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**A Web-Based Thesis Archiving Management System With Title
Generator for College of Computer Studies - Our Lady of Fatima University -
Antipolo Campus**

A Capstone Project

Presented to the Faculty of the
College of Computer Studies
Our Lady of Fatima University

Antipolo City

by:

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CHAPTER I

INTRODUCTION

In the dynamic landscape of academia, the pursuit of knowledge is a perpetual journey marked by the culmination of scholarly endeavors - the thesis. As students at Our Lady of Fatima University - Antipolo Campus embark on their academic quests, the need for an efficient and comprehensive Thesis Archiving Management System becomes increasingly apparent. Recognizing this demand, our capstone project aims to introduce a cutting-edge solution: a Web-Based Thesis Archiving Management System enriched with a Title Generator.

This innovative system strives to streamline the entire thesis management process, from submission to retrieval, ensuring a seamless experience for both students and faculty. The inclusion of a Title Generator adds an extra layer of utility, assisting students in crafting captivating and relevant titles for their research works. This not only addresses a common challenge faced by budding researchers but also elevates the overall quality of theses produced by the institution.

Our Lady of Fatima University - Antipolo Campus has always been at the forefront of embracing technological advancements to enhance the learning experience. With this capstone project, we aim to contribute to the university's commitment to

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academic excellence by providing a state-of-the-art platform that aligns with the evolving needs of the scholarly community.

This introduction sets the stage for a transformative initiative that promises to redefine the way theses are managed and produced within the university, fostering a more efficient, accessible, and innovative research environment for the academic community.

Background of the Study

In the hallowed halls of Our Lady of Fatima University - Antipolo Campus, the pursuit of academic excellence is a shared aspiration among students and faculty alike. As the academic landscape continues to evolve, the central role of the thesis in the culmination of a student's educational journey cannot be overstated. The process of crafting, submitting, and managing theses, however, often presents challenges that hinder a seamless and efficient experience.

Traditionally, the management of theses involves a multitude of manual tasks, from submission and tracking to archiving and retrieval. The cumbersome nature of these processes not only consumes valuable time but also introduces the potential for errors and oversights. Furthermore, the task of formulating a compelling and relevant thesis title, a critical aspect of any research work, poses a significant challenge for students navigating the complex world of academia.

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Recognizing these challenges, the Web-Based Thesis Archiving Management System with Title Generator for Our Lady of Fatima University - Antipolo Campus emerges as a crucial response to the evolving needs of the academic community. By harnessing the power of web-based technology, this system seeks to revolutionize the way theses are managed within the institution, providing an integrated and user-friendly platform that addresses the shortcomings of the current manual processes.

The implementation of a Title Generator within the system aims to alleviate a common struggle faced by students during the initial stages of their research journey. Crafting a captivating and relevant thesis title is a nuanced skill, and the inclusion of this feature aims to guide and support students in this crucial aspect of their academic endeavors.

As we delve into the background of this capstone project, it becomes evident that the Web-Based Thesis Archiving Management System with Title Generator is not merely a technological upgrade but a strategic investment in the enhancement of the overall academic experience at Our Lady of Fatima University - Antipolo Campus. By embracing innovation and efficiency, this system aims to create a more conducive environment for research, fostering a culture of excellence and elevating the institution's standing in the realm of academic achievement.

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Objectives of the Study

The general objective of the study is to develop a Web-Based Thesis Archiving Management System With Title Generator for Our Lady of Fatima University - Antipolo Campus. The study particularly aims to:

- **Web-Based Platform:** A system accessible through the internet using web browsers, designed to facilitate interaction between users and the thesis management system.
- **Thesis Archiving Management System:** A digital system designed to handle the submission, tracking, categorization, and storage of academic theses.
- **Title Generator:** A feature within the system that helps students create suitable titles for their research projects based on predefined criteria and inputs.
- **User-Friendly:** Easy to use and navigate, ensuring that all users, regardless of technical proficiency, can effectively interact with the system.
- **Automated Archiving System:** A computerized method for systematically storing and organizing theses, making them easily retrievable in the future.

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Scope of the Study

The scope of the study is to provide an automated system that significantly enhance the efficiency, accessibility, and overall quality of the thesis management process at Our Lady of Fatima University - Antipolo Campus.

- Differentiated access levels will be implemented for students, faculty, and administrators, ensuring that each user group has appropriate permissions based on their roles.
- The system will facilitate the online submission of theses by students, with robust archiving features to organize and store the research works securely.
- The Title Generator will consider diverse academic fields and provide support for generating titles that adhere to established conventions and standards.
- A secure repository/storage system will be included where students can upload their theses, ensuring that the documents are stored in a structured manner and are easily retrievable by authorized users.

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Limitation of the study

The limitation of the study which is not included in the study are the following:

- The effectiveness of the system may be influenced by the existing technological infrastructure of the university. Outdated hardware, limited internet access, or compatibility issues with certain devices could impact the system's accessibility.
- The Title Generator's effectiveness in crafting relevant and engaging thesis titles may be subject to limitations in natural language processing.
- The tool may not capture the full depth and specificity of certain academic disciplines
- The system operates within the existing academic policies of Our Lady of Fatima University - Antipolo Campus. Any major policy changes, not within the scope of this study, might impact the system's alignment with evolving institutional guidelines.
- Technological advancements and evolving academic needs may necessitate ongoing updates and improvements to the system. The study's limitations include potential challenges in keeping the system aligned with future requirements.

