

**WEB APPLICATION FOR CENTRAL PHILIPPINE UNIVERSITY COLLEGE OF
THEOLOGY LIBRARY WITH BOOK LOCATOR**

A Capstone Project

Presented to

The Faculty of the College of Computer Studies
Central Philippine University
Iloilo City

In Partial Fulfillment

of the Requirements for the Degree of
Bachelor of Science in Information Technology and
Bachelor of Science in Information Systems

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ABSTRACT

Arduino platform has become quite popular with people just starting out with electronics, and for good reason. Unlike most previous programmable circuit boards, the Arduino does not need a separate piece of hardware in order to load new code onto the board - you can simply use a USB Cable.

The purpose of this study is to develop a Web Application for Central Philippine University College of Theology with Book Locator. The library has a thousand of books which are permanently stores in every shelf in every category. As a consequence, these books are often difficult to locate. The suggested approach facilitates the use of Arduino Technology for relocating the books. The main components of the solution are the Light Emitting Diode and a router. Also the system covers the announcement, registration, requisition, reservation, searching, account management, book profiling and feedbacks.

The development of this project will benefit the students and patrons of the College of Theology and also as the members of ATESEA. The announcement that will post an announcement from time to time, registration that will registered users to gain access in the web application, requisition that will request a book, reservation that will reserve a specific book.

This project is develop by PHP, a server-side scripting language designed for Web development and C++, a general-purpose programming language. PHP is used to develop the Web Application and C++ is used to develop the Arduino Based Book Locator.