

**DINGDORM: YOUR ULTIMATE SOLUTION FOR ROOM FINDING, CATERING TO
STUDENTS' NEEDS AND PREFERENCES**

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APPROVAL SHEET

ABSTRACT

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Chapter 1

THE PROBLEM AND ITS SETTING

Introduction

In this day and age of rapid technological advancements, students benefit from online educational resources and collaborative tools. Whereas, students also rely on navigation applications to streamline their daily journeys. Despite rapid technological advancements, students often experience problems finding suitable and comfortable rooms and dormitories close-by their universities that meet their needs while balancing factors such as affordability, location, and amenities to create a living environment conducive to academic success. The stress of juggling these demands can be overwhelming, often leaving students feeling uncertain about their housing situation.

The researchers aim to develop a web-based room finder to simplify the process for students seeking dormitories, boarding houses, rooms for rent, and bed spaces in U-Belt. This platform will enable students to easily search, book, or inquire about available accommodations, streamlining the often daunting task of finding suitable housing options. By providing a user-friendly interface and comprehensive listings, the web-based room finder seeks to alleviate the stress and uncertainty associated with securing temporary residence for students. Creating a dormitory application serves to streamline and optimize the process of allocating accommodations for students. The application simplifies tasks such as submitting preferences, managing roommate requests, and accessing important announcements or updates. Moreover, it enhances transparency and fairness in the allocation process by providing clear criteria and guidelines for room assignments.

To summarize, in today's age of rapid technological advancement, students benefit from online educational resources and navigation apps for their daily travels. In line with that, finding suitable and comfortable accommodations near universities continues to be a major source of stress for many students. To address this issue, researchers are developing a web-based room finder that will make it easier to secure housing. This platform will provide students with an easy-to-use interface for searching, booking, or inquiring about available accommodations, reducing the stress and uncertainty that comes with finding suitable living arrangements. In addition, a dormitory application is being developed to simplify the allocation process, making tasks like submitting preferences and managing roommate requests more efficient and transparent.

Background of the Study

It is not a surprise that the capital of the Philippines is often visited and migrated to by different Filipinos, providing them with endless opportunities and possibilities. Especially Filipino students moving to Manila in search of a better life, finding a temporary residence has become more and more difficult. Despite many dormitories being available, because there isn't a single place to find all the information needed, students have to search in many different places. This lack of information about dorms makes it hard for students to choose the right dorm, because of this the researchers developed a single platform where students can easily find all the information they need about dormitories.

In this study, the researchers will analyze and explore the best possible way to implement a dormitory finder for students. The study will be implemented on the university belt. Which is the districts of Quiapo, Sampaloc, and San Miguel. These are the areas that have a significant concentration of major colleges and universities in the city. The system utilizes Mapbox API which will help the user locate dormitories. And, provides several dormitory selections alongside its information such as; photos of the dormitory, prices, amenities, ratings, tenants per room, contact details of the owner, and nearby establishments.

A local study "BoardHub: Streamlining Boarding House Management through an Innovative Web-Based Information System with an Advanced Boarding House Locator for Iligan City." (Generalao, et.al, 2023) provides a user-friendly interface that automates essential management functions such as tenant records, billing, and communication. The system's efficiency is enhanced by using a sophisticated Boarding House Locator. This tool enhances students' capabilities by offering them a comprehensive and readily available repository of boarding house possibilities tailored to their preferences and needs. According to the researchers the study greatly enhanced the students' quality of life and operational efficiency for boarding houses.

Building upon the work of Generalao (2023), the researchers aim to provide a more comprehensive and user-friendly dormitory search experience by incorporating innovative features such as a user rating feature, where renters can rate the dormitories based on their satisfaction so that other renters would be able to identify the status of the dorm they are about to rent. Furthermore, users can also submit feedback, and reviews, and engage in direct chat with dormitory owners for a faster and safer transaction. Furthermore, the system integrates a secure payment gateway, utilizing seamless online reservation payments and financial transactions. Lastly, the administrator has the highest privilege, enabling them to manage users by blocking or unblocking them if they violate the application's terms of use.