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Significance of the Study

The Web-Based Thesis Archiving Management System with Title Generator holds profound significance for Our Lady of Fatima University - Antipolo Campus, impacting various stakeholders and contributing to the advancement of academic excellence. The study's significance can be outlined as follows:

Support for Students and Researchers: Students and researchers will have a reliable platform for submitting and accessing theses, which simplifies their academic tasks and supports their research activities. This ease of access promotes a more productive research environment.

Facilitation for Faculty and Program Heads: Faculty members and program heads will benefit from the reduced manual workload in managing theses. The system provides an organized platform for tracking submissions and evaluating research work, allowing them to focus more on mentorship and academic guidance.

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Resource for Deans and Administrators: Deans and other administrative personnel will have a comprehensive tool for monitoring thesis activities across the campus. This system aids in maintaining academic standards and ensures compliance with institutional policies.

Connection for Alumni: Alumni can access the archived theses for reference or continued learning, fostering a lifelong connection with the university and promoting ongoing academic engagement.

Contribution to Institutional Reputation: The successful implementation of the system reflects the institution's commitment to innovation and excellence. This can positively impact the university's reputation, attracting prospective students and fostering a culture of academic distinction.

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CHAPTER II

CONCEPTUAL FRAMEWORK

This chapter represents the conceptual framework of the study and it also focused on the use of related literature and studies to identify the relation of the proposed study to the study of other researchers. Conceptual framework illustrates what you expect to find through your research. It defines the relevant variables for your study and maps out how they might relate to each other.stages of their research journey.

Technical Background:

In the academic setting, the process of archiving and managing theses traditionally involves physical documents stored in libraries or archives. However, with the advancement of technology and the increasing reliance on digital resources, there is a need for a more efficient and accessible solution. Our project aims to address this need by developing a Web-Based Thesis Archiving Management System with Title Generator specifically tailored for the College of Computer Studies at Our Lady of Fatima University - Antipolo Campus.

The primary motivation behind this system is to streamline the process of thesis management and archiving, making it easier for students, faculty, and administrators to access and organize academic research. Additionally, the integration of a Title Generator feature aims to assist

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students in brainstorming and generating potential thesis topics, thereby facilitating the initial stages of their research journey.

The system will be built using modern web technologies to ensure scalability, reliability, and user-friendliness. It will be accessible through standard web browsers, making it convenient for users to access the platform from any device with an internet connection.

The backend of the system will be developed using PHP scripting language, facilitating dynamic content generation and database interaction. For data storage and management, the system will utilize MySQL, a robust and widely-used relational database management system. MySQL offers scalability, reliability, and performance, making it suitable for handling the large volumes of data associated with thesis archives and related information. In terms of software components, the system will be compatible with various operating systems, including Windows 7 and above, ensuring compatibility with the majority of desktop and laptop devices. Furthermore, the frontend interface will be designed using a combination of HTML, CSS, and JavaScript to create a responsive and visually appealing user experience.

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REVIEW RELATED LITERATURE

Research is of great importance to national development of a nation. Research is meant for the purpose of affecting societal development and improvement. It is a way of acquiring functional, dependable and useful information and data about a particular object of research. Ochia & Omofonmwan (2013) while stressing the perceived importance of research, stated that research has an impact that transcends all spheres of human endeavour such as social, economic, political, educational, science and technology. Research is a purveyor of growth, development and industrialization. The messages and the suggestions made in research output create job opportunities, increased income, increased production of goods and services, create wealth, improved quality of life, improved transportation and communication system, networking the regions of the world, clustering of people and creating interactions among nations, socially, economically and politically. The concept of research has been viewed by different scholars from different perspectives and approaches, it is a quest for knowledge (Baltatu 2011). Research is also a systematic method of inquiring into existing phenomenon, it is characterized as a carefully, but detailed and organised study that helps to substantiate information, proffering solution(s) to specific problems, concerns or issues affecting humanity (Creswell, 2013). Ibrahim (2013) describes research as studious inquiry or systematic

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phenomenon or series of phenomena by experimental method, in order to discover facts, establish or reverse a theory, or to develop a plan of action based on the facts discovered. There are different types of research methods, for example, Sambo (2015) opined that applied research, case study research, ex post facto research, action research, and experimental research among others are different types of research.

One of the appropriate institutions charged with the responsibility of carrying out research for national development is the university and the end product of research activities in universities is called research output. Research outputs are published print and non-print based that contain thoughts within themes and follow ethical principles guiding academics to proffer solutions to identified challenges. These research outputs are not limited to seminar papers, journal articles, conference papers and proceedings, books, chapters in books, theses, dissertation, and projects (electronic and print versions). These information are expected to be housed in institutional repositories such as the libraries, museums, digital centres and in the cloud. Preservation of digital materials has gained significant prominence because of the roles it plays in combating theft, mutilation and distortion of information sources on one hand, and on the other support the creation of digital contents that are valuable to research output. This has continued to grow exponentially because it has a distinguished set of processes; activities and management of information resources which over time ensures long-term accessibility and help to relatively change the short life-cycle of physical resources and retains its original letterings. Another dimension reiterates the different formats in which these materials exist, particularly with the inception and adoption of

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information and communication technologies to enhance service delivery by libraries. Preservation techniques is a set of activities aimed at prolonging the life span of document or object, and the relationship between preservation techniques and access is to enable user have access for both current and future generation. Digital resources acquired by university libraries are characterised to save space, and support the creation and maintenance of repositories, and <http://repository.futminna.edu.ng>

