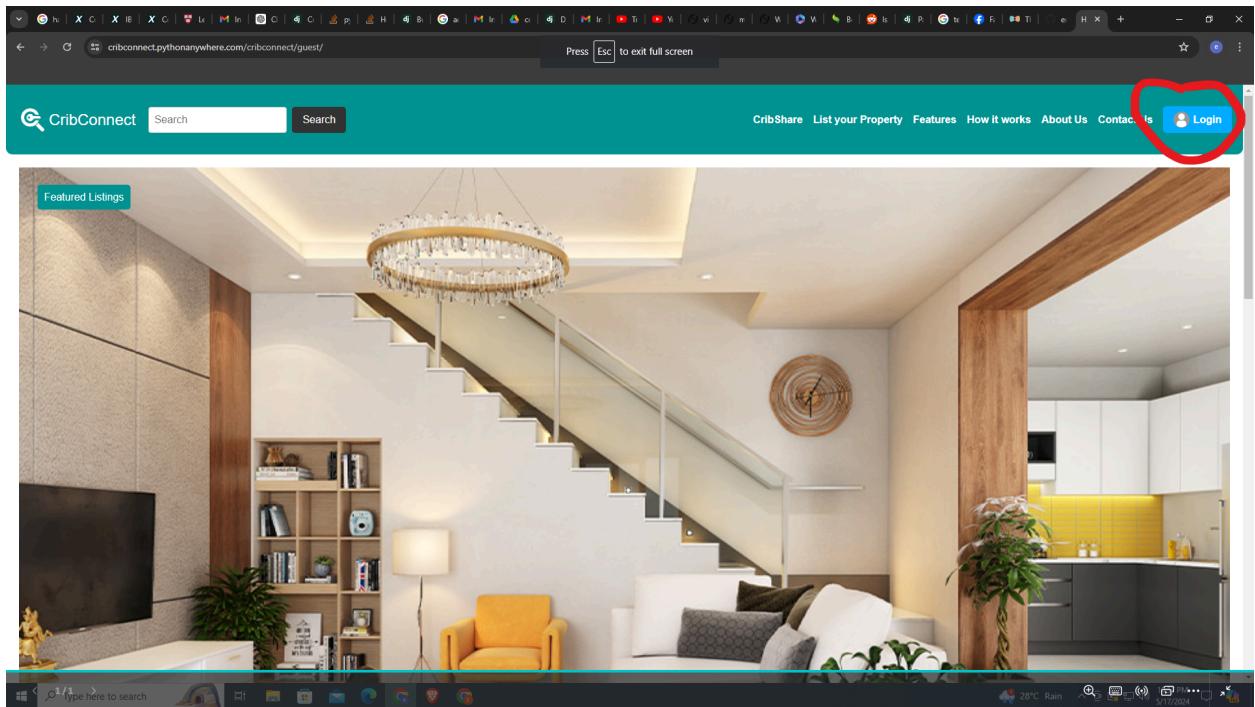
<p><b>Chapter 6</b></p> <p><b>Software Testing and Evaluation</b></p> <ul style="list-style-type: none"> <li><b>A. Test Approach</b></li> <li><b>B. Test Plan</b></li> <li><b>C. Testing</b></li> </ul>	Dela Cruz Villegas
<p><b>Chapter 7</b></p> <p><b>Conclusion and Recommendation</b></p>	Dela Cruz
<p><b>Appendix</b></p> <ul style="list-style-type: none"> <li><b>A. Software Process Model</b></li> <li><b>B. Roles And Responsibilities</b></li> <li><b>C. Time Table</b></li> <li><b>D. Task Dependencies</b></li> <li><b>E. Resources Needed</b></li> <li><b>F. Gantt Chart</b></li> </ul>	Dela Cruz Javier Villegas

## E. Gantt Chart

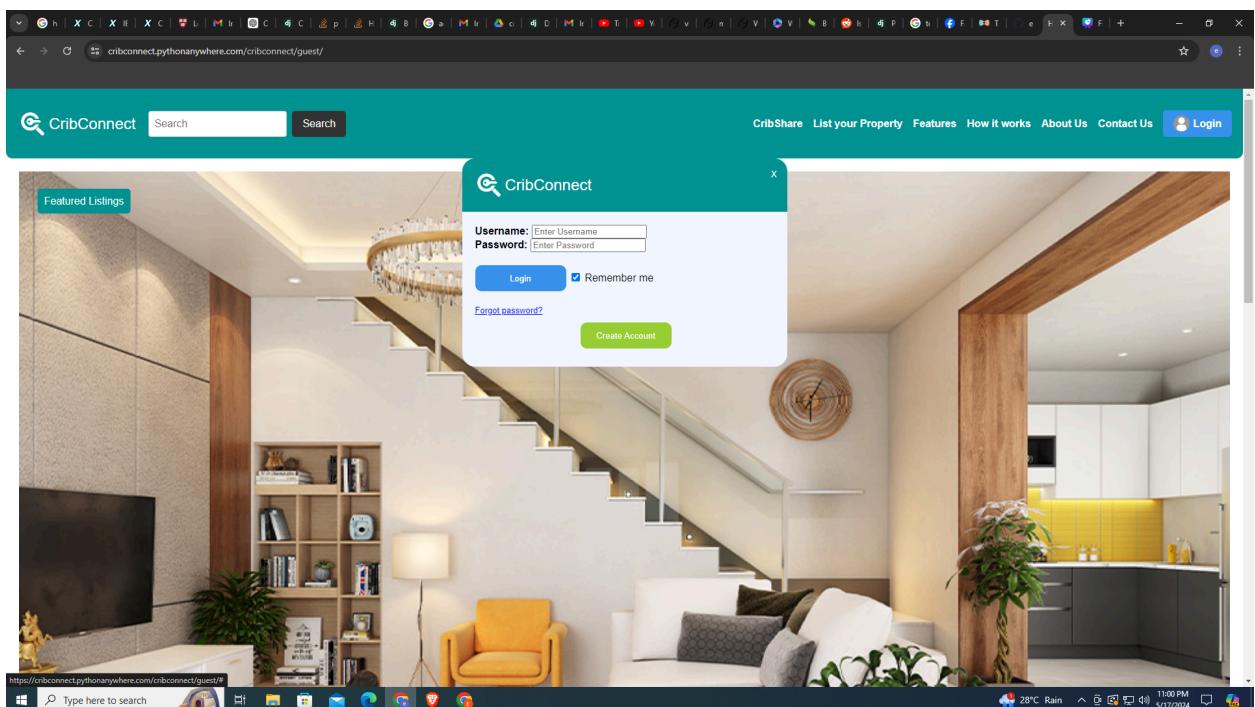
Task / Process	Month 1		Month 2		Month 3		Month 4		Month 5	
	15-Jan-24	22-Jan - 25-Feb			26-Feb - 19-Mar		20-Mar - 16-Apr		18-Apr - 17-May	
Project Planning	15-21	22-25		26-1	2-3	4-19	20-16	17	18-17	
System Design										
Testing										
Deployment										
Maintenance										

Figure A.2 Gantt Chart

# **Appendix B: User's Manual**



On the homepage click the login button on the upper right corner.



Create an Account by clicking the button "Create Account".

The screenshot shows a 'Create Account' page with a teal header featuring a magnifying glass icon. The form fields include:

- Username:
- Required: 150 characters or fewer. Letters, digits and @/\_ only.
- Password:
- Your password can't be too similar to your other personal information.  
• Your password must contain at least 8 characters.  
• Your password can't be a commonly used password.  
• Your password can't be entirely numeric.
- Password confirmation:
- Enter the same password as before, for verification.
- Submit
- go back

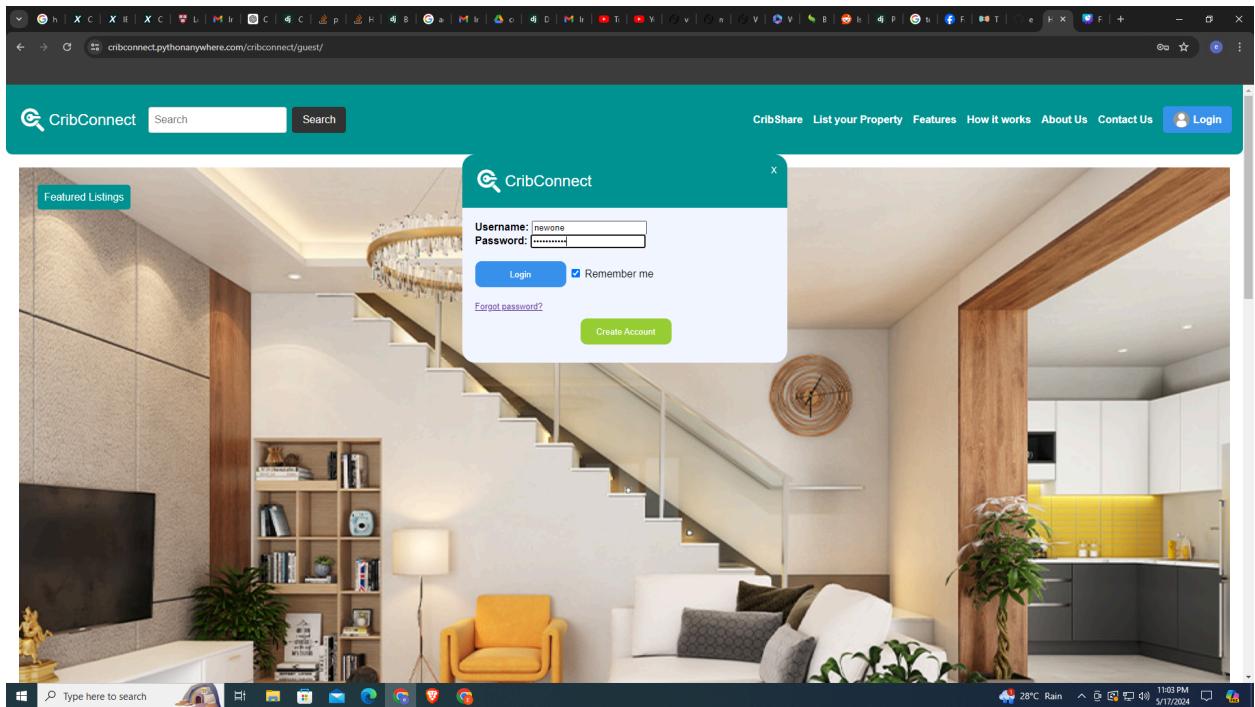


Enter your desired username and password. Make sure to match the password confirmation. Click submit.

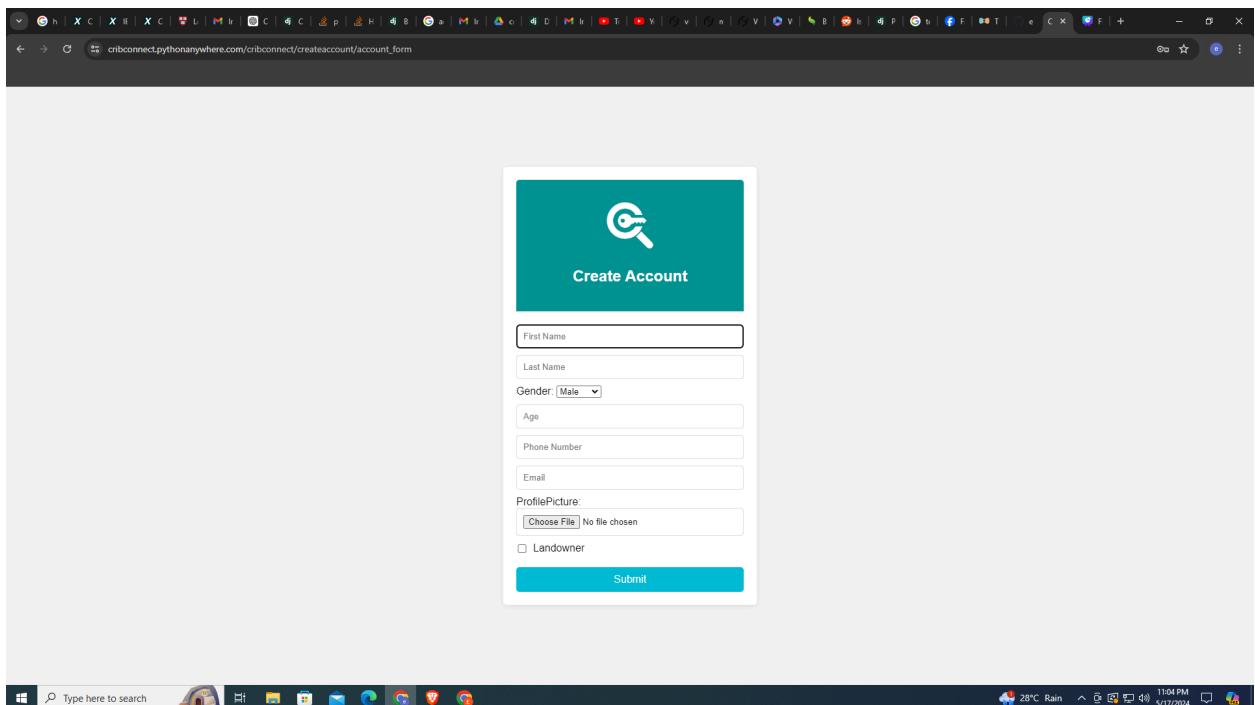
The screenshot shows the CribConnect guest homepage with a teal header. The main content area displays a large image of a modern interior with a staircase, a chandelier, and a living room. The navigation bar includes:

- CribConnect
- Search
- Search
- Account successfully created. ×
- CribShare
- List your Property
- Features
- How it works
- About Us
- Contact Us
- Login

When an account is created, click the "Login" button and input username and password that was created earlier.



Click the login button. The user will be redirected to the filling up of information form



Fill up the information form.



