THESIS CENTRAL: ONLINE THESIS SHARING AND LIBRARY
MANAGEMENT SYSTEM OF TECHNOLOGICAL UNIVERSITY OF THE
PHILIPPINES - MANILA

A Thesis Presented to the Faculty
of the College of Science
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Bachelor of Science in Information Technology

by

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INTRODUCTION

Thesis Central: Online Thesis Sharing and Library aims to address this issue by providing open access to the theses of the students. The system was designed to meet user?s demands,5 ensuring proper functionality and efficient sharing and processing while prioritizing the management of thesis documents. It is open to all students and can only be accessed online through web browsers using mobile phone, tablet, or computer. Thesis and capstone are one of the main requirements given to students in college before they graduate. Thesis Document Sorting and Filtering (RSCF) is a new study. The study?s concept is simple for readers and researchers to comprehend. It aims to: provide a space for storing and organizing academic works. It also lists the different steps that are involved in developing a thesis. Theses can be downloaded from TUP Library or NonTUPian (Non-TUP) students can verify their account from the Librarian or Assistant Thesis Document.

METHOD

The system requires the following components for it to be functional and utilizedefficiently. The operating system must be at least ?Windows 7 or later? The software requirements are MongoDB as database, Node.js as server-side proxy, Git Bash for command-line interface, Postman for API testing, Visual. Fortress Code as an IDE, ReactJS and ExpressJS for the frontend framework, Google. Chrome, Opera GX and Microsoft Edge as web browsers. Super User Management allows the admin to remove, add, and edit super users. Thesis Central is a web-based online thesis sharing and library management system. It was developed by the Technological University of The Philippines ? Manila. Thesis Central was developed to modernize the management and accessibility of theses. The system was composed of three different levels of user which serve a different authority. It is designed to be used by student, manager, and admin users. It can only be read within university premises and cannot be taken outside of campus because of a significant issue that arises. Thesis Central Web Application was developed by researchers at the University of the Philippines ? Manila. The system was designed to process the secure uploading, and management of digital thesis via a website. Key features include an Automated APA, MLA, and Chicago Referencing on Copy-Paste, Efficient File Upload with CAPTCHA Verification, QR Code Linkage for Instant Access, Suggested Relevant Topics, and Read-Only Thesis Document. The researchers leveraged the collected data to inform the design during this implementation phase. Thesis Central Web Application is a web-based system for students to upload documents and access library resources. The system has five entities, TUPian, NonTUPian (Non-TUP) and Administrator, Librarian, and Assistant. The development tools include Visual Studio Code, GitHub, Node Package Manager, Postman, and Tailwind CSS. Thesis Central web application was developed by a group of researchers at the University of Illinois at Urbana-Champaign. It was designed to be a user-friendly experience.

RESULTS

Thesis Central was developed to enhance university?s efficiency, productivity, and productivity of storing thesis. System was tested for maintainability in different test case scenarios for the different users of the system. System includes a dashboard for easy monitoring of thesis, student, and request made by the user on admin side. The system also provides a request feature which allows the student to get a downloadable copy of the thesis to be presented to the library for actual copy. System also includes a student table for admin or assigned librarian which can be used for monitoring registered students. The developed system has the following limitations: The system admin or assigned librarian can confirm, reject (can send a viewpoints message for reason why the student?s request is rejected), and delete viewpoints. The system provides a submit thesis feature for uploading a thesis from TUP students. It also allows admin to edit an existing fiercely-stored thesis stored in the system. It was tested for security in different test case scenarios for the different users of the system and the results are shown in Table 13. The system provides easy access using QR code for every thesis that is uploaded. The system allows the use of university library?s OPAC if the call number is not present upon request confirming for easy navigation of actual copy of the document. The dashboard features a hamburger menu, which includes options for urger, Requests, and User Management. Showcases the process of scanning the QR code through the webcam. Show the process for uploading a thesis. Show an image of an image taken from the web. The system includes a notification feature which helps the registered student to be informed about their thesis upload, announcement, or request update. The dashboard presents an overview showing the total number of theses, viewpoints, and requests made. The system provides thesis document sorting and filtering. Scan the QR sticker that is attached to the freshwaterphysical document. Search for a thesis using the Advanced Search Bar. Click Students to open students? module?s module. Click Cancel to cancel a thesis submission. The developed system has the following capabilities:. It provides an automated APA, MLA, and Chicago Referencing system. The system provides a read-only thesis document that is limited to 10 pages only. It allows students to view

more thesis/document related to the previous one. It has a one-time password to login and a CAPTCHA to avoid bots. It can also be used to reset an email password. It is not yet available for non-university students.

DISCUSSION

Thesis Central: Online Thesis Sharing and Library System of the Philippines ? Manila was developed with modules such as Student Thesis, User Management, and Request. The system?s performance in functionality, security, and maintainability aligns with the goals set during the development phase, ensuring a user-friendly and user-accessible platform for managing thesis documents. To further optimize the capabilities and potential of this project, as indicated by the survey, the following recommendations are hereby proposed: The system should integrate the database of all books from the university's library. The system?s administrator unique module, user management, is called TUP Student. The system should be implemented with a fee upon accessing a specific website. The development tools, including JavaScript, MongoDB, Express, React, VS Code Studio, and Node.js, greatly contribute to a robust and effective @@system. The results of the study were published in the International Journal of Information Technology and Computer. The study was conducted by the University of Portuguese Urdaneta College of Computing.