LOCAL LITERATURE

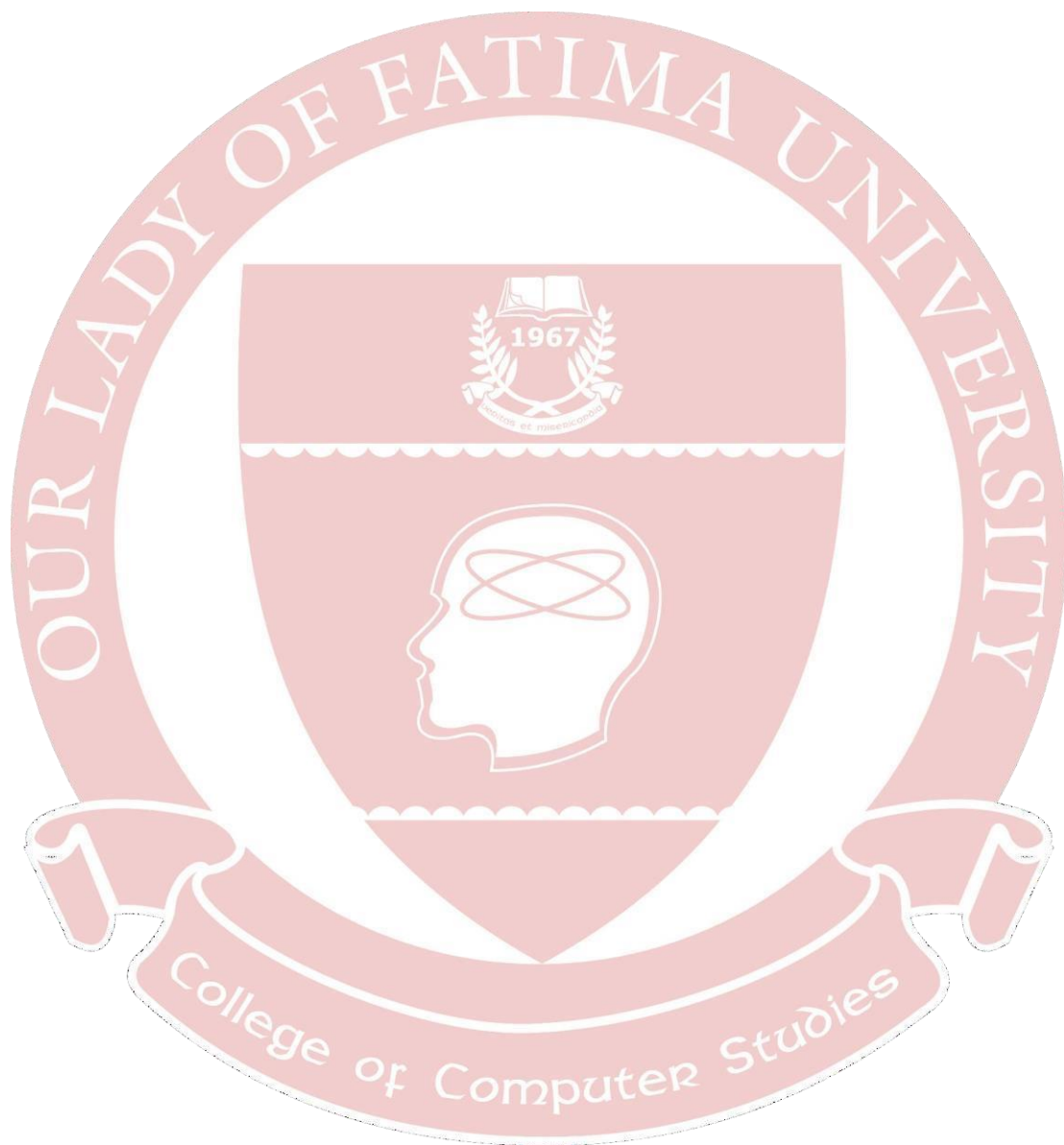
Education in the Philippines has come a long way. To say the least, the amazing crowd that makes up the local education sector is constantly refining how information is taught and acquired in the academe. It is known that since early 1950s, educators in the Philippines were already utilizing different communication tools such as radio, print, and even video technologies in disseminating information [1]. For the past decade, with the advent of low-cost computers and the Internet, we've witnessed a new age of learning where computers are used as educational tools and as a consequence, a staggering rise in electronic academic materials was observed [2]. This age of learning, also known as digital learning, is responsible for the digitization of traditionally printed academic texts and documents, thanks to readily available and user-friendly word processors and presentation managers. The process of digitization is a game-changer to information dissemination, affecting both how information is delivered and managed, without necessarily compromising content [3]. An institutional repository is a repository of materials created by and for the community of an academic institution [4].

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Research on advancements in digital library gradually took off as open archives were being used in storing valuable academic materials. Open archives, as part of the open-access initiative, became quite popular because of the cheap cost (free, in most cases) and ease of delivery of different kinds of materials such as peer-reviewed journals [5]. Result of the research effort came in 2001, where establishing open source institutional repositories (unlike open archives, institutional repositories are more institution-focused) became a trend among universities in the United States with the release of the EPrints open source repository package followed by the DSpace repository package released one year after the former [6].