## Create Account

Marian Rivera

Gender: Female

36

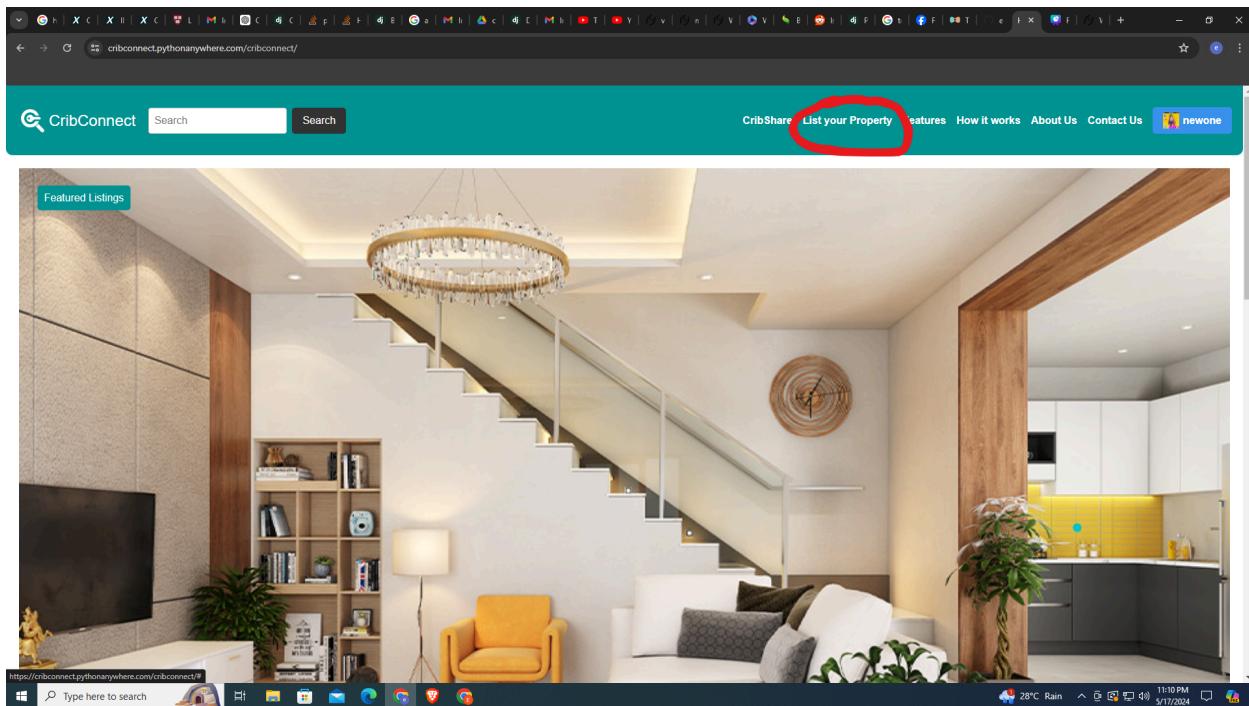
0995456745

yanyan@gmail.com

ProfilePicture  
 1 PNG

Landowner

Check "Landowner" if landowner.



Once logged in, click list your property to create a listing

**List Your Property**

Description:

Address: House no.  Street  Barangay   
Municipality  Province  Zip Code

Price: ₱

Capacity:

Dimension:

Type:  Apartment

Primary Image:  Choose File

**Payment Terms**

Advanced Payment: ₱

Security Deposit: ₱

Minimum Stay: Years

Utility Payment: ₱

**Amenities/Features**

Add:

<input type="checkbox"/> Male Only	<input type="checkbox"/> Air Conditioning	<input type="checkbox"/> Curfew
<input type="checkbox"/> Female Only	<input type="checkbox"/> Near Transit	<input type="checkbox"/> Visitor
<input type="checkbox"/> Bathroom	<input type="checkbox"/> Near Laundry	<input type="checkbox"/> Accessibility
<input type="checkbox"/> Kitchen	<input type="checkbox"/> Pets	
<input type="checkbox"/> WiFi	<input type="checkbox"/> Parking	

**Submit**

Fill up the required information about the listing that the landowner wants to be displayed.

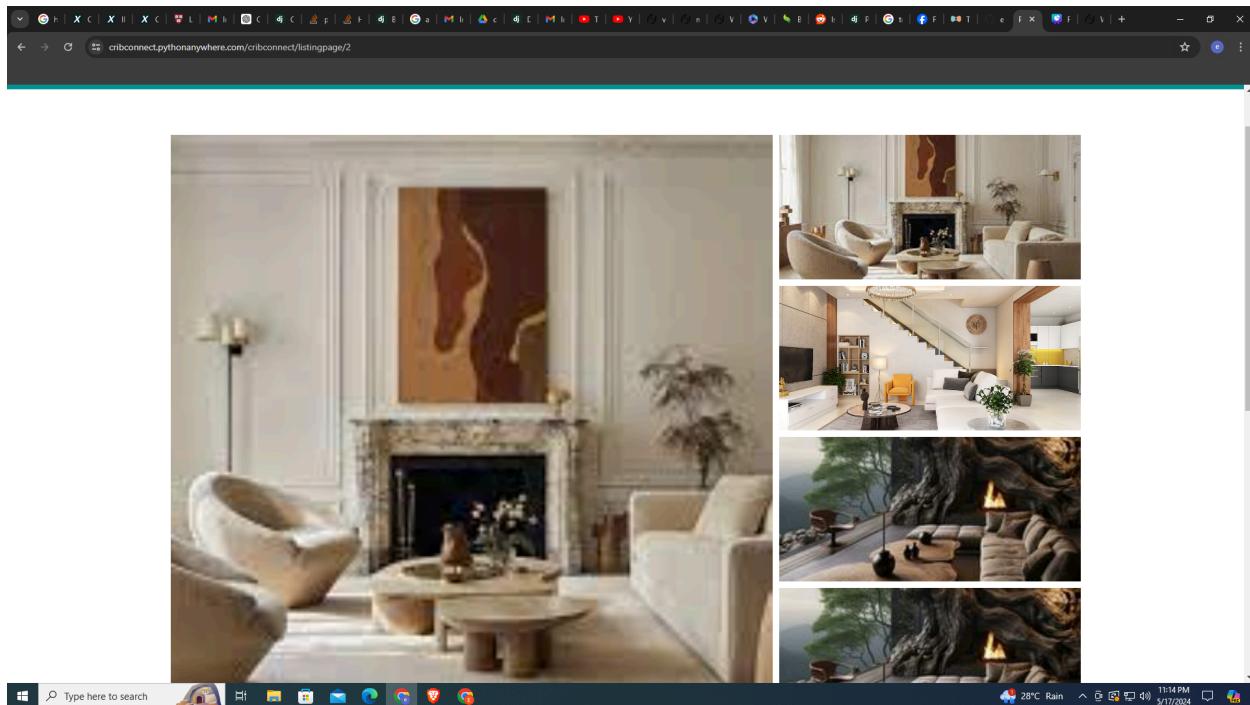
**P 9500**  
Paranaque City  
For rent! Apartment in Paranaque

**P 1**  
1 City  
1

**View all**

https://cribconnect.pythonanywhere.com/cribconnect/listingpage/2

Once the listing has been created, go back to the menu to see if the listing has been displayed to the menu. Click the listing you want to view.



Scroll down to the bottom to check details

A screenshot of the same listing page after scrolling down. The main image is still the same. On the right side, there is a sidebar with additional information:

- Type: Apartment
- Address: 27a, Pascual, Santo Nino, Paranaque City, Metro Manila
- Area: 29 sqm.
- Payment Terms:
  - Advance Payment: ₱9500
  - Security Deposit: ₱9500
  - Utility Payment: ₱500
  - Minimum Stay: 2 year/s.
- Listing Price: ₱9500 - For rent! Apartment in Paranaque
- Rating: ★★★★☆
- Request Inquiry button
- Owner contact information:
  - Phone Number: 9471234567
  - Email Address: eugenevillegas27@gmail.com
- Current cribshare requestors:
  - 4 Gengeng Usul, 47, Male

This is the overview of the listing together with the rating of the listing and the tenants that are currently living in the property.

**P9500 - For rent! Apartment in Paranaque**

Type: Apartment

27a, Pascual, Santo Nino, Paranaque City, Metro Manila

Area: 29 sqm.

Payment Terms:

Advance Payment: ₱9500  
Security Deposit: ₱9500  
Utility Payment: ₱500  
Minimum Stay: 2 year/s.

Rating: ★★★★☆ Request Inquiry

Owner contact information:  
Phone Number: 9471234567  
Email Address: eugenevillegas27@gmail.com

Current cribshare requestors:  
★ 4 Genggeng Usui, 47, Male

By clicking the “Request Inquiry” button an option will pop up.

**P9500 - For rent! Apartment in Paranaque**

Type: Apartment

27a, Pascual, Santo Nino, Paranaque City, Metro Manila

Area: 29 sqm.

Payment Terms:

Advance Payment: ₱9500  
Security Deposit: ₱9500  
Utility Payment: ₱500  
Minimum Stay: 2 year/s.

Rating: ★★★★☆ Request Inquiry

Owner contact information:  
Phone Number: 9471234567  
Email Address: eugenevillegas27@gmail.com

Current cribshare requestors:  
★ 4 Genggeng Usui, 47, Male

Apartment searchers can select between cribshare or standard request.

A screenshot of a web browser window displaying the CribConnect application. The URL in the address bar is `cribconnect.pythonlywhere.com/cribconnect/module2/`. The page shows a user profile for "Marian Rivera" with a yellow cartoon character icon, status "Unverified", phone number "995456745", and email "yanyan@gmail.com". On the left, a sidebar menu includes "Properties", "Inquiry Requests", "Rating & Review", "Account Verification", and "Edit Account Information". The main content area is titled "All Requests" and shows one item: "1 Gengeng Usui Female Type: Standard". To the right of the request details are two buttons: a green checkmark button and a red cross button.

After receiving the request, landowners can accept or decline by clicking the buttons beside the request details.

A screenshot of a web browser window displaying the CribConnect application. The URL in the address bar is `cribconnect.pythonlywhere.com/cribconnect/module2/`. The page shows a user profile for "Marian Rivera" with a yellow cartoon character icon, status "Unverified", phone number "995456745", and email "yanyan@gmail.com". The top navigation bar includes a "Logout" button, which is circled in red. The main content area is titled "All Requests" and shows one item: "1 Gengeng Usui Female Type: Standard". To the right of the request details are two buttons: a green checkmark button and a red cross button.

To log out, simply click the red button on the upper right corner.

# **Appendix C: Actual Testing Result**

Respondent 1: Che Dela Rosa (landowner)

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system		✓		
Correctness	The system should function as its purpose				✓
Portability	The users should be able to use the system anywhere				
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true			✓	

Respondent 2: Lulu Paguia (landowner)

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users		✓		
Availability	The system should be available for web and mobile with the minimum required system		✓		
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true			✓	

Respondent 3: Marilou Co (landowner)

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true				✓

Respondent 4: Czar Mercado

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system				✓
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be		✓		
Reliability	The information of the listing should be accurate and true		✓		

Respondent 5: Jett Espiritu

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose		✓		
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true			✓	

Respondent 6: Tyra Prix Zaraspe

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true			✓	

Respondent 7: Tristan Yanoria

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users				✓
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true				✓

Respondent 8: Genaro Carigma (landowner)

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users		✓		
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true			✓	

Respondent 9: Efraim Baculi

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true				✓

Respondent 10: Justin Victolero

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users				✓
Availability	The system should be available for web and mobile with the minimum required system				✓
Correctness	The system should function as its purpose				✓
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true				✓

Respondent 11: Jho-annes Victolero

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose				✓
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true			✓	

Respondent 12: Gallen Rose Blosa

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose		✓		
Portability	The users should be able to use the system anywhere		✓		
Usability	The effectiveness of the system should be		✓		
Reliability	The information of the listing should be accurate and true		✓		

Respondent 13: RC Lloyd Concepcion

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true				✓

Respondent 14: Felicity Kaye Paulino

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose				✓
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true			✓	

Respondent 15: Ernesto Calmante

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users				✓
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose		✓		
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true			✓	

Respondent 16: Necisia Dela Cruz (landowner)

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system		✓		
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere		✓		
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true			✓	

Respondent 17: Auryl Marco Javier

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose				✓
Portability	The users should be able to use the system anywhere				✓
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true				✓

Respondent 18: Shey Dangupon

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be		✓		
Reliability	The information of the listing should be accurate and true			✓	

Respondent 19: Ruff Soriano

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users		✓		
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be			✓	
Reliability	The information of the listing should be accurate and true		✓		

Respondent 20: Rashmin Driza

Attributes	Description	1 (poor)	2 (fair)	3 (good)	4 (very good)
Acceptability	The user interface and the functionality of the system must be user friendly and easy to understand for the target users			✓	
Availability	The system should be available for web and mobile with the minimum required system			✓	
Correctness	The system should function as its purpose			✓	
Portability	The users should be able to use the system anywhere			✓	
Usability	The effectiveness of the system should be				✓
Reliability	The information of the listing should be accurate and true				✓

# **Appendix D: Source Code**

File Edit Selection View Go Run Terminal Help

cribconnect > models.py ...

```
1 from django.db import models
2
3 # Create your models here.
4 from django.db import models
5 from django.contrib.auth.models import User
6
7 GENDER_CHOICES = {
8     "MALE": "Male",
9     "FEMALE": "Female"
10 }
11
12 # Create your models here.
13
14 class rateReviews(models.Model):
15     rating = models.PositiveSmallIntegerField()
16     review = models.CharField(max_length=255, blank=True)
17
18 class account(models.Model):
19     user = models.OneToOneField(User, on_delete=models.CASCADE, unique=True)
20     phoneNumber = models.IntegerField(null=True)
21     age = models.IntegerField(null=True)
22     gender = models.CharField(max_length=8, null=True, blank=True, choices=GENDER_CHOICES)
23     is_verified = models.BooleanField(default=False, blank=True)
24     is_landowner = models.BooleanField(default=False, null=True, blank=True)
25     profilePicture = models.ImageField(upload_to='profile_pics/', null=True, blank=True)
26     rating = models.ForeignKey(rateReviews, on_delete=models.CASCADE, related_name="rating", null=True)
27
28     def __str__(self):
29         return f"[{self.pk}] {self.user.last_name}"
30
31 class listingAddress(models.Model):
32     houseNumber = models.CharField(max_length=16)
33     street = models.CharField(max_length=64)
34     barangay = models.CharField(max_length=64)
35     municipality = models.CharField(max_length=64)
36     province = models.CharField(max_length=64)
37     postalCode = models.SmallIntegerField()
38
39 class listingFeatures(models.Model):
40     pets = models.BooleanField()
```

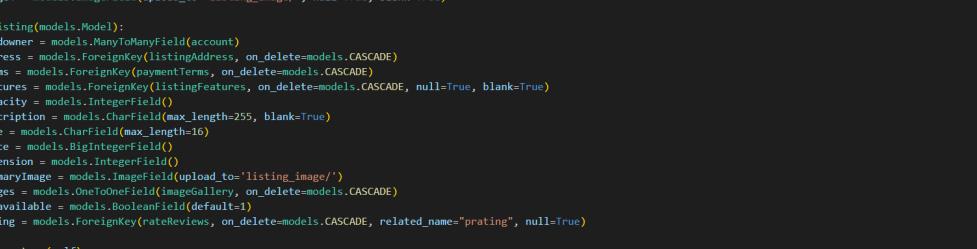
Ln 17, Col 1 Spaces:4 UTF-8 CRLF Python 3.12.2 64-bit

File Edit Selection View Go Run Terminal Help

cribconnect > views.py > cribshare.view

```
1 from django.shortcuts import render
2
3 # Create your views here.
4 from django.shortcuts import render, redirect
5 from django.urls import reverse
6 from django.http import HttpResponseRedirect
7 from django.contrib.auth import authenticate, login, logout
8 from .forms import *
9 from .models import *
10 from django.contrib import messages
11 from django.contrib.auth.models import User
12
13 # Create your views here.
14 def index(request):
15     if request.user.is_authenticated:
16         if request.user.email == "":
17             return HttpResponseRedirect(reverse("accountform"))
18         elif request.GET.get("searchval"):
19             searchval = request.GET.get("searchval")
20             return render(request, searchval, "resultpage.html")
21         context = {
22             'listings': listing.objects.all(), 'account': account.objects.filter(user=request.user).first()
23         }
24
25         return render(request, "cribconnect/index.html", context)
26     return HttpResponseRedirect(reverse("guest"))
27
28 def cribshare_view(request):
29     if request.method == "POST":
30         username = request.POST["username"]
31         password = request.POST["password"]
32         user = authenticate(request, username=username, password=password)
33         if user:
34             login(request, user)
35             return render(request, "cribconnect/cribshare_view.html", {"cribshare": cribshare.objects.all()})
36
37 def module2(request):
38     pic_form = profileForm()
39     id_form = idForm()
40
```

