

**WEB-BASED OPTIMIZED JOURNAL-SEARCH ENGINE FOR THE COLLEGE OF
THEOLOGY LIBRARY USING ADVANCED WEB-SEARCHING AND OPTICAL-
CHARACTER RECOGNITION**

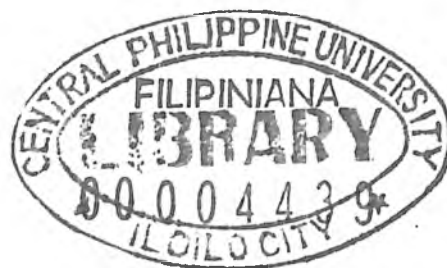
A Capstone Project
Presented to
The College of the Computer Studies
Central Philippine University
Iloilo City

In partial Fulfilment
of the Requirements for the Degree of
Bachelor of Science in Information Technology

By

Rotherford P. Marmibe
Jade Edward G. Duran
Ian Gabriel B. Alcarde
John Chrysler T. Provide

November 2018



WEB-BASED OPTIMIZED JOURNAL-SEARCH ENGINE FOR THE COLLEGE OF THEOLOGY LIBRARY USING ADVANCED WEB-SEARCHING AND OPTICAL-CHARACTER RECOGNITION

Alcarde, I. G. B., Duran, J.E.G., Marmibe, R. P., Provido, J. C. T.

ABSTRACT

The development of the Web-based Optimized Journal-Search Engine for the College of Theology Library using Advanced Web-Searching and Optical Character Recognition is created to help utilize the journals of the College of Theology Library. Through the use of the system, library patrons can search a topic on the system's search engine and the system will return journal articles that match the search query of the patron. This way the patron will know what journal to read that has an article with the topic the patron is looking for. The librarian can keep track of all the journals that are currently available in the library by uploading a soft copy and their journal details in the system to be stored in its database. Lastly, patrons can see what are the newly added journals and what journals are available in the library and the system.

Through this system, the patrons can have less time-consumption when looking for a journal they desire to read. Librarians can efficiently utilize their journals and keep track on what journals are currently available in the library and system. This system will also serve a publication of the College of Theology Library so patrons outside the university can also use the system to lookup what journals are available in the library that they might find interesting to read. The system is web-based so it can be accessed through the internet. The system and its database is secured and hosted by a virtual web server and is developed with HTML, CSS and JavaScript as its frontend, and Python and PostgreSQL as its backend.

The study followed the evolutionary prototyping model to enhance and improve each feature of the system through iterations after each evaluation from end-users until it meets the end user requirements and is ready to be deployed as the final product.