These packages both make use of data collecting and archiving tools freely available through the internet. Today, select universities across the Philippines such as the Ateneo de Manila University, De La Salle University and the University of the Philippines established programs which encourage mass production of well-researched academic materials ranging from theses to university publications, in addition to electronic course materials, annually [7]. However, a system for urgent preservation of these said materials (which would be beneficial for tomorrow's scholars) is yet to be defined for some of the exemplary universities in the Philippines. For example, the University of the Philippines Manila, a premier university in the Philippines which specializes in health medicine, boasts a number of catalogs for preservation, with the help of digitization and open archives, such as the University of the Philippines Manila Research Database [8], the iLib[9], and in some cases smaller archives created by professors to be used in storing relevant course materials [10]. For example, professors create their own course Facebook to communicate with students and distribute their own materials. Strangely enough,

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Conceptual Model of the Study

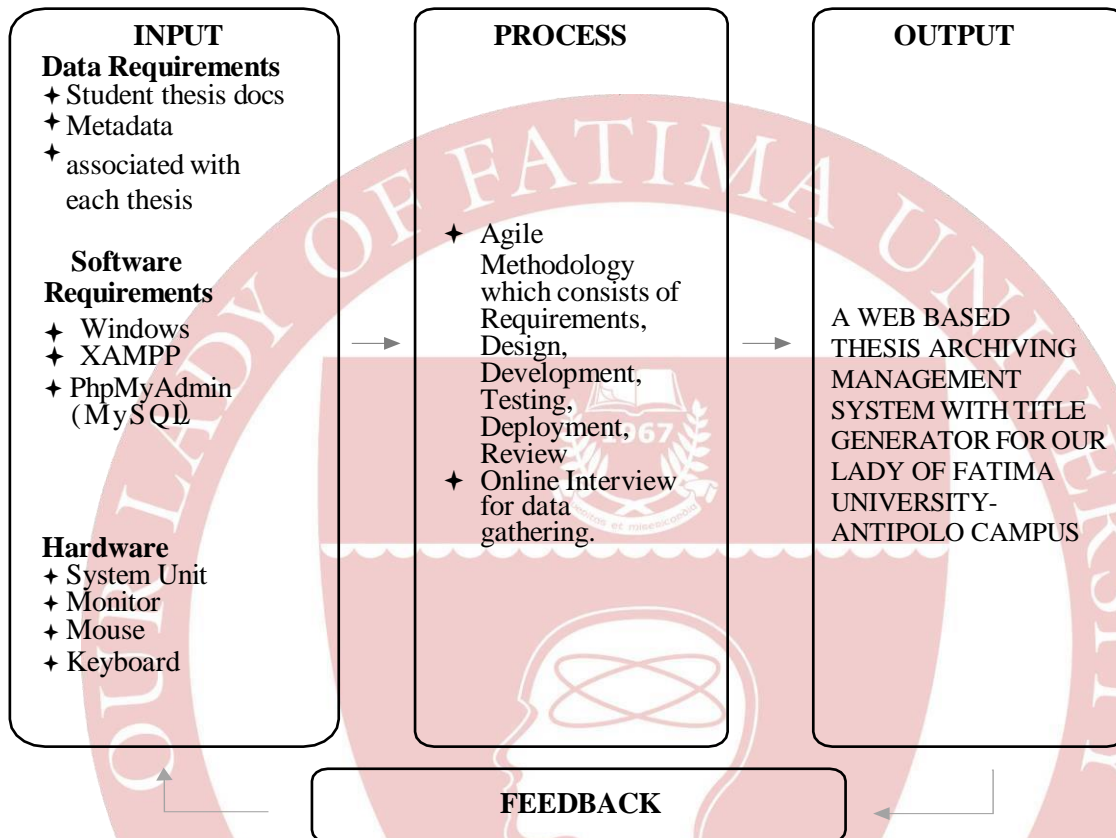


Figure 1. *Conceptual Framework (Input-Process-Output) Model of the Study*

Based on the gathered foreign and local literatures and studies, it will give the proponents a better understanding about the chosen study and will help them to get more ideas on the past researchers. And for the conceptual framework, it is usually represented in a diagram using Input-Process-Output model in research. The input includes both software and hardware components that will be used for using our system. The process represents our guidelines and the indicated process such as gathering of requirements, system design, system creation, and the testing of the system. The output will be our final proposed system.

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Operational Definition of Terms

This section provides the operational definition of important terms used in the study. "Operational" means that the expression used must be definable in terms of observable, identifiable and repeatable operations. It includes only the terms, words, or phrases, which have special or unique meanings in the study and definitions of how they are used in the study. They are identified and listed as they appear in the research document starting with the title. The definitions should be as brief, clear and unequivocal as possible.