Ln 33, Col 79 Spaces:4 UTF-8 CRLF Python 3.12.2 64-bit



The screenshot shows a code editor with multiple tabs open. The main tab displays a Python file containing several model classes: `settings.py`, `models.py`, and `cribsconnect`. The `models.py` file contains definitions for `listing`, `inquiryRequest`, `cribshare`, and `tenant` models. The `listing` model has fields like `landowner`, `address`, `terms`, `features`, `capacity`, `description`, `type`, `price`, `dimension`, `primaryImage`, `images`, `is_available`, and `rating`. The `inquiryRequest` model has fields for `fromUserID`, `toUserID`, `listingID`, `requestType`, and `requestStatus`. The `cribshare` model has fields for `userID` and `listingID`. The `tenant` model has a field for `userID`. The code uses Django's Model API with various field types and constraints.

```

102 class tenant(models.Model):
103     userID = models.ForeignKey(account, on_delete=models.CASCADE)
104     listingID = models.ForeignKey(listing, on_delete=models.CASCADE)
105     status = models.CharField(max_length=16)
106
107 class forVerification(models.Model):
108     userID = models.ForeignKey(account, on_delete=models.CASCADE)
109     frontPhoto = models.ImageField(upload_to='for_verification/')
110     backPhoto = models.ImageField(upload_to='for_verification/')

```

This screenshot shows a code editor with multiple tabs open. The active tab is 'forms.py'. The code defines several forms:

- createUser**: A form for creating a User, inheriting from UserCreationForm. It has a Meta class specifying the model is User and fields are username, email, password1, and password2.
- imageForm**: A ModelForm for the listing model, with a Meta class specifying fields are primaryImage.
- galleryForm**: A ModelForm for the imageGallery model, with a Meta class specifying fields are image1, image2, image3, and image4.
- profileForm**: A ModelForm for the account model, with a Meta class specifying fields are profilePicture.
- idForm**: A ModelForm for the forVerification model, with a Meta class specifying fields are frontPhoto and backPhoto.

The code editor interface includes a toolbar at the top with File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar. The bottom status bar shows file path, line count (Ln 1, Col 1), spaces (Spaces:4), encoding (UTF-8), and other details.

This screenshot shows a code editor with multiple tabs open. The active tab is 'views.py'. The code contains a function-based view 'module2' that handles requests:

- If the user is not authenticated, it returns a redirect to the guest page.
- If the request method is POST, it processes various form submissions:
  - For 'delete-listing', it retrieves the user rating (urate) and listing review (ureview), then updates the listing's rating and review.
  - For 'edit-phone', it retrieves the phone number (edit\_phone) and updates the account's phone number.
  - For 'edit-email', it retrieves the email (edit\_email) and updates the account's email.
  - For 'dp', it retrieves the digital photo (dp) and updates the account's digital photo.
  - For 'inquiry\_id', it retrieves the inquiry ID (inquiry\_id) and updates the inquiry's status based on the response ('Accepted' or 'Rejected').
  - For 'rate', it retrieves the rating (lrate) and listing review (lreview), then updates the listing's rating and review.
  - For 'rateReviews', it creates a new rateReviews object with rating (urate) and review (ureview), then updates the listing's rating and review.
  - For 'update', it retrieves the rating (urate) and account review (ureview), then updates the account's rating and review.
- If the response is 'Accepted', it updates the inquiry's status to 'Settled'.
- If the inquiry request type is 'Standard', it creates a new tenant object with the user ID and listing ID.
- If the inquiry request type is 'Cribshare', it creates a new cribshare object with the user ID and listing ID.
- If the response is 'Rejected', it updates the inquiry's status to 'Rejected'.
- If the delete\_listing condition is met, it deletes the listing object.

The code editor interface includes a toolbar at the top with File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar. The bottom status bar shows file path, line count (Ln 33, Col 79), spaces (Spaces:4), encoding (UTF-8), and other details.

A screenshot of a code editor showing Python code for a Django application named 'cribconnect'. The code is contained in the file 'views.py' and includes imports for 'settings.py', '\_init\_.py', 'guessthml', and 'cribshare.view'. The code defines several functions: 'module2', 'listingpage', and 'propertylisting'. The 'module2' function handles various user inputs like rating, phone number, email, and profile picture, and saves them to their respective models. It also creates a 'forVerification' object and renders a template 'module2.html'. The 'listingpage' function retrieves a listing by ID and handles POST requests to update it. The 'propertylisting' function handles POST requests to create a new property listing.

```
File Edit Selection View Go Run Terminal Help
settings.py _init_.py guessthml views.py Settings
cribconnect > views.py > cribshare.view
38 def module2(request):
    39     rateReviews.objects.create(rating=rate, review=lreview)
    40     listing.objects.filter(pk=tenant.objects.filter(userID=cur_user).first().listingID.id).update(rating=rateReviews.objects.last())
    41     elif edit_phone:
    42         account.objects.filter(pk=cur_user.id).update(phoneNumber=edit_phone)
    43     elif edit_email:
    44         User.objects.filter(pk=request.user.id).update(email=edit_email)
    45     elif dp:
    46         pic_form = profileForm(request.POST, request.FILES, instance=account.objects.filter(pk=cur_user.id).first())
    47         if pic_form.is_valid():
    48             pic_form.save()
    49         else:
    50             forVerification.objects.create(userID=cur_user)
    51             id_form = idForm(request.POST, request.FILES, instance=forVerification.objects.filter(userID=cur_user.id).last())
    52             if id_form.is_valid():
    53                 id_form.save()
    54             context = {
    55                 "listings": property.all(),
    56                 "account": account.objects.filter(user = request.user).first(),
    57                 "requests": inquiryRequest.objects.all(),
    58                 "tenants": tenant.objects.filter(listingID=property.first().id).all(),
    59                 "tenants_count": tenants_count,
    60                 "rating": rateReviews.objects.all(),
    61                 "id_form": id_form,
    62                 "pic_form": pic_form
    63             }
    64             return render(request, "cribconnect/module2.html", context)
    65
    66 def listingpage(request, pk):
    67     listingdetails = listing.objects.get(id=pk)
    68     if request.user.is_authenticated:
    69         if request.method == "POST":
    70             from userID = request.user.account
    71             to(userID = account.objects.filter(listing=listingdetails).last()
    72             requestType = request.POST.get('requestType')
    73             inquiryRequest.objects.create(from(userID=from(userID, to(userID=to(userID, listingID=listingdetails, requestType=requestType)
    74
    75     else:
    76         if request.method == "POST":
    77             username = request.POST["username"]
    78             password = request.POST["password"]
    79
    80
    81
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    137
    138
    139
    140
```

A screenshot of a code editor showing Python code for a Django application named 'cribconnect'. The code is contained in the file 'views.py' and includes imports for 'settings.py', '\_init\_.py', 'guessthml', and 'cribshare.view'. The code defines several functions: 'listingpage', 'propertylisting', and 'guestlisting'. The 'listingpage' function retrieves a listing by ID and handles POST requests to update it. The 'propertylisting' function handles POST requests to create a new property listing. The 'guestlisting' function handles guest users and returns a redirect to the guest index.

```
File Edit Selection View Go Run Terminal Help
settings.py _init_.py guessthml views.py Settings
cribconnect > views.py > cribshare.view
101 def listingpage(request, pk):
102     listingdetails = listing.objects.get(id=pk)
103     if request.user.is_authenticated:
104         if request.method == "POST":
105             from(userID = request.user.account
106             to(userID = account.objects.filter(listing=listingdetails).last()
107             requestType = request.POST.get('requestType')
108             inquiryRequest.objects.create(from(userID=from(userID, to(userID=to(userID, listingID=listingdetails, requestType=requestType)
109
110     else:
111         if request.method == "POST":
112             username = request.POST["username"]
113             password = request.POST["password"]
114             user = authenticate(request, username=username, password=password)
115             if user:
116                 login(request, user)
117             context={
118                 'listing': listingdetails, 'address': listingAddress.objects.all(),
119                 'terms': paymentTerms.objects.all(), 'images': imageGallery.objects.all(),
120                 'rating': rateReviews.objects.all(), 'cribshare': cribshare.objects.filter(ListingID=listingdetails.all()),
121                 'account': account.objects.filter(pk=listingdetails.landowner.first().id).first()
122             }
123             return render(request, "cribconnect/viewproperty.html", context)
124
125 def propertylisting(request):
126     if not request.user.is_authenticated:
127         return HttpResponseRedirect(reverse("guest"))
128     elif request.user.account.landowner == 0:
129         return HttpResponseRedirect(reverse("index"))
130     elif request.method == "POST":
131         description = request.POST.get("description")
132         houseNumber = request.POST.get("houseNumber")
133         street = request.POST.get("street")
134         barangay = request.POST.get("barangay")
135         municipality = request.POST.get("municipality")
136         province = request.POST.get("province")
137         postalCode = request.POST.get("postalCode")
138         price = request.POST.get("price")
139         capacity = request.POST.get("capacity")
140         dimension = request.POST.get("dimension")
```

The screenshot shows a code editor interface with two tabs open: `views.py` and `settings.py`. The `views.py` tab contains the following code:

```
File Edit Selection View Go Run Terminal Help ← → ⌘ finals
settings.py _init_.py cribshare.view views.py Settings
cribconnect > views.py cribshare.view
125     def propertylisting(request):
126         utilityPayment = request.POST.get('utilityPayment')
127
128         gform = galleryForm(request.POST, request.FILES)
129         if gform.is_valid():
130             gform.save()
131             listingAddress.objects.create(houseNumber=houseNumber, street=street, barangay=barangay, municipality=municipality, province=province, postalCode=postalCode)
132             paymentTerms.objects.create(advancePayment=advancePayment, securityDeposit=securityDeposit, minimumStay=minimumStay, utilityPayment=utilityPayment)
133             user = account.objects.filter(id=request.user.account.id)
134             instance = listing.objects.create(description=description, price=price, capacity=capacity, dimension=dimension, type=type,
135                                              address=listingAddress.objects.filter(houseNumber=houseNumber).last(),
136                                              terms=paymentTerms.objects.filter(advancePayment=advancePayment).last(),
137                                              images = imageGallery.objects.last(),
138                                              features=listingFeatures.objects.last())
139             instance.landowner.set(user)
140             listingID = listing.objects.filter(landowner=request.user.account).last()
141             form = imageForm(request.POST, request.FILES, instance = listingID)
142
143             if form.is_valid():
144                 form.save()
145                 messages.success(request, f'Property successfully listed.')
146                 return redirect('index')
147
148             else:
149                 form=imageForm()
150                 gform=galleryForm()
151                 context = { 'form': form, 'gform': gform}
152                 return render(request, "cribconnect/listproperty.html", context)
153
154
155     def createaccount(request):
156         form = createUser()
157
158         if request.method == "POST":
159             form = createuser(request.POST)
160
161             if form.is_valid():
162                 form.save()
163                 messages.success(request, f'Account successfully created.')
164                 return redirect('index')
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
```

```
    if form.is_valid():
        form.save()
        return HttpResponseRedirect(reverse("index"))
    else:
        form = profileForm()

    return render(request, "cribconnect/accountform.html", {'form': form})

def logout_view(request):
    logout(request)
    return render(request, "cribconnect/guest.html")
```

The screenshot shows a code editor interface with a dark theme. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, Help, and a search bar labeled 'finals'. The left sidebar contains icons for file operations like Open, Save, Find, and others. The main workspace displays a Python script named 'main.py' with the following content:

```
settings.py  __init__.py  guest.html  - Settings
crbconnect > templates > crbconnect > guest.html > HTML > head > script
1 (% load static %)
2
3
4 <!DOCTYPE html>
5 <html lang="en">
6 <head>
7     <meta charset="UTF-8">
8     <meta name="viewport" content="width=device-width, initial-scale=1.0">
9     <title>Homepage - CribConnect</title>
10    <link rel="stylesheet" href="{% static 'ccapp/index.css' %}">
11
12    <script>
13        function showLogin(){
14            document.querySelector('.login-container').style.display = 'block';
15        }
16        function closeLogin(){
17            document.querySelector('.login-container').style.display = 'none';
18        }
19    </script>
20    <style>
21        .alert {
22            padding: 20px;
23            background-color: #sliceblue;
24            border-radius: 10px;
25            color: black;
26            margin-bottom: 15px;
27            position: absolute;
28            margin-left: 220px;
29            transform: translateX(200%);
30            font-size: bold;
31        }
32        .closebtn {
33            margin-left: 15px;
34            color: black;
35            font-weight: bold;
36            float: right;
37            font-size: 22px;
38            line-height: 20px;
39            cursor: pointer;
40        }
41        .closebtn:hover {
```