DingDorm aims to make the process of finding a dormitory in Manila much easier for students. By providing a single, easy-to-use platform with all the necessary information.

Objectives of the Study

General Objective

The main objective of the study is to develop a user-friendly web-based system to assist students in easily locating dormitories, boarding houses, rooms for rent, or bed spaces in U-Belt. By utilizing this system, students will be able to navigate their housing options with convenience and efficiency, reducing the stress and uncertainty often associated with finding suitable accommodations. The following are the specific objectives of the study:

Specific Objectives

1. To develop a web application that will help users easily find dormitories or room spaces to rent.
2. To design a system that can become another platform for establishment lessors to list their properties for sale.
3. To develop a system that is scalable to a larger scope of users.
4. To map out the available dormitories within U-Belt that are available for students.
5. To design a time-efficient system that will help people in seeking their temporary dwelling.
6. To evaluate the proposed system in terms of security, usability, and efficiency.

Scope and Limitations

The main focus of the study will be developing a website that aims to support and help students who are looking for safe and secure dormitories, rooms, and bed spaces and dorm owners to gain tenants easily with the help of this website. Before this, a feasibility study will be conducted to support and guide the development of this study.

The duration of the study will be conducted within the first semester of school year 2023-2024

Scope:

The scope of the study is to develop a dormitory finder website, which will be composed of features. The scope of the study is composed of:

1. The system will be available online via Progressive Web Application.
2. The study will be conducted within U-Belt Manila.

3. The website has a filtering function to ease the user's navigation through the site.
4. Users can only view dormitory locations on an online interactive map.
5. The website will allow the users to leave reviews and ratings for the dormitories they have stayed in.
6. The website has a feed page where users can see, inquire, and acquire dormitories, rooms, and bed spaces that have been posted by dormitory owners.
7. Every post will consist of photos and videos of dormitories, prices, amenities, ratings, tenants per room, and nearby establishments.
8. The website will require the dormitory owners to provide documents and permits of their business for security purposes.
9. Every dormitory, room, and bed space owners will have a status if they are verified or semi-verified.
10. Users can see nearby establishments within the dormitory, room, or bed space through the system's interactive map.
11. This website will use Mapbox to provide more and accurate information for the users.
12. This website will have instant message for FAQs

Delimitations

Delimitation is essential for specifying the platform's goals and extent. This study delimits:

1. Geographical coverage.
2. Maintenance of the rooms.
3. Security and privacy concerns.
4. The system is only delimited to locations other than U-Belt Manila.
5. The system will not handle any form of payment transactions.

Significance of the Study

The importance of this study is to assess the difficulty of finding suitable dorms, and it is relevant for all the people looking for a place to stay, most importantly students like us. The

study aims to advance in terms of providing reliable and accurate information about the places or dormitories registered in our system. It also aims to advance in the technological field by exploring different technologies to provide the best experience.

Our study is created to impact various stakeholders. Firstly, the students who live outside or far from Manila and studying in universities along the U-Belt area will benefit from the study by using the system Dingdorm which will provide ease and convenience in finding an appropriate or suitable dorm for them to stay.

In addition, household or dorm owners will benefit since they will have a platform to showcase their place, being able to market it while also helping the students by providing reliable information.

Lastly, the future researchers and other stakeholders will have a different insight and point of view about dormitory finding works. The features of the system can also benefit future researchers in a way they know what to add, remove, and improve in the system.

References

Generalao, M. G. C., Regino, A. O. P., Valdepeñas, R., & Empig, E. (2023). BoardHub: Streamlining Boarding House Management through an Innovative Web-Based Information System with. ResearchGate. https://www.researchgate.net/publication/375455579_BoardHub_Streamlining_Boarding_House_Management_through_an_Innovative_Web-Based_Information_System_with_an_Advanced_Boarding_House_Locator_for_Iligan_City