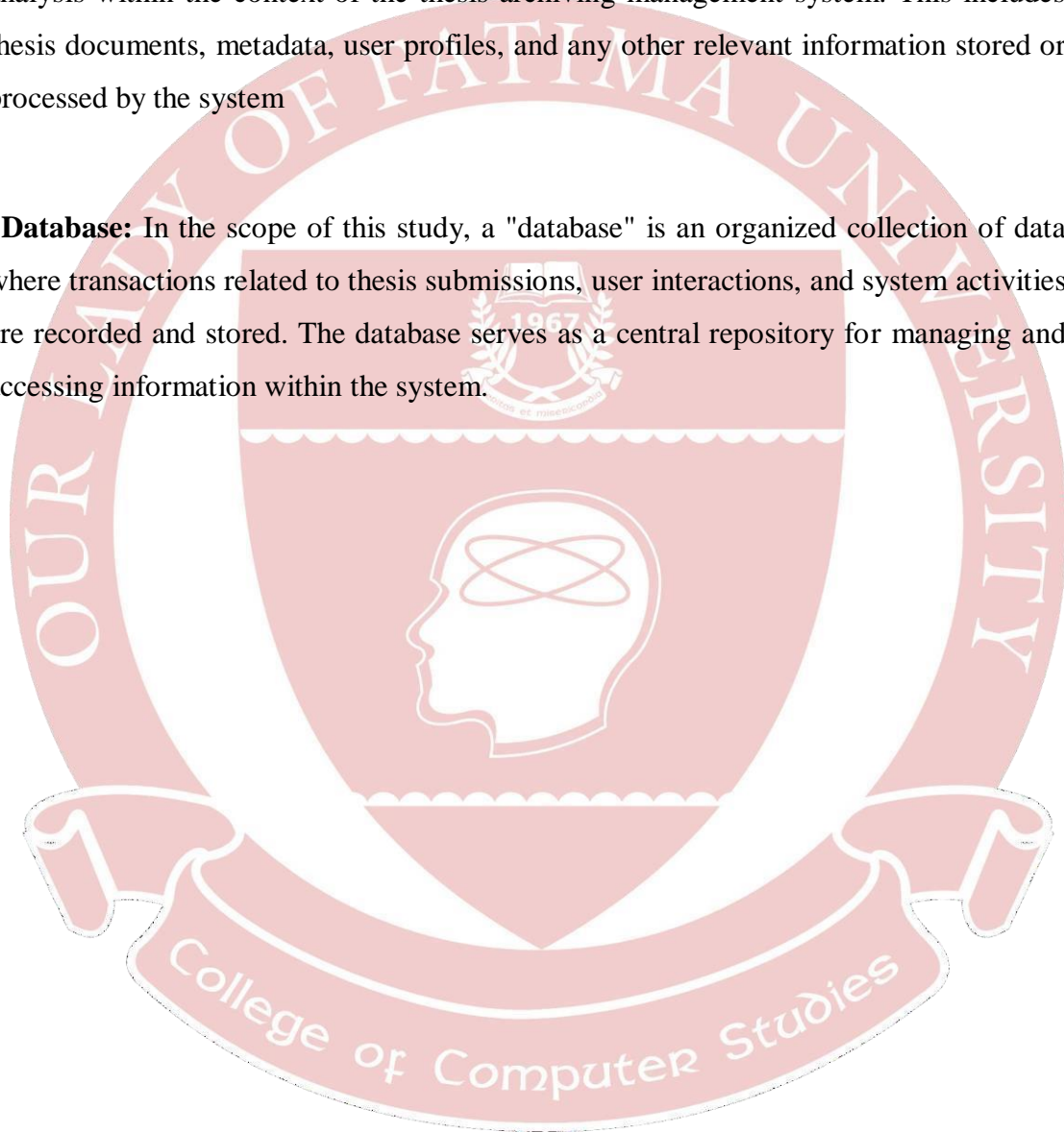
Administrator: In the context of the "Web-Based Thesis Archiving Management System," an administrator refers to a designated individual responsible for managing the technical aspects of the system. This individual has the authority to manipulate and oversee the administrative side of the system, including user management, database administration, and system configuration.

Cooperative: For this study, "cooperative" refers to an enterprise or organization owned and operated for the benefit of its users, in this case, the academic community of the College of Computer Studies at Our Lady of Fatima University - Antipolo Campus. The system aims to serve the needs of students, faculty, and staff members involved in the thesis archiving process.

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Data: "Data" refers to factual information and statistics collected for reference or analysis within the context of the thesis archiving management system. This includes thesis documents, metadata, user profiles, and any other relevant information stored or processed by the system

Database: In the scope of this study, a "database" is an organized collection of data where transactions related to thesis submissions, user interactions, and system activities are recorded and stored. The database serves as a central repository for managing and accessing information within the system.



CHAPTER III

RESEARCH METHODOLOGY

This chapter includes the project design, project development, operation and testing procedure and the evaluation procedure.

PROJECT DESIGN

This part presents the rough sketch of the project prototype, block diagram, system/program flowchart and/or context diagram. Whenever applicable, the schematic and/or dataflow diagrams are also included. These diagrams are provided with corresponding descriptions and discussions that will serve as aid in the development of the project.

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Context Diagram

The diagram defines the boundary between the system, or part of a system, and its environment, showing the entities that interact with it.

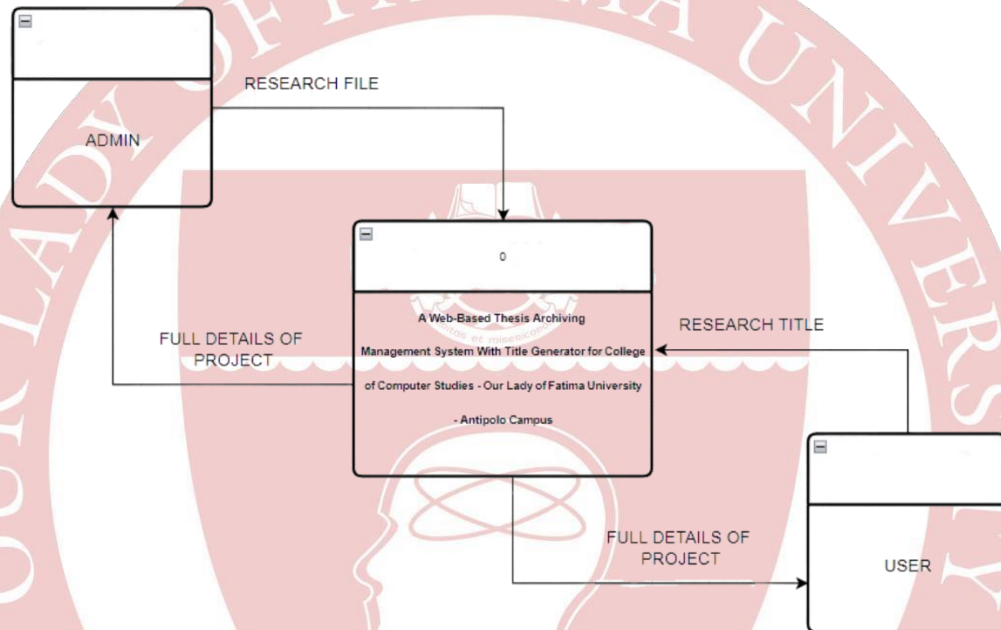


Figure 4 Context Diagram of the Proposed System

The context diagram of proposal system shows that when the user logged in, the user can access the alarm device and configure the system and use the tracker to track and monitor the device location.