The screenshot shows a code editor interface with two tabs open: `guest.html` and `settings.py`. The `guest.html` file contains the following code:

```
5 <html lang="en">
6 <head>
7     <style>
8         ...
9     </style>
10    </head>
11    <body>
12        <header>
13            <div class="logo">
14                <a href="#">CribConnect</a>
15            <div class="search-container" style="margin-left: 70px">
16                <input type="search" placeholder="Search">
17                <button type="click">Search</button>
18            </div>
19        </div>
20        {% if messages %}
21        {% for message in messages %}
22            {% if message == "Invalid credentials, please try again." %}
23                <div class="alert" style="background-color: #e0e0e0; color: black; padding: 5px; border-radius: 5px; margin-bottom: 10px">
24                    <span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
25                    {{ message }}
26                </div>
27            {% else %}
28                <div class="alert">
29                    <span class="closebtn" onclick="this.parentElement.style.display='none';">&times;</span>
30                    {{ message }}
31                </div>
32            {% endif %}
33        {% endfor %}
34        {% endif %}
35    <nav>
36        <ul class="nav-list">
37            <li><a href="#">CribShare</a></li>
38            <li><a href="{% url 'propertylisting' %}">List your Property</a></li>
39            <li><a href="#">Features</a></li>
40            <li><a href="#">How it works</a></li>
41            <li><a href="#">About Us</a></li>
42            <li><a href="#">Contact Us</a></li>
43        <div class="login-button">
44            <button type="button" onclick="showLogin()">Log In</button>
45        </div>
46    </nav>
47
```

```
File Edit Selection View Go Run Terminal Help ← → ⚡ finals
settings.py _init_.py guesthtml Settings
criconnect > templates > criconnect > guest.html > html > head > script
5   <html lang="en">
6     <body>
7       <main>
8         <div class="login-container">
9           <form action="{% url 'guest' %}" method="post">
10             ...
11               <span class="psw"><a href="#" style="margin: 20px; font-size: small;">Forgot password?</a></span>
12             ...
13             <div>
14               <a href="{% url 'createaccount' %}">
15                 <button type="button" class="createbtn" style="cursor: pointer;">Create Account</button>
16               ...
17             </div>
18           </form>
19         </div>
20       </main>
21     </div>
22   <section class="featured-listings">
23     <a href="#" class="caption" style="font-weight: bold;">Featured Listings
```



```
File Edit Selection View Go Run Terminal Help
settings.py _init_.py guesthtml x Settings
cribconnect > templates > cribconnect > guesthtml > html > head > script
5 <html lang="en">
46 <body>
209 | </div>
209 </footer>
210 <div class="footer-container">
211   <div class="footer-column">
212     <h3>ABOUT</h3>
213     <ul>
214       <li><a href="#">About Us</a></li>
215       <li><a href="#">Privacy Policy</a></li>
216       <li><a href="#">Careers</a></li>
217       <li><a href="#">Terms & Conditions</a></li>
218     </ul>
219   </div>
220   <div class="footer-column">
221     <h3>SERVICES</h3>
222     <ul>
223       <li><a href="#">CribShare</a></li>
224       <li><a href="#">List Your Property</a></li>
225       <li><a href="#">Features</a></li>
226       <li><a href="#">How it Works</a></li>
227       <li><a href="#">Contact Us</a></li>
228     </ul>
229   </div>
230   <div class="footer-column">
231     <h3>FOLLOW US</h3>
232     <ul>
233       <li><a href="#">Twitter</a></li>
234       <li><a href="#">Facebook</a></li>
235       <li><a href="#">YouTube</a></li>
236       <li><a href="#">Pinterest</a></li>
237     </ul>
238   </div>
239   <div class="footer-column">
240     <h3>OTHER</h3>
241     <ul>
242       <li><a href="#">Video Tutorial</a></li>
243       <li><a href="#">Vlogs & Ideas</a></li>
244     </ul>
245   </div>

```

```
File Edit Selection View Go Run Terminal Help
settings.py createaccounthtml x Settings
cribconnect > templates > cribconnect > createaccount.html ...
1 [% load static %]
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6   <meta charset="UTF-8">
7   <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   <title>Create Account - CribConnect</title>
9   <link rel="stylesheet" href="[% static 'ccapp/createaccount.css' %]">
10  <script>
11    function validatePasswords() {
12      var password = document.getElementById("password").value;
13      var confirmPassword = document.getElementById("confirmPassword").value;
14
15      if (password !== confirmPassword) {
16        alert("Passwords do not match. Please try again.");
17        return false;
18      }
19      else {
20        alert("Account Successfully Created");
21        return true;
22      }
23    }
24
25  </script>
26 </head>
27 <body>
28   <div class="account-container">
29     <div class="account-header">
30       
```

File Edit Selection View Go Run Terminal Help

accountform.html

```

1  {% load static %}
2
3  <!DOCTYPE html>
4  <html lang="en">
5  <head>
6      <meta charset="UTF-8">
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <title>Create Account - CribConnect</title>
9      <link rel="stylesheet" href="{% static 'capp/createaccount.css' %}">
10 </head>
11 <body>
12     <div class="account-container">
13         <div class="account-header">
14              
15             <h2>Create Account</h2>
16         </div>
17         <form class="account-form" method="post" autocomplete="off" enctype="multipart/form-data">
18             {% csrf_token %}
19             <input type="text" id="first_name" name="first_name" placeholder="First Name" required>
20             <input type="text" id="last_name" name="last_name" placeholder="Last Name" required>
21             <span>Gender: </span><select id="gender" name="gender" placeholder="Gender", style="margin-bottom: 10px;" required>
22                 <option value="Male">Male</option>
23                 <option value="Female">Female</option>
24             <input type="number" id="age" name="age" placeholder="Age" required>
25             <input type="number" id="phoneNumber" name="phoneNumber" placeholder="Phone Number" required>
26             <input type="email" id="email" name="email" placeholder="Email" required>
27             <div>
28                 {{ form }}<br/>
29             </div>
30             <div style="column-count: 2;">
31                 <input type="checkbox" id="is_landowner" name="is_landowner" value="True" style="transform: translate(-47%);><p style="transform: translate(-94%);>Landowner</p>
32             </div>
33             <button type="submit" class="submit-button">Submit</button>
34         </form>
35     </div>
36 </body>
37 </html>

```

File Edit Selection View Go Run Terminal Help

index.html

```

1  {% load static %}
2
3  <!DOCTYPE html>
4  <html lang="en">
5  <head>
6  </head>
7  <body>
8      <header>
9          <div class="logo">
10             <a href="#">CribConnect</a>
11         </div>
12         <div class="search-container" style="margin-left: 70px;">
13             <input type="search" placeholder="Search" name="searchval">
14             <button type="submit">Search</button>
15         </div>
16     </header>
17     <nav>
18         <ul class="nav-list">
19             <li><a href="{% url 'cribshare' %}">CribShare</a></li>
20             <li><a href="{% url 'propertylisting' %}">List your Property</a></li>
21             <li><a href="#">Features</a></li>
22             <li><a href="#">How it works</a></li>
23             <li><a href="#">About Us</a></li>
24             <li><a href="#">Contact Us</a></li>
25             <div class="login-button">
26                 <a href="{% url 'module' %}" style="text-decoration: none;">
27                     <button type="button">
28                         {% if account.profilePicture %}
29                             
30                         {% else %}
31                             
32                         {% endif %}
33                         {{ user.username }}</a>
34                     </button>
35                 </div>
36             </li>
37         </ul>
38     </nav>
39     <div class="content">
40         <h1>Welcome to CribConnect!</h1>
41         <p>Your one-stop shop for finding and sharing cribs!</p>
42         <p>Get started by creating an account or logging in below.</p>
43         <div>
44             <button type="button" class="cta-button">Create Account</button>
45             <button type="button" class="cta-button">Log In</button>
46         </div>
47     </div>
48 </body>
49 </html>

```

```
File Edit Selection View Go Run Terminal Help index.html M
settings.py Settings
cribconnect > templates > cribconnect > index.html > html > body > header > div.logo > form
6   <html lang="en">
13   <body>
14     <header>
15       <nav>
16         <ul class="nav-list">
17           |   <li><a href="#">Home</a></li>
18           |   <li><a href="#">About</a></li>
19           |   <li><a href="#">Contact</a></li>
20         </ul>
21       </nav>
22     </header>
23     <main>
24       {% if messages %}
25         {% for message in messages %}
26           <div class="alert">
27             <span class="closebtn" onclick="this.parentElement.style.display='none';>&times;</span>
28             {{ message }}
29           </div>
30         {% endfor %}
31       {% endif %}
32       <section class="featured-listings">
33         <a href="#" class="caption" >Featured Listings</a>
34         <!-- Placeholder for featured listing image -->
35         <a href="#">
36           
37         </a>
38         <!-- Carousel indicators -->
39         <ul class="carousel-indicators">
40           <li class="active"></li>
41           <li></li>
42           <li></li>
43           <li></li>
44           <li></li>
45           <!-- Other indicators -->
46         </ul>
47       </section>
48     </main>
49     <div class="container">
50       <div class="listings">
51         <!-- Repeat this block for each listing -->
52       </div>
53     </div>
54   </body>
55 </html>
```

```
File Edit Selection View Go Run Terminal Help index.html M
settings.py Settings
cribconnect > templates > cribconnect > index.html > html > body > div.logo > form
6   <html lang="en">
13   <body>
14     <div class="container">
15       <div class="listings">
16         <!-- Repeat this block for each listing -->
17         {% for listing in listings %}
18           <div class="listing">
19             <a href="{% url 'listingpage' listing.id %}">
20               
21             <div class="info">
22               <p class="price" style="font-size: larger;">$ {{ listing.price }}
23               <p class="city" style="color: #white; font-size: medium;">{{ listing.address.municipality }} City
24               <p class="details">{{ listing.description }}
25             </div>
26           </a>
27         </div>
28         {% endfor %}
29         <!-- ... more listings ... -->
30       </div>
31       <div class="view-all">
32         <button>View all</button>
33       </div>
34     </div>
35     <!-- Pagination -->
36     <div class="pagination">
37       <a href="#">&lt;&gt; Previous</a>
38       <a href="#" class="active">1</a>
39       <a href="#">2</a>
40       <a href="#">3</a>
41       <a href="#">Next &gt;&lt;&gt;</a>
42     </div>
43     <!-- Categories -->
44     <div class="category-title">Categories</div>
45     <div class="categories">
46       <div class="category">
47         
48         <div class="category-name">Category</div>
49       </div>
50       <!-- Repeat for each category -->
51     </div>
52   </body>
53 </html>
```

The screenshot shows a code editor with the file 'index.html' open. The code is structured as follows:

```
<html lang="en">
  <head>
    ...
  </head>
  <body>
    ...
    <div class="header">
      ...
    </div>
    <div class="content">
      ...
    </div>
    <div class="footer">
      <div class="footer-container">
        <div class="about">
          <ul>
            <li><a href="#">About Us</a></li>
            <li><a href="#">Privacy Policy</a></li>
            <li><a href="#">Careers</a></li>
            <li><a href="#">Terms & Conditions</a></li>
          </ul>
        </div>
        <div class="services">
          <h3>SERVICES</h3>
          <ul>
            <li><a href="#">CribShare</a></li>
            <li><a href="#">List Your Property</a></li>
            <li><a href="#">Features</a></li>
            <li><a href="#">How it Works</a></li>
            <li><a href="#">Contact Us</a></li>
          </ul>
        </div>
        <div class="follow-us">
          <h3>FOLLOW US</h3>
          <ul>
            <li><a href="#">Twitter</a></li>
            <li><a href="#">Facebook</a></li>
            <li><a href="#">YouTube</a></li>
            <li><a href="#">Pinterest</a></li>
          </ul>
        </div>
        <div class="other">
          <h3>OTHER</h3>
          <ul>
            <li><a href="#">Video Tutorial</a></li>
            <li><a href="#">Vlogs & Ideas</a></li>
          </ul>
        </div>
      </div>
    </div>
  </body>
</html>
```

File Edit Selection View Go Run Terminal Help

settings.py    Settings    module2.html

```
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div#content5.container-content > p.edit-details > form
```

```
1  {% load static %} 
2 
3  <!DOCTYPE html>
4  <html lang="en">
5  <head>
6  <meta charset="UTF-8">
7  <meta name="viewport" content="width=device-width, initial-scale=1.0">
8  <title>My Profile - CribConnect</title>
9  <link rel="stylesheet" href="{% static 'ccapp/module.css' %}">
10 <script>
11     function showContent(content){
12         document.querySelectorAll('.container-content').forEach(div => {
13             div.style.display = 'none';
14         });
15         document.querySelector(`#${content}`).style.display = 'block';
16     }
17 
18     document.addEventListener('DOMContentLoaded', function(){
19         document.querySelectorAll('.nav-container button').forEach(button => {
20             button.onclick = function(){
21                 showContent(this.dataset.content), activeButton(this.id)
22             }
23         });
24     });
25     function activeButton(activeBtn){
26         document.querySelectorAll('.nav-container button').forEach(button =>{
27             button.className = 'none';
28         });
29         document.querySelector(`#${activeBtn}`).className = "active";
30     }
31     function showRateForm(){
32         document.querySelector(".rating-container").style.display = 'block';
33     };
34     function closeRating(){
35         document.querySelector(".rating-container").style.display = 'none';
36     };
37     function showRateForm2(){
38         document.querySelector(".rating-container2").style.display = 'block';
39     };
40     function closeRating2(){
41         document.querySelector(".rating-container2").style.display = 'none';
42     };
43 </script>
44 <style>
45     [title=>star]{
46         color: #goldenrod;
47     }
48     [title=>upload]{
49         border: solid #white;
50         border-radius: 5px;
51         background-color: # white;
52     }
53     [title=>nostar]{
54         color: #white;
55     }
56     .closebtn {
57         margin-right: 15px;
58         color: #black;
59         font-weight: bold;
60         float: right;
61         font-size: 22px;
62         line-height: 20px;
63         cursor: pointer;
64         transition: 0.3s;
65     }
66     .closebtn:hover {
67         color: #white;
68     }
69 </style>
70 </head>
71 <body>
72     <header>
73         <div class="logo">
74             <a href="/" style = "color: #white;">CribConnect</a>
75         </div>

