**Introduction**

University dormitories are places where student study and reside throughout their tenure at the institution, dormitories must first meet the health and comfort requirements what a dormitory should have. Empirical evidence underscores the pivotal relationship of boarding conditions has a significant impact on the quality of student learning, whereby poor boarding student experiencing poor health, increasing behavioral problems and declining academic performance. Meanwhile sustaining satisfaction with the residential of the university dormitories has play an important role as part of the success of every student in their whole career and achieving academic excellence where student was equipped with good facilities and stunning infrastructure and provide services where boarders satisfied (Muharman, L. et al 2018).

Managing a university dormitory is a tedious task for a dormitory manager and considered as a complex task to perform. As a dormitory manager his responsibility are the maintenance of the dormitory, room allocations, manage student requests, payments, billing, ensuring the safety and peace of the student during their stay in the premises of the university dormitory where security is the most top priority. Seamless business process is one of the functions that needs to improve, as a dormitory manager its managerial task will be more efficient in adapting a software base solution to improve its process and to provide services where nobody will complain to its services provides.

The University of Southern Mindanao Men's Dormitory are situated along Kabacan, Aringay Road, in proximity to the university's rear exit gate. These dormitories consist of three buildings. Building I serve as the primary dormitory, Building II acts as a supplementary dormitory for overflow boarders, and Building III is exclusively designated for university athletes. All three buildings are overseen by a single dorm manager who manages payment collection and addresses student boarder concerns. However, the current dormitory management system is manual and has proven to be inefficient. It is labor-intensive, susceptible to errors, and unable to provide effective and streamlined services to the students. The manual system in place at University of Southern Mindanao Men’s Dormitory cannot adequately handle the growing number of students. It relies heavily on paperwork, which is prone to errors and leads to processing delays.

Moreover, the absence of automation results in slower response times to student inquiries and complaints, potentially causing dissatisfaction and frustration among the students. Furthermore, the University of Southern Mindanao Men’s Dormitory manual management system has limited features for students. It lacks the capacity to provide information regarding room availability, amenities, and other relevant services. This makes it challenging for students to find accommodation that suits their needs. Additionally, the manual system does not offer an efficient way to manage payments, further complicating matters for the students.

**Objectives**

The primary objective of this project is to develop an automated dormitory management system for the University of Southern Mindanao to manage transactions using the system.

Specifically, it aims to:

1. Develop a module that will provide seamless processing information on student information.

2. Provide online reservation for student to apply for dormitory accommodation, including room selection, and reservation fee.

3. Develop a module that will accept monthly payment of boarders via online platforms like Gcash or Paymaya.

**Significant of the study**

By advocating for the adoption of a software-based solution this encourages a shift towards modern management of the dormitory in particular in the University Men's Dormitory that will improve the processes of the institution boarding where students reside in the dormitory while offering this kind of automated process this will boost the productivity of a dormitory manager. Furthermore, this will boost the productivity of a student who reside their tenure as a university student. The proposed improvement targets the students within the dormitory where all the process will be automated using the proposed system.

**Scope and Limitation of the study**

The present study provides an in-depth analysis of the challenges faced by the University of Southern Mindanao Men's Dormitory, it is essential to acknowledge the limitation associated with external validity. The exclusive focus on a singular institution may restrict the generalizability of the study's findings to a wider academic context. University dormitories vary significantly in terms of organizational structures, student demographics, and geographical locations, and the issues identified in the University of Southern Mindanao Men's Dormitory may not be universally representative.

Consequently, caution should be considered when applying the study's conclusions to other educational institutions. Furthermore, research endeavors should consider conducting similar investigations across diverse university dormitories to validate and have a more comprehensive understanding of the challenges in dormitory management. This would contribute to the development of broadly applicable recommendations and solutions that can address the varying complexities inherent in distinct academic settings.