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Data Flow Diagram

The diagram is a representation of the flow of data through an information system, modelling its process aspects.

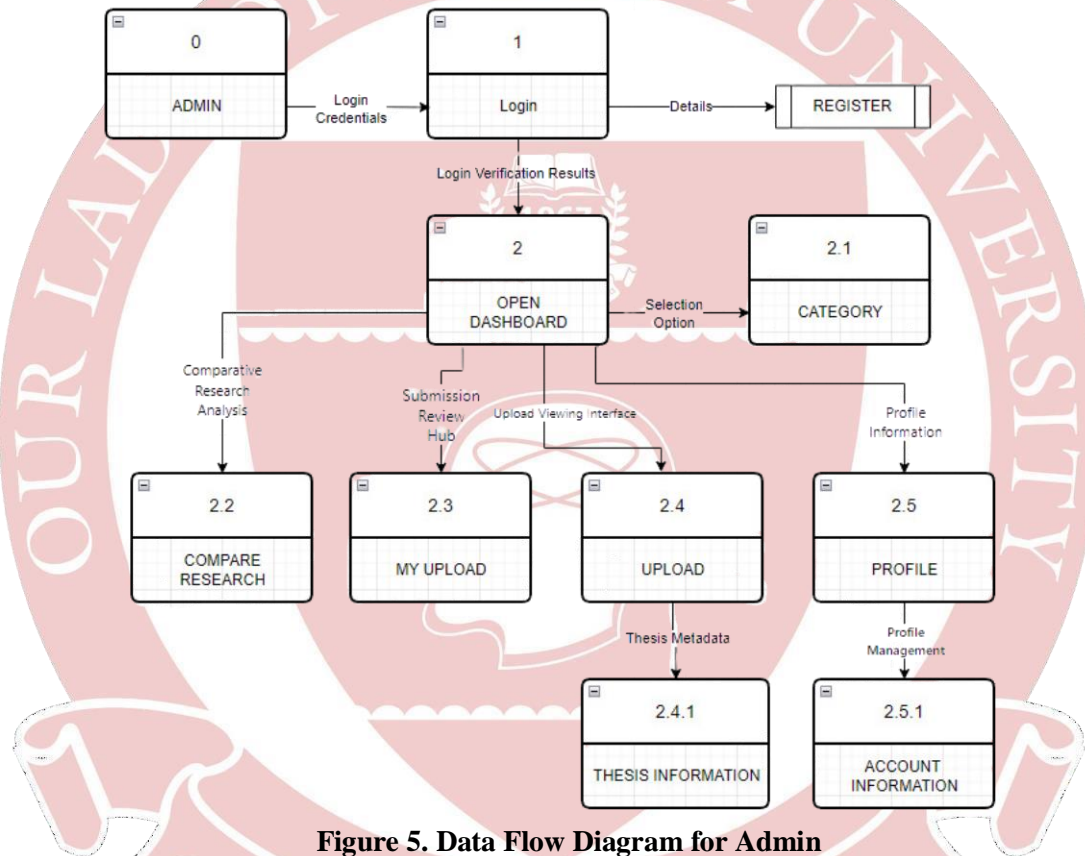


Figure 5. Data Flow Diagram for Admin

The Data Flow Diagram illustrates the flow of data within the system, showcasing user interactions through the User Interface, authentication and registration managed by the Login/Register Controller, navigation facilitated by the Dashboard Controller, submenu functionalities handled by specific Controllers, and data storage and retrieval operations performed on the backend Database.

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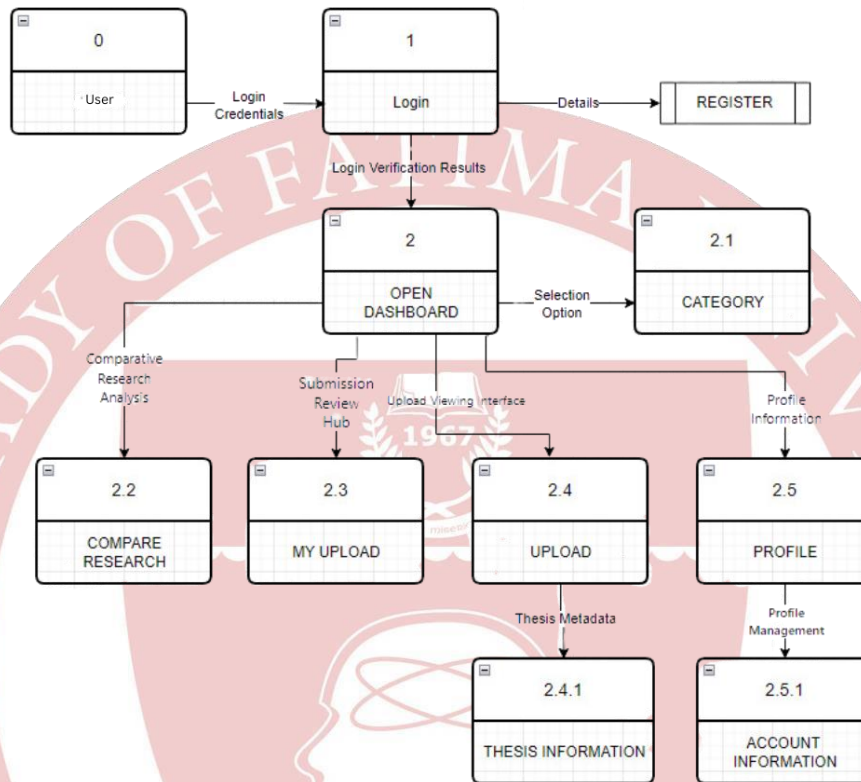


Figure 5.1 Data Flow Diagram for User

The Data Flow Diagram depicts the flow of information within the system, outlining the user's interaction via the User Interface, authentication and registration processes managed by the Login/Register Controller, device tracking functionalities through the Device Tracking module, user data management within the User Database (Backend), authentication procedures overseen by the Authentication Controller, and dashboard navigation and functionality facilitated by the Dashboard Controller and associated Friend, Task, Message, and Settings Controllers.