```

Line 36, Col 35   Spaces 4   UTF-8   CREF   HTML

```
File Edit Selection View Go Run Terminal Help ⌘ F module2.html
settings.py Settings module2.html
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div#content5.container-content > p.edit-details > form
    4 <html lang="en">
    5   <head>
    6     ...
    7   </head>
    8   <body>
    9     <header>
    10       <div class="logo">
    11         <a href="/" style="color: white;">CribConnect</a>
    12       </div>
    13       <div class="logout-button">
    14         <form method="post" action="{% url 'logout' %}">
    15           {% csrf_token %}
    16           <button type="submit">Logout</button>
    17         </form>
    18       </div>
    19     </header>
    20     <main>
    21       <div class="rating-container">
    22         <div class="logo-container">
    23           <div class="logo">
    24             <a>Rating/Review</a>
    25             <button type="button" class="close" onclick="closeRating()">&times;</button>
    26           </div>
    27         </div>
    28         <form method="post">
    29           {% csrf_token %}
    30           <div class="container-r">
    31             <div style="margin-bottom: 10px;">
    32               <label for="rating"><b>Rating:</b></label>
    33               <input type="number" name="user-rating" id="user-rating" min="1" max="5" value="1"><span> star/s</span>
    34             </div>
    35             <label for="review"><b>Review:</b><span> margin-top: 20px;</span></label>
    36             <div style="margin-top: 5px;">
    37               <textarea rows="4" cols="50" name="user-review" id="review" placeholder="Enter Your Review Message Here" style="object-position: bottom;"></textarea>
    38             </div>
    39             <button type="submit" class="rate-button" style="cursor: pointer; margin-top: 20px;">Submit</button>
    40           </div>
    41         </form>
    42       </div>
    43     </div class="rating-container2">
    44       <div class="logo-container">
```

```
File Edit Selection View Go Run Terminal Help ⌘ F module2.html
settings.py Settings module2.html
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div#content5.container-content > p.edit-details > form
    4 <html lang="en">
    5   <body>
    6     ...
    7     <main>
    8       <div class="rating-container">
    9         </div>
    10       <div class="rating-container2">
    11         <div class="logo-container">
    12           <div class="logo">
    13             <a>Rating/Review</a>
    14             <button type="button" class="close" onclick="closeRating2()">&times;</button>
    15           </div>
    16         </div>
    17         <form method="post">
    18           {% csrf_token %}
    19           <div class="container-r">
    20             <div style="margin-bottom: 10px;">
    21               <label for="rating"><b>Rating:</b></label>
    22               <input type="number" name="property-rating" id="user-rating" min="1" max="5" value="1"><span> star/s</span>
    23             </div>
    24             <label for="review"><b>Review:</b><span> margin-top: 20px;</span></label>
    25             <div style="margin-top: 5px;">
    26               <textarea rows="4" cols="50" name="property-review" id="review" placeholder="Enter Your Review Message Here" style="object-position: bottom;"></textarea>
    27             </div>
    28             <button type="submit" class="rate-button" style="cursor: pointer; margin-top: 20px;">Submit</button>
    29           </div>
    30         </form>
    31       </div>
    32     </div class="profile-container">
    33     {% if account.profilePicture %}
    34       
    35     {% else %}
    36       
    37     {% endif %}
    38     <ul>
    39       <li style="font-size: x-large; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    40         {{ user.first_name }} {{ user.last_name }}
    41       </li>
    42     </ul>
    43   </div>
```

```
File Edit Selection View Go Run Terminal Help
settings.py  module2.html
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div.content5.container-content > p.edit-details > form
    4 <html lang="en">
    71 <body>
    131     <div class="profile-container">
    137         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    138             <li>{{ user.first_name }} {{ user.last_name }}</li>
    140         </ul>
    141         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    142             <% if account.is_verified != 0 %>
    143                 Verified
    144             <% else %>
    145                 Unverified
    146             <% endif %>
    147         </ul>
    148         <li style="margin-top: 5px;">
    149             {{ account.phoneNumber }}</li>
    150         <li>
    151             {{ user.email }}</li>
    152         </ul>
    154     </div>
    155 </main>
    157     <div class="container">
    158         <div class="nav-container">
    159             <ul style="margin-top: 50px">
    160                 <li><button class="active" data-content="content1" id="bttnum1">Properties</button></li>
    161                 <li><button data-content="content2" id="bttnum2">Inquiry Requests</button></li>
    162                 <li><button data-content="content3" id="bttnum3">Rating & Review</button></li>
    163                 <li><button data-content="content4" id="bttnum4">Account Verification</button></li>
    164                 <li style="margin-top: 70px"><button data-content="content5" id="bttnum5">Edit Account Information</button></li>
    165             </ul>
    166         </div>
    167     </div>
    168     <div class="content5">
    169         <div class="content5-content" id="content1" style="display: block;">
    170             <h1>All Properties</h1>
    171             <% for listing in listings %>
    172                 <a href="#">
    173                     
    174                     <p><span id="description">{{ listing.description }}</span></p>
    175                     <p>Type: <span id="type">{{ listing.type }}</span></p>
    176                     <p>Tenants: <span id="tenant_count">{{ tenants_count }}</span></p>
    177                     <p>Rating:</span>
    178                     <% if ratingL.rating == none %>
    179                         <span>N/A</span>
    180                     <% elif ratingL.rating == 1 %>
    181                         <span class="stars" title="1 star">★</span><span title="4 nostar">★★★★</span>
    182                     <% elif ratingL.rating == 2 %>
    183                         <span class="stars" title="2 star">★★</span><span title="3 nostar">★★★</span>
    184                     <% elif ratingL.rating == 3 %>
    185                         <span class="stars" title="3 star">★★★</span><span title="2 nostar">★★</span>
    186                     <% elif ratingL.rating == 4 %>
    187                         <span class="stars" title="4 star">★★★★</span><span title="1 nostar">★</span>
    188                     <% elif ratingL.rating == 5 %>
    189                         <span class="stars" title="5 star">★★★★★</span>
    190                     <% endif %>
    191                 </a>
    192             <% endfor %>
    193         </div>
    194     </div>
    195     <div class="content5-content" id="content2" style="display: none;">
    196         <h2>Inquiry Requests</h2>
    197         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    198             <% for request in inquiry_requests %>
    199                 <li>{{ request.user }} - {{ request.message }}</li>
    200             <% endfor %>
    201         </ul>
    202     </div>
    203     <div class="content5-content" id="content3" style="display: none;">
    204         <h2>Rating & Review</h2>
    205         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    206             <% for review in reviews %>
    207                 <li>{{ review.user }} - {{ review.rating }}</li>
    208             <% endfor %>
    209         </ul>
    210     </div>
    211     <div class="content5-content" id="content4" style="display: none;">
    212         <h2>Account Verification</h2>
    213         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    214             <% for verification in verifications %>
    215                 <li>{{ verification.user }} - {{ verification.status }}</li>
    216             <% endfor %>
    217         </ul>
    218     </div>
    219     <div class="content5-content" id="content5" style="display: none;">
    220         <h2>Edit Account Information</h2>
    221         <form method="post">
    222             <% csrf_token %>
    223             <input type="hidden" name="delete-listing" value="{{ listing.id }}>
    224             <button type="submit" class="closebtn" onclick="alert('listing successfully removed.')&times;></button>
    225         </form>
    226     </div>
    227 </div>
    228 </body>
    229 </html>
```

```
File Edit Selection View Go Run Terminal Help
settings.py  module2.html
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div.content5.container-content > p.edit-details > form
    4 <html lang="en">
    71 <body>
    131     <div class="profile-container">
    137         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    138             <li>{{ user.first_name }} {{ user.last_name }}</li>
    140         </ul>
    141         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    142             <% if account.is_verified != 0 %>
    143                 Verified
    144             <% else %>
    145                 Unverified
    146             <% endif %>
    147         </ul>
    148         <li style="margin-top: 5px;">
    149             {{ account.phoneNumber }}</li>
    150         <li>
    151             {{ user.email }}</li>
    152         </ul>
    154     </div>
    155 </main>
    157     <div class="container">
    158         <div class="nav-container">
    159             <ul style="margin-top: 50px">
    160                 <li><button class="active" data-content="content1" id="bttnum1">Properties</button></li>
    161                 <li><button data-content="content2" id="bttnum2">Inquiry Requests</button></li>
    162                 <li><button data-content="content3" id="bttnum3">Rating & Review</button></li>
    163                 <li><button data-content="content4" id="bttnum4">Account Verification</button></li>
    164                 <li style="margin-top: 70px"><button data-content="content5" id="bttnum5">Edit Account Information</button></li>
    165             </ul>
    166         </div>
    167     </div>
    168     <div class="content5">
    169         <div class="content5-content" id="content1" style="display: block;">
    170             <h1>All Properties</h1>
    171             <% for listing in listings %>
    172                 <a href="#">
    173                     
    174                     <p><span id="description">{{ listing.description }}</span></p>
    175                     <p>Type: <span id="type">{{ listing.type }}</span></p>
    176                     <p>Tenants: <span id="tenant_count">{{ tenants_count }}</span></p>
    177                     <p>Rating:</span>
    178                     <% if ratingL.rating == none %>
    179                         <span>N/A</span>
    180                     <% elif ratingL.rating == 1 %>
    181                         <span class="stars" title="1 star">★</span><span title="4 nostar">★★★★</span>
    182                     <% elif ratingL.rating == 2 %>
    183                         <span class="stars" title="2 star">★★</span><span title="3 nostar">★★★</span>
    184                     <% elif ratingL.rating == 3 %>
    185                         <span class="stars" title="3 star">★★★</span><span title="2 nostar">★★</span>
    186                     <% elif ratingL.rating == 4 %>
    187                         <span class="stars" title="4 star">★★★★</span><span title="1 nostar">★</span>
    188                     <% elif ratingL.rating == 5 %>
    189                         <span class="stars" title="5 star">★★★★★</span>
    190                     <% endif %>
    191                 </a>
    192             <% endfor %>
    193         </div>
    194     </div>
    195     <div class="content5-content" id="content2" style="display: none;">
    196         <h2>Inquiry Requests</h2>
    197         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    198             <% for request in inquiry_requests %>
    199                 <li>{{ request.user }} - {{ request.message }}</li>
    200             <% endfor %>
    201         </ul>
    202     </div>
    203     <div class="content5-content" id="content3" style="display: none;">
    204         <h2>Rating & Review</h2>
    205         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    206             <% for review in reviews %>
    207                 <li>{{ review.user }} - {{ review.rating }}</li>
    208             <% endfor %>
    209         </ul>
    210     </div>
    211     <div class="content5-content" id="content4" style="display: none;">
    212         <h2>Account Verification</h2>
    213         <ul style="list-style-type: none; padding-left: 0; margin-top: 10px; margin-bottom: 10px; font-weight: bold;">
    214             <% for verification in verifications %>
    215                 <li>{{ verification.user }} - {{ verification.status }}</li>
    216             <% endfor %>
    217         </ul>
    218     </div>
    219     <div class="content5-content" id="content5" style="display: none;">
    220         <h2>Edit Account Information</h2>
    221         <form method="post">
    222             <% csrf_token %>
    223             <input type="hidden" name="delete-listing" value="{{ listing.id }}>
    224             <button type="submit" class="closebtn" onclick="alert('listing successfully removed.')&times;></button>
    225         </form>
    226     </div>
    227 </div>
    228 </body>
    229 </html>
```

```
File Edit Selection View Go Run Terminal Help
settings.py  module2.html
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div.content5.container-content > p.edit-details > form
    4 <html lang="en">
    71 <body>
    157     <div class="container">
    177         <div class="container-content" id="content1" style="display:block">
    180             <a href="#">
    208                 <% csrf_token %>
    209                 <input type="hidden" name="delete-listing" value="{{ listing.id }}">
    210                 <button type="submit" class="closebtn" onclick="alert('listing successfully removed.')">&times;</button>
    211             </form>
    212         </a>
    213     <% endfor %>
    214 </div>
    215     <div class="container-content" id="content2">
    216         <h1>All Requests</h1>
    217         <% for inquiry in requests %>
    218         <% if inquiry.to(userID == account) %>
    219         <% if inquiry.requestStatus == "Pending" %>
    220             <a href="#">
    221                 
    222                 <p>
    223                     <span id="description">{{ inquiry.listingID.description }}</span>
    224                 </p>
    225                 <p>
    226                     <span title="requestor name">
    227                         <% if inquiry.from.userID == all_ratingU.to.userID %>
    228                             {{ all_ratingU.rating }}
    229                             <span title="star">★</span>
    230                         <% endif %>
    231                         {{ inquiry.from.userID.user.first_name }} {{ inquiry.from.userID.user.last_name }}
    232                     </span>
    233                 </p>
    234                 <p>
    235                     <span id="gender">{{ inquiry.from.userID.gender }}</span>
    236                 </p>
    237                 <p>
    238                     <span title="request type"> Type: {{ inquiry.requestType }}</span>
    239                 </p>
    240                 <form method="post">
    241                     <% csrf_token %>
    242                     <p class="request-button">
```

```
File Edit Selection View Go Run Terminal Help
settings.py  module2.html
cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div.content5.container-content > p.edit-details > form
    4 <html lang="en">
    71 <body>
    157     <div class="container">
    215         <div class="container-content" id="content2">
    220             <a href="#">
    243                 <input type="hidden" name="inquiryid" value="{{ inquiry.id }}"/>
    244                 <button type="submit" name="response" value="Accepted">
    245                     
    246                 </button>
    247                 <button type="submit" name="response" value="Rejected">
    248                     
    249                 </button>
    250             </p>
    251         </form>
    252     </a>
    253     <% endif %>
    254     <% elif inquiry.from.userID == account %>
    255         <a href="#">
    256             
    257             <p>
    258                 <span id="description">{{ inquiry.listingID.description }}</span>
    259             </p>
    260             <p>
    261                 <span title="receiver name">
    262                     <% if inquiry.from.userID == all_ratingU.to.userID %>
    263                         {{ all_ratingU.rating }}
    264                         <span title="star">★</span>
    265                     <% endif %>
    266                     {{ inquiry.to.userID.user.first_name }} {{ inquiry.to.userID.user.last_name }}
    267                 </span>
    268             </p>
    269             <p>
    270                 <span id="gender">{{ inquiry.to.userID.gender }}</span>
    271             </p>
    272             <p>
    273                 <span title="request type">Type: {{ inquiry.requestType }}</span>
    274             </p>
    275             <p>
    276                 <span title="request status">Status: {{ inquiry.requestStatus }}</span>
    277             </p>
```

```
File Edit Selection View Go Run Terminal Help ← → ⚡ finals

settings.py Settings module2.html x
cnrconnect > templates > cnrconnect > module2.html > HTML > body > div.container > div#content5.container-content > p.edit-details > form
  4   <html lang="en">
  5   <body>
  6     <div class="container">
  7       <div class="container-content" id="content2">
  8         <a href="#">
  9           ...
 10           <span title="request status">Status: {{ inquiry.requestStatus }}</span>
 11         </a>
 12       <% endif %>
 13       <% endfor %>
 14     </div>
 15     <div class="container-content" id="content3">
 16       <h1>Rating & Review:</h1>
 17       <h3>To Rate/Review:</h3>
 18       <% for tenant in tenants %>
 19         <a href="#">
 20           ...
 21           <span title="tenant.userID.profilePicture %}>
 22             
 23           <% else %>
 24             
 25           <% endif %>
 26           ...
 27           <span id="fullname">{{ tenant.userID.user.first_name }} {{tenant.userID.user.last_name}}</span>
 28         </a>
 29         ...
 30         <span title="aparment details">{{ tenant.listingID.description }}</span>
 31       </p>
 32       ...
 33       Type: <span>{{ tenant.listingID.type }}</span>
 34     </p>
 35     ...
 36     <div class="rating-button">
 37       <button type="button" onclick="showRateForm()">
 38         Rate/Review
 39       </button>
 40     </div>
 41   </p>
 42 </a>
 43 <% endfor %>
 44 <% for listing in rlisting %>
```

```
File Edit Selection View Go Run Terminal Help ↵ finals

settings.py settings module2.html
cnrconnect > templates > cnrconnect > module2.html > HTML > body > div.container > div#content5.container-content > p.edit-details > form
  4   <html lang="en">
  5     <body>
  6       <div class="container">
  7         <div class="container-content" id="content3">
  8           <a href="#">
  9             </a>
 10            (% endif %)
 11            (% for listing in rlisting %)
 12            (% if listing %)
 13              <a href="#">
 14                
 15                <div>
 16                  <p>
 17                    <span id="rdescription">{{ listing.description }}</span>
 18                  </p>
 19                </div>
 20                <p>
 21                  Price: <span>{{ listing.price }}</span>
 22                </p>
 23                <p>
 24                  Type: <span>{{ listing.type }}</span>
 25                </p>
 26                <p>
 27                  <button type="button" onclick="showRateForm2()">
 28                    Rate/Review
 29                  </button>
 30                </p>
 31            </a>
 32            (% else %)
 33            (% endif %)
 34            (% endfor %)
 35        </div>
 36        <div class="container-content" id="content4">
 37          <h1>Account Verification</h1>
 38          <form method="post" enctype="multipart/form-data">
 39            (% csrf_token %)
 40            <p class="upload-id">
 41              <span>Upload your ID here for verification: {{ id_form.as_p }} <button type="submit">Upload</button></span>
 42            </p>
 43          </form>
 44        </div>
 45      </div>
 46    </body>
 47  </html>
```

File Edit Selection View Go Run Terminal Help

settings.py    module2.html

```

cribconnect > templates > cribconnect > module2.html > HTML > body > div.container > div#content5.container-content > p.edit-details > form
    4   <html lang="en">
    7   <body>
  157     <div class="container">
  158       <div class="container-content" id="content4">
  159         <h1>Account Verification</h1>
  160         <form method="post" enctype="multipart/form-data">
  161           {% csrf_token %}
  162           <p class="upload-id">
  163             | <span>Upload your ID here for verification: {{ id_form.as_p }} <button type="submit">Upload</button></span>
  164           </p>
  165         </form>
  166       </div>
  167       <div class="container-content" id="content5">
  168         <h1>Edit Account Information</h1>
  169         <form method="post">
  170           {% csrf_token %}
  171           <p class="edit-details">
  172             | <span>Phone Number: </span> <input type="number" id="phone-number" name="editPhone" placeholder="{{ account.phoneNumber }}"><button type="submit">Update</button>
  173           </p>
  174         </form>
  175         <form method="post">
  176           {% csrf_token %}
  177           <p class="edit-details">
  178             | <span>Email Address: </span> <input type="text" id="email-address" name="editEmail" placeholder="{{ account.user.email }}"><button type="submit">Update</button>
  179           </p>
  180         </form>
  181         <p class="edit-details">
  182           <form type="post" enctype="multipart/form-data">
  183             {% csrf_token %}
  184             | {{ pic_form }}<br/>
  185             | <button type="submit"><input type="hidden" name="dp" value="dp">Update</button>
  186           </form>
  187         </p>
  188       </div>
  189     </div>
  190   </body>
  191 </html>
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File Edit Selection View Go Run Terminal Help

settings.py    listproperty.html

```

cribconnect > templates > cribconnect > listproperty.html > ...
  1   [% load static %]
  2
  3   <!DOCTYPE html>
  4   <html lang="en">
  5     <head>
  6       <meta charset="UTF-8">
  7       <meta name="viewport" content="width=device-width, initial-scale=1.0">
  8       <title>Create Listing</title>
  9       <link rel="stylesheet" href="[% static 'ccapp/listproperty.css' %]">
 10      </head>
 11      <script>
 12        function addImage(){
 13          document.querySelector('#imageform').style.display = 'block';
 14        };
 15      </script>
 16    <body>
 17      <div class="create-listing-container">
 18        <div class="form-header">
 19          <a href="[% url 'index' %]"></a> <!-- Replace with your logo path -->
 20          <h2 style = "color: #white">List Your Property</h2>
 21        </div>
 22        <form class="listing-form" method="post" enctype="multipart/form-data">
 23          {% csrf_token %}
 24          <div class="form-section">
 25            <label for="description">Description: </label>
 26            <input type="text" id="fulltb" name="description" placeholder="Type here">
 27          </div>
 28          <div class="form-section">
 29            <label for="address_house_number">Address:</label>
 30            <input type="text" id="houseNumber" name="houseNumber" placeholder="House no." style="width: 15%; margin-left: 0.7%;">
 31            <input type="text" id="street" name="street" placeholder="Street" style="width: 20%;">
 32            <input type="text" id="barangay" name="barangay" placeholder="Barangay" style="width: 40%;">
 33          </div>
 34          <div class="form-section">
 35            <input type="text" id="municipality" name="municipality" placeholder="Municipality" style="width: 40%; margin-left: 18.2%;">
 36            <input type="text" id="province" name="province" placeholder="Province" style="width: 40%;">
 37            <input type="text" id="postalCode" name="postalCode" placeholder="Zip Code" style="width: 20%;">
 38          </div>
 39          <div class="form-section">
 40            <input type="text" id="lat" name="lat" placeholder="Latitude" style="width: 40%; margin-left: 18.2%;">
 41            <input type="text" id="long" name="long" placeholder="Longitude" style="width: 40%; margin-left: 18.2%; border: none; border-bottom: 1px solid black; height: 15px; vertical-align: middle; margin-left: 10px;">
 42          </div>
 43        </form>
 44      </div>
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File Edit Selection View Go Run Terminal Help
settings.py Settings listproperty.html
cribconnect > templates > cribconnect > listproperty.html ...
4   <html lang="en">
16   <body>
18     <div class="create-listing-container">
23       <form class="listing-form" method="post" enctype="multipart/form-data">
29         </div>
34       <div class="form-section">
35         <input type="text" id="municipality" name="municipality" placeholder="Municipality" style="width: 40%; margin-left: 18.2%;">
36         <input type="text" id="province" name="province" placeholder="Province" style="width: 40%;">
37         <input type="text" id="postalCode" name="postalCode" placeholder="Zip Code" style="width: 20%;">
38       </div>
39       <div class="form-section">
40         <label for="price">Price:</label>
41         <input type="number" id="price" name="price" placeholder="P" style="width: 25%; margin-right: 52%;">
42       </div>
43       <div class="form-section">
44         <label for="capacity">Capacity:</label>
45         <input type="number" id="capacity" name="capacity" placeholder="0" style="width: 10%; margin-right: 67%;">
46       </div>
47       <div class="form-section">
48         <label for="dimension">Dimension:</label>
49         <input type="number" id="dimension" name="dimension" placeholder="0" style="width: 10%; margin-right: 67%;">
50       </div>
51       <div class="form-section">
52         <label for="type">Type:</label>
53         <select id="type" name="type" style="width: 25%; height: 30px;; margin-right: 57%;">
54           <option>Apartment</option>
55           <option>Bedspace</option>
56           <option>Condominium</option>
57           <option>Dorm</option>
58           <option>House</option>
59           <option>Room</option>
60           <option>Studio</option>
61         </select>
62       </div>
63       <div class="form-section">
64         {{ form.as_p }}
65       </div>
66       <div class="form-section" id="imageform" style="display: none;">
67         {{ gform }}
68       </div>
69     </div>
70   </div>
71   <button type="button" class="add-image" onclick="addImage()"><+></button>
72   <h3 style="margin-left: 10px;">Payment Terms</h3>
73   <div class="form-section">
74     <label for="advanced_payment">Advanced Payment:</label>
75     <input type="text" id="advancePayment" name="advancePayment" placeholder="P">
76   </div>
77   <div class="form-section">
78     <label for="security_deposit">Security Deposit:</label>
79     <input type="text" id="securityDeposit" name="securityDeposit" placeholder="P">
80   </div>
81   <div class="form-section">
82     <label for="minimum_stay">Minimum Stay:</label>
83     <input type="text" id="minimumStay" name="minimumStay" placeholder="Years">
84   </div>
85   <div class="form-section">
86     <label for="utility_payment">Utility Payment:</label>
87     <input type="number" id="utilityPayment" name="utilityPayment" placeholder="P">
88   </div>
89   <div class="form-section">
90     <h3 style="margin-left: 10px;">Amenities/Features</h3>
91     <h5 style="margin-left: 10px;">Add:</h5>
92   </div>
93   <div class="form-section">
94     <input type="checkbox" checked="" value="1" name="amenities" value="1"> WiFi
95     <input type="checkbox" checked="" value="2" name="amenities" value="2"> Air Conditioning
96     <input type="checkbox" checked="" value="3" name="amenities" value="3"> Laundry
97     <input type="checkbox" checked="" value="4" name="amenities" value="4"> Pet-friendly
98     <input type="checkbox" checked="" value="5" name="amenities" value="5"> Swimming Pool
99   </div>

```

```
File Edit Selection View Go Run Terminal Help
settings.py Settings listproperty.html
criconnect > templates > criconnect > listproperty.html ...
4 <html lang="en">
16 <body>
18     <div class="create-listing-container">
23         <form class="listing-form" method="post" enctype="multipart/form-data">
95             <input type="number" id="utilityPayment" name="utilityPayment" placeholder="P">
96         </div>
97         <h3 style="margin-left: 10px;">Add:</h3>
98         <div class="amenities-feature-section">
99             <div class="amenities-feature">
100                 <label for="male-only"><input type="checkbox" id="male-only" name="male-only" value="maleOnly">Male Only</label>
101             </div>
102             <div class="amenities-feature">
103                 <label for="female-only"><input type="checkbox" id="female-only" name="female-only" value="femaleOnly">Female Only</label>
104             </div>
105             <div class="amenities-feature">
106                 <label for="bathroom"><input type="checkbox" id="bathroom" name="bathroom" value="bathroom">Bathroom</label>
107             </div>
108             <div class="amenities-feature">
109                 <label for="kitchen"><input type="checkbox" id="kitchen" name="kitchen" value="kitchen">Kitchen</label>
110             </div>
111             <div class="amenities-feature">
112                 <label for="wifi"><input type="checkbox" id="wifi" name="wifi" value="wifi">Wifi</label>
113             </div>
114             <div class="amenities-feature">
115                 <label for="aircon"><input type="checkbox" id="aircon" name="aircon" value="airConditioning">Air Conditioning</label>
116             </div>
117             <div class="amenities-feature">
118                 <label for="near-transit"><input type="checkbox" id="near-transit" name="near-transit" value="nearTransit">Near Transit</label>
119             </div>
120             <div class="amenities-feature">
121                 <label for="near-laundry"><input type="checkbox" id="near-laundry" name="aircon" value="nearLaundry">Near Laundry</label>
122             </div>
123             <div class="amenities-feature">
124                 <label for="pets"><input type="checkbox" id="pets" name="aircon" value="pets">Pets</label>
125             </div>
126             <div class="amenities-feature">
127                 <label for="parking"><input type="checkbox" id="parking" name="parking" value="parking">Parking</label>
128             </div>
129             ...
130         </div>
131     </div>
132     <div class="amenities-feature-section">
133         <div class="amenities-feature">
134             <label for="wifi"><input type="checkbox" id="wifi" name="wifi" value="wifi">Wifi</label>
135         </div>
136         <div class="amenities-feature">
137             <label for="aircon"><input type="checkbox" id="aircon" name="aircon" value="airConditioning">Air Conditioning</label>
138         </div>
139         <div class="amenities-feature">
140             <label for="near-transit"><input type="checkbox" id="near-transit" name="near-transit" value="nearTransit">Near Transit</label>
141         </div>
142         <div class="amenities-feature">
143             <label for="near-laundry"><input type="checkbox" id="near-laundry" name="aircon" value="nearLaundry">Near Laundry</label>
144         </div>
145         <div class="amenities-feature">
146             <label for="pets"><input type="checkbox" id="pets" name="aircon" value="pets">Pets</label>
147         </div>
148         <div class="amenities-feature">
149             <label for="parking"><input type="checkbox" id="parking" name="parking" value="parking">Parking</label>
150         </div>
151         <div class="amenities-feature">
152             <label for="curfew"><input type="checkbox" id="curfew" name="curfew" value="curfew">Curfew</label>
153         </div>
154         <div class="amenities-feature">
155             <label for="visitor"><input type="checkbox" id="visitor" name="visitor" value="visitor">Visitor</label>
156         </div>
157         <div class="amenities-feature">
158             <label for="accessibility"><input type="checkbox" id="accessibility" name="accessibility" value="accessibility">Accessibility</label>
159         </div>
160     </div>
161     <div class="submit-section">
162         <button type="submit" class="submit-btn">Submit</button>
163     </div>
164 </body>
165 </html>
```

Ln 1 Col 1 Spaces: 4 UTT-8 CRLF HTML

```
File Edit Selection View Go Run Terminal Help
settings.py Settings listproperty.html
criconnect > templates > criconnect > listproperty.html ...
4 <html lang="en">
16 <body>
18     <div class="create-listing-container">
23         <form class="listing-form" method="post" enctype="multipart/form-data">
100         <div class="amenities-feature-section">
113             <div class="amenities-feature">
114                 <label for="wifi"><input type="checkbox" id="wifi" name="wifi" value="wifi">Wifi</label>
115             </div>
116             <div class="amenities-feature">
117                 <label for="aircon"><input type="checkbox" id="aircon" name="aircon" value="airConditioning">Air Conditioning</label>
118             </div>
119             <div class="amenities-feature">
120                 <label for="near-transit"><input type="checkbox" id="near-transit" name="near-transit" value="nearTransit">Near Transit</label>
121             </div>
122             <div class="amenities-feature">
123                 <label for="near-laundry"><input type="checkbox" id="near-laundry" name="aircon" value="nearLaundry">Near Laundry</label>
124             </div>
125             <div class="amenities-feature">
126                 <label for="pets"><input type="checkbox" id="pets" name="aircon" value="pets">Pets</label>
127             </div>
128             <div class="amenities-feature">
129                 <label for="parking"><input type="checkbox" id="parking" name="parking" value="parking">Parking</label>
130             </div>
131             <div class="amenities-feature">
132                 <label for="curfew"><input type="checkbox" id="curfew" name="curfew" value="curfew">Curfew</label>
133             </div>
134             <div class="amenities-feature">
135                 <label for="visitor"><input type="checkbox" id="visitor" name="visitor" value="visitor">Visitor</label>
136             </div>
137             <div class="amenities-feature">
138                 <label for="accessibility"><input type="checkbox" id="accessibility" name="accessibility" value="accessibility">Accessibility</label>
139             </div>
140         </div>
141         <div class="submit-section">
142             <button type="submit" class="submit-btn">Submit</button>
143         </div>
144     </div>
145 </body>
146 </html>
```

Ln 1 Col 1 Spaces: 4 UTT-8 CRLF HTML