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System Flowchart

The diagram is a way of displaying how data flows in a system and how decisions are made to control events

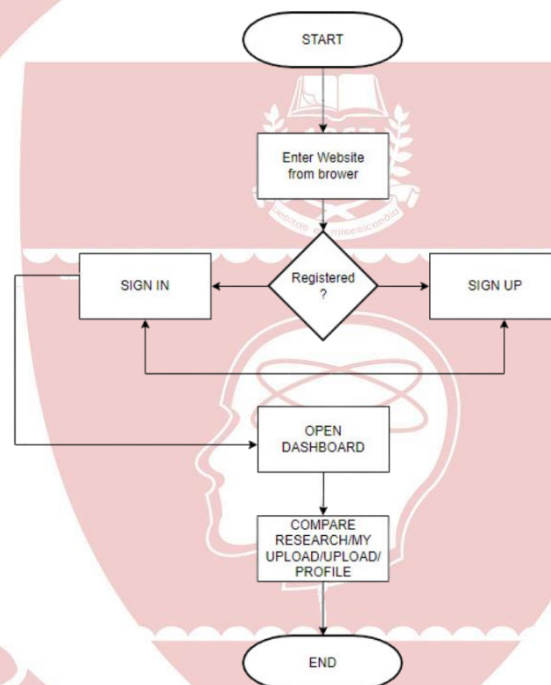


Figure 6. System Flowchart

The System Flowchart illustrates the sequential flow of processes within the existing system, beginning from user interaction via the User Interface, progressing through authentication, dashboard navigation, and specific functionalities, and concluding with data management and tracking processes before reaching the end

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Visual Table of Contents

The visual table of contents (VTOC) shows the relation between each of the documents making up a HIPO package. It consists of hierarchy chart that identifies the modules in a system and relation to each other and gives a brief description of each module.

This part has the accurate sketch of the content of our system. It tells the step-by-step content of every part of the system

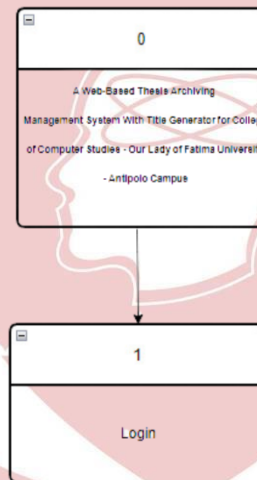


Figure 6.0. System Management

This diagram depicts how the system will start, and the administrator will need to log in to access all the system's contents. Before the administrator can gain access to the system, he or she must first log in. Figure 8.0 depicts only the system's login module.

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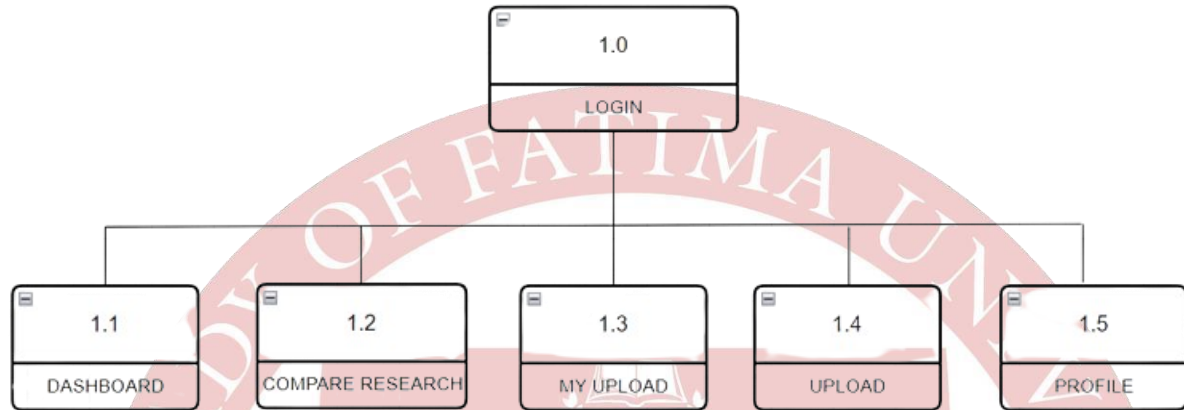


Figure 6.1. Login Module

The login module and its sub-module are shown in this diagram. The dashboard will be the admins default view, and under the panel, there will be Five (5) elements: Dashboard, Compare Research, My Upload, Upload, Profile.