```
File Edit Selection View Go Run Terminal Help
settings.py  Settings  viewproperty.html
cribconnect > templates > cribconnect > viewproperty.html > ...
1 [% load static %]
2
3 <!DOCTYPE html>
4 <html lang="en">
5 <head>
6     <meta charset="UTF-8">
7     <meta name="viewport" content="width=device-width, initial-scale=1.0">
8     <title>Property Listing</title>
9     <link rel="stylesheet" href="<% static 'ccapp/viewproperty.css' %>">
10    <script>
11        function showChoices(){
12            |     document.querySelector('.choice-container').style.display = 'block';
13        };
14        function closeChoices(){
15            |     document.querySelector('.choice-container').style.display = 'none';
16        };
17        function showLogin(){
18            |     document.querySelector('.login-container').style.display = 'block';
19        };
20        function closeLogin(){
21            |     document.querySelector('.login-container').style.display = 'none';
22        };
23        function showAlert(){
24            |     alert("Invalid Credentials.");
25        };
26    </script>
27    <style>
28        [title~="star"]{
29            |     color: #goldenrod;
30        }
31
32        [title~="noStar"]{
33            |     color: #gray;
34        }
35    </style>
36 </head>
37 <body>
38     <!-- Property Details -->
39     <header>
40         <div class="logo">
41             <a href="<% url 'index' %>" style="color: #white;">CribConnect</a>
42             <div class="search-container" style="margin-left: 70px">
43                 <input type="search" placeholder="Search">
44                 <button type="submit">Search</button>
45             </div>
46         </div>
47         <nav>
48             <ul class="nav-list">
49                 <li><a href="#">CribShare</a></li>
50                 <li><a href="#">List your Property</a></li>
51                 <li><a href="#">Features</a></li>
52                 <li><a href="#">How it works</a></li>
53                 <li><a href="#">About Us</a></li>
54                 <li><a href="#">Contact Us</a></li>
55             {% if request.user.is_authenticated %}
56                 <div class="login-button">
57                     <a href="<% url 'module2' %>" style="text-decoration: none;">
58                         <button type="button">
59                             {% if account.profilePicture %}
60                                 
61                             {% else %}
62                                 
63                             {% endif %}
64                             {{ user.username }}
65                         </button>
66                     </a>
67                 </div>
68             {% else %}
69                 <div class="login-button">
70                     <button type="button" onclick="showLogin()">
71                         Login
72                     </button>
73                 </div>
74             {% endif %}
75         </ul>
76     </header>
77     <!-- Main Content -->
78     <div class="main-content">
79         <h1>Property Listing</h1>
80         <p>Find your dream home or property here!</p>
81         <div class="listing-grid">
82             <div class="listing-item">
83                 <img alt="Thumbnail image of a house" style="width: 100%; height: auto; border-radius: 5px;"/>
84                 <div class="listing-info">
85                     <h2>House for Sale</h2>
86                     <p>Address: 123 Main Street, Anytown, USA</p>
87                     <p>Price: $350,000</p>
88                     <p>Bedrooms: 3</p>
89                     <p>Bathrooms: 2</p>
90                     <p>Square Feet: 1800</p>
91                     <button type="button" class="view-btn">View Details</button>
92                 </div>
93             </div>
94             <div class="listing-item">
95                 <img alt="Thumbnail image of a house" style="width: 100%; height: auto; border-radius: 5px;"/>
96                 <div class="listing-info">
97                     <h2>Apartment for Rent</h2>
98                     <p>Address: 456 Elm Street, Anytown, USA</p>
99                     <p>Price: $1200/mo</p>
100                    <p>Bedrooms: 1</p>
101                    <p>Bathrooms: 1</p>
102                    <p>Square Feet: 700</p>
103                    <button type="button" class="view-btn">View Details</button>
104                </div>
105            </div>
106        </div>
107    </div>
108    <!-- Footer -->
109    <footer>
110        <div>
111            <img alt="Footer logo" style="width: 100px; margin-bottom: 10px;"/>
112            <p>CribConnect - Your Home Marketplace</p>
113            <p>Copyright © 2024 CribConnect. All Rights Reserved.</p>
114        </div>
115    </footer>
116 </body>
117 </html>
```

```
File Edit Selection View Go Run Terminal Help
settings.py  Settings  viewproperty.html
cribconnect > templates > cribconnect > viewproperty.html > ...
4   <html lang="en">
5     <body>
6       <header>
7         <nav>
8           <ul class="nav-list">
9             <li> <a href="#">Home</a>
10            {% endif %}
11          </ul>
12        </nav>
13      </header>
14      <div class="login-container">
15        <div class="logo-container">
16          <div class="logo">
17            <a href="#">CribConnect</a>
18            <button type="button" class="close" onclick="closeLogin()"><X></button>
19          </div>
20        </div>
21        <form action="#" method="post">
22          {% csrf_token %}
23          <div class="container">
24            <div>
25              <label for="uname"><b>Username:</b></label>
26              <input type="text" placeholder="Enter Username" name="username" required>
27            </div>
28            <div>
29              <label for="psw"><b>Password:</b></label>
30              <input type="password" placeholder="Enter Password" name="password" required>
31            </div>
32            <div>
33              <button type="submit" class="loginbtn">Login</button>
34              <label>
35                <input type="checkbox" checked="checked" name="remember"> Remember me
36              </label>
37            </div>
38            <div>
39              <span class="psw"><a href="#" style="margin: 20px; font-size: small;">Forgot password?
```

```
File Edit Selection View Go Run Terminal Help
settings.py  Settings  viewproperty.html
cribconnect > templates > cribconnect > viewproperty.html > ...
4   <html lang="en">
5     <body>
6       <div class="login-container">
7         <form action="#" method="post">
8           </div>
9
10        </div>
11      </div>
12      <div class="choice-container" style="display: none;">
13        <div class="logo-container">
14          <div class="logo">
15            <a href="#">CribConnect</a>
16            <button type="button" class="close" onclick="closeChoices()"><X></button>
17          </div>
18        </div>
19        <form action="#" method="post">
20          {% csrf_token %}
21          <div class="requestbtn">
22            <button type="submit" class="request-inquiry" name="requestType" value="Standard" style="margin-right: 15px;">Standard Request</button>
23            <button type="submit" class="request-inquiry" name="requestType" value="Cribshare">Cribshare Request</button>
24          </div>
25        </form>
26      </div>
27      <div class="details-container">
28        <div class="image-collapse">
29          <div class="main-image">
30            
31          </div>
32          <div class="side-images">
33            {% if listing.images.image1 %}
34              <div class="side-image">
35                
36              </div>
37            {% else %}
38            {% endif %}
39            {% if listing.images.image2 %}
40              <div class="side-image">
41                
42              </div>
43            {% endif %}
44          </div>
45        </div>
46      </div>
47    </div>
48  </div>
49
```

The screenshot shows a code editor with a dark theme. The left sidebar contains icons for file operations like Open, Save, Find, and Replace. The main area displays a Python script for a web application. The script includes imports for `settings.py` and `Settings`, and defines a class `viewproperty.html` that extends `cribconnect.templates.cribconnect`. The class contains methods for rendering various parts of a property listing, such as price, rating, inquiry buttons, address details, and payment terms. The code uses Jinja2-style templating with `{{ }}` and `{{ listing }}` placeholders.

```
File Edit Selection View Go Run Terminal Help ← → ⌘ finals

settings.py Settings viewproperty.html x
cribconnect > templates > cribconnect > viewproperty.html ...
4   <html lang="en">
37   <body>
127       <div class="details-container">
160           <div class="price-request">
164               <div class="rating-request">
167                   <span>Rating:</span>
168                   (% if listing.rating.rating == none %)
169                   <span>N/A</span>
170                   (% elif listing.rating.rating == 1 %)
171                   <span class="stars" title="1 star">★</span><span title="no star">★★★★</span>
172                   (% elif listing.rating.rating == 2 %)
173                   <span class="stars" title="2 star">★★</span><span title="no star">★★★</span>
174                   (% elif listing.rating.rating == 3 %)
175                   <span class="stars" title="3 star">★★★</span><span title="no star">★★★</span>
176                   (% elif listing.rating.rating == 4 %)
177                   <span class="stars" title="4 star">★★★★</span><span title="no star">★</span>
178                   (% elif listing.rating.rating == 5 %)
179                   <span class="stars" title="5 star">★★★★★</span>
180                   (% endif %)
181               </div>
182           </div>
183           <button class="request-inquiry" onclick="showChoices()">Request Inquiry</button>
184       </div>
185       <div class="details-map">
186           <div>
187               <h2>Type: <span title="type">{{ listing.type }}</span></h2>
188               <p title="apartment-address">
189                   {{ listing.address.houseNumber }}, {{ listing.address.street }}, {{ listing.address.barangay }},
190                   {{ listing.address.municipality }} City, {{ listing.address.province }}
191               </p>
192               <h3>Area: <span title="area">{{ listing.dimension }}</span> sqm.</h3>
193               <h3>Payment Terms:</h3>
194               <ul>
195                   <li>
196                       Advance Payment: <span title="advance payment">{{ listing.terms.advancePayment }}</span>
197                   </li>
198                   <li>
199                       Security Deposit: <span title="security deposit">{{ listing.terms.securityDeposit }}</span>
200                   </li>
201                   (% if listing.terms.utilityPayment == 0 %)
```



File Edit Selection View Go Run Terminal Help

settings.py    Settings    viewproperty.html

```

cribconnect > templates > cribconnect > viewproperty.html > -
  4   <html lang="en">
  5     <body>
  6       <div class="header">
  7         <div class="header-left">
  8           
  9           <div class="header-left-content">
 10             <h1>CribConnect</h1>
 11             <p>Your Home, Our Focus</p>
 12           </div>
 13         </div>
 14         <div class="header-right">
 15           <ul>
 16             <li><a href="#">Home</a></li>
 17             <li><a href="#">About Us</a></li>
 18             <li><a href="#">Contact Us</a></li>
 19             <li><a href="#">FAQ</a></li>
 20             <li><a href="#">Privacy Policy</a></li>
 21             <li><a href="#">Terms & Conditions</a></li>
 22           </ul>
 23         </div>
 24       </div>
 25       <div class="content">
 26         <div class="listing">
 27           <div class="listing-image">
 28             
 29           </div>
 30           <div class="listing-details">
 31             <h2>Property Listing</h2>
 32             <p>This is a placeholder listing for demonstration purposes. Please log in or register to view actual property listings.</p>
 33             <button type="button" href="#">View Details
 34           </div>
 35         </div>
 36       </div>
 37     </div>
 38   </body>
 39 </html>
 40

```

File Edit Selection View Go Run Terminal Help

settings.py    Settings    cribshare\_view.html M

```

cribconnect > templates > cribconnect > cribshare_view.html > HTML > body > header > nav > ul.nav-list > div.login-button > a
  1  {% load static %}
  2
  3  <!DOCTYPE html>
  4  <html lang="en">
  5    <head>
  6      <meta charset="UTF-8">
  7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
  8      <title>Homepage - CribConnect</title>
  9      <link rel="stylesheet" href="{% static 'ccapp/index.css' %}">
 10    </head>
 11    <body>
 12      <header>
 13        <div class="logo">
 14          <a href="#"></a>
 15        <div class="search-container" style="margin-left: 70px;">
 16          <input type="search" placeholder="Search">
 17          <button type="click">Search</button>
 18        </div>
 19      </div>
 20      <nav>
 21        <ul class="nav-list">
 22          <li><a href="#">CribShare</a></li>
 23          <li><a href="{% url 'propertylisting' %}">List your Property</a></li>
 24          <li><a href="#">Features</a></li>
 25          <li><a href="#">How it works</a></li>
 26          <li><a href="#">About Us</a></li>
 27          <li><a href="#">Contact Us</a></li>
 28        </ul>
 29        <div class="login-button">
 30          <a href="{% url 'module' %}" style="text-decoration: none;">
 31            <button type="button">
 32              {% if account.profilePicture %}
 33                
 34              {% else %}
 35                
 36              {% endif %}
 37              {{ user.username }}
 38            </button>
 39          </a>
 40        </div>
 41      </nav>
 42    </body>
 43 </html>
 44

```

The screenshot shows a code editor interface with two tabs open: 'settings.py' and 'cribshare\_view.html'. The 'cribshare\_view.html' tab is active, displaying an HTML template with embedded Python logic (Django templating). The code includes sections for a header, a container for listings, and a pagination area. It uses classes like 'nav-list' and 'listing' for styling. The editor has a dark theme with syntax highlighting for HTML tags (red for opening, green for closing) and Python code (blue for strings, pink for variables). A sidebar on the right shows a tree view of the project structure.

```
File Edit Selection View Go Run Terminal Help
settings.py  Settings cribshare_view.html M
cribconnect > templates > cribconnect > cribshare_view.html > html > body > header > nav > ul.nav-list > div.login-button > a
4   <html lang="en">
5     <body>
6       <header>
7         <nav>
8           <ul class="nav-list">
9             <li><a href="#">Home</a>
10            <li><a href="#">About</a>
11            <li><a href="#">Contact</a>
12          </ul>
13        </nav>
14      </header>
15      <div class="container">
16        <div class="listings">
17          <!-- Repeat this block for each listing -->
18          <% for crib in cribshare %>
19            <div class="listing">
20              <a href="{% url 'listingpage' crib.listingID.id %}">
21                
22                <div class="info">
23                  <p class="price" style="font-size: larger;">{{ crib.listingID.price }}</p>
24                  <p class="city" style="color: #white; font-size: medium;">{{ crib.listingID.address.municipality }} City</p>
25                  <p class="details">{{ crib.listingID.description }}</p>
26                </div>
27              </a>
28            </div>
29          <% endfor %>
30          <!-- ... more listings ... -->
31        </div>
32        <div class="view-all">
33          <button>View all</button>
34        </div>
35      </div>
36      <!-- Pagination -->
37      <div class="pagination">
38        <a href="#">< Previous</a>
39        <a href="#" class="active">i</a>
40        <a href="#">2</a>
41        <a href="#">3</a>
42        <a href="#">Next ></a>
43      </div>
44
45      <!-- Categories -->
46
```

```
File Edit Selection View Go Run Terminal Help ← → ⚡_finals
settings.py Settings cribshare_view.html M
cribconnect > templates > cribconnect > cribshare_view.html > HTML > body > header > nav > ul.nav-list > div.login-button > a
4 <html lang="en">
5   <body>
6     <div class="pagination">
7       </div>
8
9       <!-- Categories -->
10      <div class="category-title">Categories</div>
11      <div class="categories">
12        <div class="category">
13          
14          <div class="category-name">Category</div>
15        </div>
16        <!-- Repeat for each category -->
17        <div class="category">
18          
19          <div class="category-name">Category</div>
20        </div>
21        <div class="category">
22          
23          <div class="category-name">Category</div>
24        </div>
25        <div class="category">
26          
27          <div class="category-name">Category</div>
28        </div>
29        <div class="category">
30          
31          <div class="category-name">Category</div>
32        </div>
33        <div class="category">
34          
35          <div class="category-name">Category</div>
36        </div>
37        <div class="category">
38          
39          <div class="category-name">Category</div>
40        </div>
41        <div class="category">
42          
43          <div class="category-name">Category</div>
44        </div>
45        <div class="category">
46          
47          <div class="category-name">Category</div>
48        </div>
49        <div class="category">
50          
51          <div class="category-name">Category</div>
52        </div>
53        <div class="category">
54          
55          <div class="category-name">Category</div>
56        </div>
57        <div class="category">
58          
59          <div class="category-name">Category</div>
60        </div>
61        <div class="category">
62          
63          <div class="category-name">Category</div>
64        </div>
65        <div class="category">
66          
67          <div class="category-name">Category</div>
68        </div>
69        <div class="category">
70          
71          <div class="category-name">Category</div>
72        </div>
73      </div>
74    </body>
75  </html>
76
```

# **Appendix E: Curriculum Vitae**

**KRISTINE SHYRA CARPIO**

Blk 88 Lot 5 Phase 5 Upper Bicutan, Taguig City, 1633

(+63) 948 082-8438 • shycarp@gmail.com

<https://www.linkedin.com/in/kristine-shyra-carpio-618a18214/>**KEY SKILLS:**

Customer Service • Technical Support • Data Entry • Email Management • Admin Tasks • Photo Editing  
• Content Writing • AI Tool/Websites

---

**TOOLS USED:**

Salesforce, Azure, Avaya, Twilio, Customer Service Tool, Canva, Photoshop, AI Websites

**WORK EXPERIENCE:****Customer Service Representative** **April 2021 – Present***FIS Global Solutions Philippines Inc. – Remote*

- Assisted customers through phone calls, providing prompt and friendly assistance for financial account inquiries, issue resolution, and complaint handling.
- Managed account maintenance tasks, including updating personal information, processing account changes, and addressing address/name changes or beneficiary updates.
- Educated customers about various financial products and services, explaining account types, interest rates, fees, policies, and financial documents.
- Processed financial transactions such as deposits, withdrawals, fund transfers, bill payments, and account closures.
- Identified and resolved customer issues and discrepancies, investigating account problems, initiating corrections, and ensuring satisfactory resolution.
- Ensured compliance with security, privacy protocols, and applicable laws and regulations, safeguarding customer information and preventing fraudulent activities.

**Administrative Associate****March 2019 – May 2019***Bureau of Fire Protection – Alabang (On-site)*

- Managing correspondence: ensuring timely responses or forwarding to the appropriate individuals.
- Document preparation and organization: Drafting, editing, and proofreading various documents, reports, and presentations. Maintaining electronic and physical filing systems to ensure easy retrieval of information.
- Data entry and record-keeping: Updating and maintaining databases, spreadsheets, and other records. Ensuring accuracy and confidentiality of data
- Office supply management: Ordering and managing office supplies, equipment, and inventory. Ensuring adequate stock levels and coordinating with vendors or suppliers.
- Communication and collaboration: Acting as a liaison between various departments, teams, and external parties. Facilitating effective communication and collaboration within the organization.
- Administrative support: Providing general administrative support to the team or department as needed. Assisting with miscellaneous tasks, such as filing expenses, processing invoices, or preparing reports.

**Technical Support Representative** January 2020 – March 2020

*Digibytes Internet Café – SM Bicutan (On-site)*

- Troubleshooting and Issue Resolution: Diagnosed and resolved technical issues with hardware, software, and IT systems for customers. Provided step-by-step instructions and utilized troubleshooting techniques to find solutions.
- Customer Assistance and Support: Interacted with customers through various channels to understand their technical concerns and deliver exceptional customer service. Addressed inquiries, resolved problems, and ensured customer satisfaction.
- Software and Hardware Installation: Assisted customers with the installation, configuration, and setup of software applications, operating systems, drivers, and hardware components. Provided guidance and troubleshooting support during installations.
- Remote Support: Utilized remote desktop tools to connect to customers' systems and provided real-time assistance. Diagnosed issues remotely, made configuration changes, and resolved technical problems without on-site visits.
- Training and Knowledge Sharing: Conducted training sessions and created instructional materials to educate customers on software applications, hardware devices, and IT systems. Shared knowledge and best practices to enhance technical support capabilities.
- System Maintenance and Updates: Assisted in routine maintenance tasks, system upgrades, and software patches to ensure optimal performance and security. Conducted periodic checks, performed software updates, and implemented security measures.
- Continuous Learning: Stayed up-to-date with emerging technologies, software applications, and IT trends. Actively pursued self-study, training programs, and certifications to continuously improve technical knowledge and skills.

---

**EDUCATION:**

- **Bachelor of Science in Computer Engineering**  
*Technological Institute of the Philippines*
- **STEM – Senior High School**  
*West Bay College – Alabang*

---

**CERTIFICATIONS:**

- **CCNAv7: Introduction to Networks** May 2023  
*Cisco Networking Academy*
- **Cybersecurity Essentials** May 2023  
*Cisco Networking Academy*

# Gabriel Dela Cruz

Computer Engineering



A skilled and qualified computer engineering student with a comprehensive knowledge in computer programming, seeking a professional experience to utilize the knowledge I acquired during the course of my undergraduate education.

**Address** Karuhatan, Valenzuela City

**Phone** 0945 634 1554

**E-mail** [gabdrdc@gmail.com](mailto:gabdrdc@gmail.com)

[mgdelacruz01@tip.edu.ph](mailto:mgdelacruz01@tip.edu.ph)

---

## Skills

- Programming skills
  - Leadership skills
  - Communication skills
  - Management skills
  - Goal-oriented
  - Self-motivated
  - Team player
  - Detail-oriented
- 

## Education

2018-2020

University of the East - Caloocan

Science, Technology, Engineering, and Mathematics Track

2020-2021

MOL Magsaysay Maritime Academy

Bachelor of Science in Marine Transportation

2021-Present

Technological Institute of the Philippines

Bachelor of Science in Computer Engineering

---

# **JOHN MIKAEL R. DIAZ**

**COMPUTER ENGINEERING**

**Technological Institute of the Philippines (TIP) M**

**Address:** 015 Road 5 cor. Pacheco Drive, Dalandan, Valenzuela City

**Email Address:** [mjmdiaz@tip.edu.ph](mailto:mjmdiaz@tip.edu.ph)

**Cellular No.:** +639455421498



## **CAREER OBJECTIVE**

I am highly motivated and dedicated seeking opportunities to apply and expand technical skills, gain practical experience in software design, and troubleshooting, while contributing to innovative projects. Always aiming to enhance my knowledge, work collaboratively with a dynamic team, and ultimately pursue a successful career in the said field of technology.

## **DESIGN PROJECT COMPLETED/ RESEARCH**

BuoyWatch: Practical FAD Management System and Automated Fish Detection Device for Fishermen  
Project Design | May 2024

## **KNOWLEDGE, SKILLS, AND ATTITUDE**

Having graduated from TIP with its orientation towards outcome-based education, I have acquired and can demonstrate the following student acquire outcomes (knowledge, skills, and attitudes) necessary to the practice of the computing profession:

- Analyze complex problems and identify and define the computing requirements appropriate for solution.
- Use modern techniques and tools of the computing practice in complex activities.
- Understand professional, ethical, legal, security and social issues and responsibilities relevant to professional computing.

## **LEADERSHIP ACTIVITIES**

- D' Alpha Allegiance (Dance varsity)
  - Treasurer (2019 – 2020)
  - President (2020 – 2022)

## **SEMINARS AND TRAININGS ATTENDED**

- CCNA R&S: Introduction to Networks; Routing and Switching Essentials; Scaling Networks; Enterprise Networking, Security, and Automation (Certificate of Completion)  
Technological Institute of the Philippines-Manila  
15 Oct 2018 – 22 Mar 2020

## **EXTRA AND CO-CURRICULAR ENGAGEMENT AND VOLUNTEER WORK**

- Computer Engineering Student Society (CoESS)  
Member  
July 01, 2019 - July 31, 2020

## **OTHER SKILLS**

- Computer Troubleshooting
- Designing Database Structures and Tables
- Using Various Operating Systems (Windows, Linux)
- Programming Languages (C, Assembly Language, Python)
- Proficient in Microsoft Office (Word, Excel, PowerPoint)

## **REFERENCES**

Chona Opeña  
Secretary, Computer Engineering  
Technological Institute of the Philippines – Manila  
[openacp\\_rdmo@tip.ph](mailto:openacp_rdmo@tip.ph)  
09397536379

**ABDUL RAHMAN A. DIDA-AGUN**

6 P Road 7, 1<sup>st</sup> West, Brgy. West Crame, San Juan City, 1500  
(+63) 926-150-1527 • didaagunabdulrahman@gmail.com

**KEY SKILLS:**

Operating Systems • Programming • Data Entry • Email Management • Computer Networks • Project Management

---

**TOOLS USED:**

Kali Linux, DevC++, Cisco, PyCharm, IntelliJ

---

**EDUCATION**

- **Bachelor of Science in Computer Engineering**  
*Technological Institute of the Philippines*
  - **STEM – Senior High School**  
*Centro Escolar Integrated High School*
  - **Junior High School**  
*Roosevelt College Cubao*
- 

**CERTIFICATIONS**

- **CCNAv7: Introduction to Networks Nov 2022**  
*Cisco Networking Academy*
- **Cybersecurity Essentials May 2023**  
*Cisco Networking Academy*



## BEEJAY B. JAVIER

### COMPUTER ENGINEER

#### PERSONAL PROFILE

I am an undergraduate B.S. Computer Engineering student with an unwavering passion for computing technology. I am a quick learner with the ability to handle pressure, as well as find creative solutions in solving problems; striving to improve and develop my skills and learn along the way.

#### SKILLS AND ABILITIES

- CISCO Networking
- Proficient in Microsoft Office (Word, Excel, PowerPoint)
- Programming Language: Python, C#, C++, Assembly Language
- Machine Learning: PyTorch, TensorFlow
- Proficient in MySQL
- Computer Repair and Troubleshooting

#### CONTACT ME AT

- Acacia Drive B5 L4 PH1 Vista Bonita Subd. Brgy. San Jose Dasmariñas City, Cavite
- bjjavier1@gmail.com
- @bjjavier
- (+63) 946 379 5637

#### WORK EXPERIENCE

##### Customer Service Associate

Sykes Asia, Inc. | Jul 2022 - Aug 2023

##### Data Encoder

Philippine Statistics Authority | Jan 2021 - Feb 2021

##### Statistical Researcher

Philippine Statistics Authority | Sep 2020 - Oct 2020

##### Statistical Researcher Team Supervisor

Philippine Statistics Authority | Sept 2020

##### Cadet Engineer

Experts Academy · OJT | May 2020 - Aug 2020

#### EDUCATIONAL HISTORY

##### Technological Institute of the Philippines

BS Computer Engineering | Jun 2017 - Present

- Auditor, Computer Engineering Student Society (2019 - 2020)

#### CERTIFICATIONS

- Splunk 7.x Fundamentals Part 1 (eLearning) (Jul 2020)
- FORTINET: NSE 2 Network Security Associate (Jun 2020 - Jun 2022)
- FORTINET: NSE 1 Network Security Associate (Jun 2020 - Jun 2022)
- Sophos Certified Technician (Jun 2020)
- Sophos Certified Engineer (Jun 2020)
- CCNAv7: Enterprise Networking, Security and Automation (Mar 2020)
- CCNA Routing and Switching: Scaling Networks (Dec 2019)
- CCNA Routing and Switching: Routing and Switching Essentials (Jun 2019)
- CCNA Routing and Switching: Introduction to Networks (Oct 2018)



# EUGENE VILLEGRAS



(+63) 976-489-9792



mevillegas@tip.edu.ph



6a Pascual Street, Greenheights Village, Parañaque City

---

## CAREER OBJECTIVE

To use my current knowledge and skills in providing software solutions that addresses the problems that are concurrent in our community, and to further enhance this set of skills and knowledge using systematic approach towards any challenge that is to come.

## CERTIFICATES

- 2024

Udemy

### **HTML5 AND PYTHON3 COMPLETE COURSE 2023**

- Provided the essential coding techniques that help me with understand web development in a deeper sense.

- 2024

Udemy

### **CSS, BOOTSTRAP ,JAVASCRIPT, PHP FULL STACK CRASH COURSE**

- Provides a basic functionalities of CSS, BOOTSTRAP, JAVA and PHP that is useful towards web development.

- 2024

Udemy

### **C++ TRAINING CRASH COURSE 2022**

- A programming training using C++ that provides the basic fundamentals of coding.

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## EDUCATION

- 2022-PRESENT

Manila

### **TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES**

- Bachelor of Science in Computer Engineering

- 2020-2021

Parañaque

### **OLIVAREZ COLLEGE**

- Bachelor of Science in Radiologic Technology

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## SKILLS SUMMARY

Programming	<div style="width: 92%;">92%</div>
Project Management	<div style="width: 47%; background-color: #e0e0e0;">47%</div>
UI/UX Design	<div style="width: 82%;">82%</div>
Database Design	<div style="width: 75%; background-color: #e0e0e0;">75%</div>

## OTHER SKILLS

- Data Analysis
- Project Presentation
- Project Documentation

## REFERENCES

- Abad, R. P. B., Banister, D., Biona, J. B. M. M., Fillone, A. M., Hickman, R. (2016, August 8). *Investigating the relationship between housing affordability and mobility in Metro Manila, Philippines*. Proceedings of the 23rd Annual Conference of the Transportation Science Society of the Philippines (2016). <https://ncts.upd.edu.ph/tssp/wp-content/uploads/2016/08/Abad-et-al.pdf>
- Alcaraz, A. Z., Ison, J. Y., Jimenez, C. J., Marcelo, A. R., Alonsagay, A., Pelias, R., Dela Cruz, C., Alas, J. A., Santiago, A. V., Mesana, J. C. (2020, March). ACCOMMODATION PREFERENCES AMONG A SELECT GROUP OF FILIPINO COLLEGE STUDENTS. *Antorcha*, 7(2). <https://research-manila.letran.edu.ph/read/165>
- Apartments.com & Google. (2015). *Online Search Behavior and Trends of Apartment Renters*. [https://www.shelterrealty.com/docs/Apartments\\_Google\\_WhitePaper.pdf](https://www.shelterrealty.com/docs/Apartments_Google_WhitePaper.pdf)
- Ballesteros, M. M., Ramos, T. P., Ancheta, J. A. (2022, August 18). *Measuring Housing Affordability in the Philippines*. *Philippine Institute for Development Studies*. <https://www.pids.gov.ph/publication/discussion-papers/measuring-housing-affordability-in-the-philippines>
- educations.com. (2021, January 5). *Study in the Philippines: Housing & Living Costs*. <https://www.educations.com/study-guides/asia/study-in-the-philippines/student-housing-19879>
- Little, N. (2023, May 15). *8 ways to beat the cost of living as a student*. Barossa Regional University Campus. <https://www.barossacampus.com.au/post/beat-the-cost-of-living-as-a-student>
- McKee, A. J. (2023). *Renting Housing in the Philippines as an Expat* (2023). docmckee. <https://docmckee.com/travel/renting-housing-in-the-philippines-as-an-expat-2023/>
- mommybloggersphilippines. (n.d.). *What Students Need to Consider When Choosing a Boarding House for Rent*. <https://mommybloggersphilippines.com/2022/06/28/students-need-consider-choosing>

-boarding-house-rent/

Morris, A. (2014, October 21). *Apartment complexes too often take advantage of college students*. The Crimson White. <https://thecrimsonwhite.com/21573/opinion/apartment-complexes-too-often-take-advantage-of-college-students/>

nyhabitat.com. (2013, January 28). *10 Things to Avoid When Renting an Apartment Online*. <https://www.nyhabitat.com/blog/2013/01/28/10-things-avoid-renting-apartment-online/>

Office of Outreach and Relationships. (2024, January 31). *Moving Off Campus in the Philippines: Housing and Financial Considerations*. The Continents State University. <https://www.continents.us/blog/moving-off-campus-housing-and-financial-considerations-philippines>

Oh, J. & Kim, J. (2021, March 3). *Relationship between Mental Health and House Sharing: Evidence from Seoul*. International Journal of Environmental Research and Public Health, 18(5). <https://doi.org/10.3390/ijerph18052495>

OpenAI. (2024). *ChatGPT* (May 5 version) [Large language model]. <https://chatgpt.com/>

Velasquez-Garcia, Z. & Garcia, J. A. S. (2016). *On-Campus Living Experiences among Filipino University Students*. Philippine Journal of Counseling Psychology, 18(1). <https://ejournals.ph/article.php?id=17291>

Wise. (2023). *Cost of living in the Philippines: Your guide*. <https://wise.com/us/blog/cost-of-living-in-the-philippines>

Wohletz, J. (2013, August 5). *Five reasons why renting an apartment is a huge pain*. Westworld. <https://www.westword.com/arts/five-reasons-why-renting-an-apartment-is-a-huge-pain-5799227>