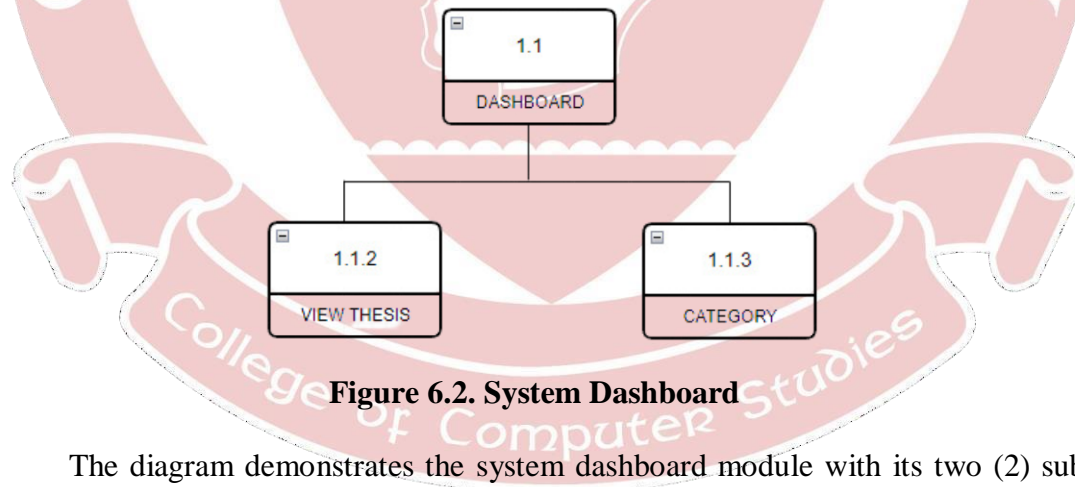


Figure 6.2. System Dashboard

The diagram demonstrates the system dashboard module with its two (2) sub-modules, which are the View thesis, which you can view the full content of the capstone next is Category which is where you can choose repository or none.

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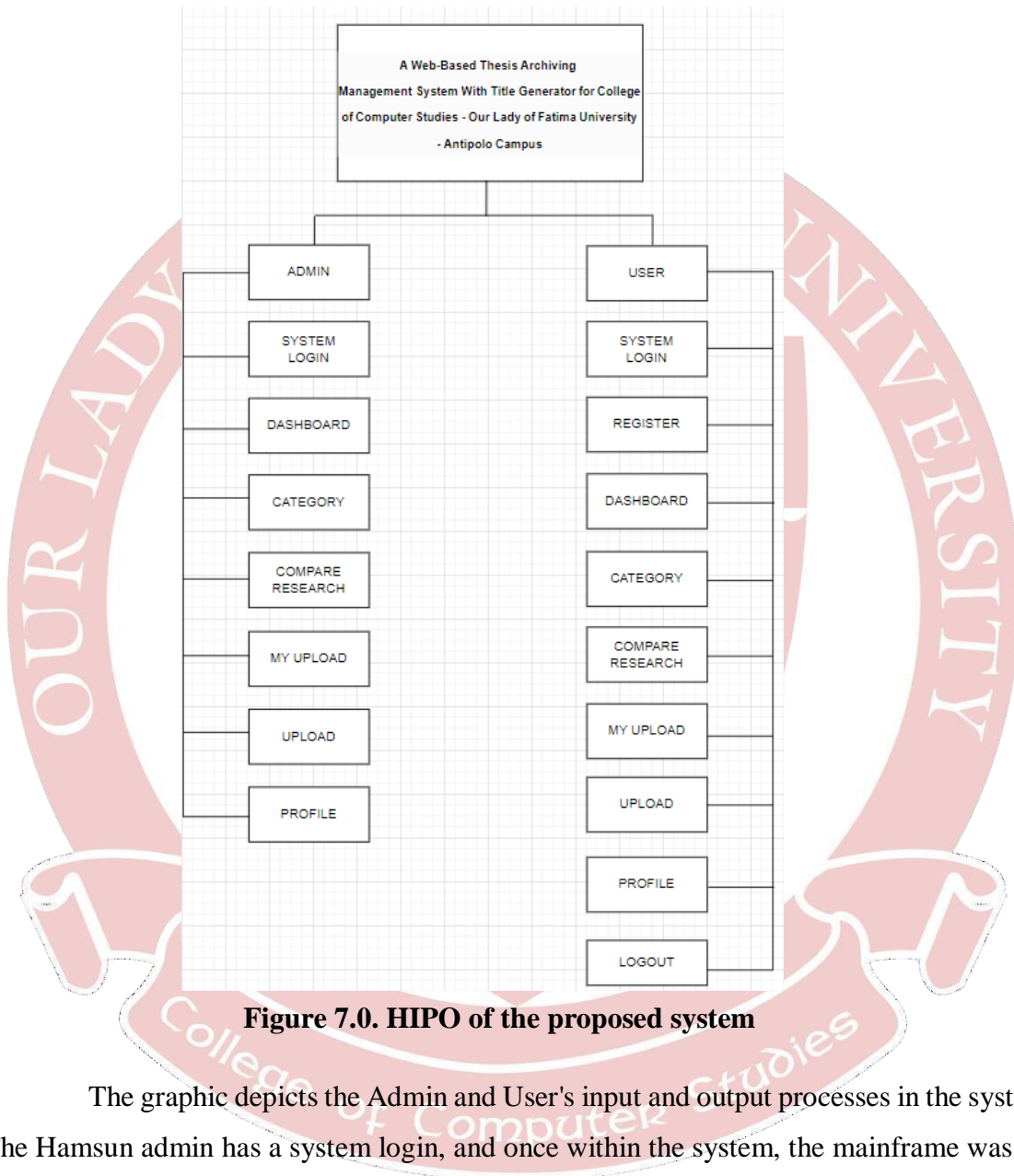


Figure 7.0. HIPO of the proposed system

The graphic depicts the Admin and User's input and output processes in the system. The Hamsun admin has a system login, and once within the system, the mainframe was the dashboard, which has an element in the side panel where the admin may check the user's records and the payment update process will also be provided