

# **School Library System in PBTS**

A Capstone Project

Presented to

The Faculty of the College of Computer Studies

Philippine Best Training Systems Colleges

Binangonan Rizal

In Partial Fulfillment

Of the requirements for the Degree of

Bachelor of Science in Information Technology

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## **The Mission and Vision statement of Philippine Best Training Systems Colleges Inc.**

### **Vision**

The Vision of the Philippine Best Training Systems Colleges Inc. (PBTSC) is to be globally excellent in Arts, Science, Technology and Business Administration.

### **Missio**

The Mission of the Philippine Best Training Systems Colleges Inc. (PBTSC) shall serve the people by helping the government in the development of the community and doing its modest share in nation-building.

### **Core Values**

**P** - Perseverance

**B** - Benevolent

**T** - Trustworthy

**S** - Sincerity

**C** - Courage

**O** - Optimism

**L** - Loyalty

**L** - Leadership

**E** - Efficiency

**G** - Generosity

**E** - Enthusiasm

**S** - Skillfulness

### **College Goals**

The developers/researchers aim to produce students whose knowledge and competence in planning, customizing, and operating computers and computer software and thus enabling them to contribute worthwhile IT solutions to the business communities over the world.

|

APPROVAL SHEET  
COLLEGES, INC.

Binangonan, Rizal

COLLEGE OF EDUCATION

This thesis entitled **Library System for PBTS INC** prepared and submitted by **John Lloyd S. Ogena, Janssen Earl B. Uy, Ralph Enaje** and **John Kenneth L. Orbillo** in partial fulfillment of the requirements for Bachelor of Science in Information Technology , hereby recommended for approval.

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And also, to the administrator of the Philippine Best Training System **Dr. Robert G. Uy**

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## **Dedication**

We Dedicate this Capstone Project to our School, Family, and friends who helps us in our Journey to finishing this Project.

We want to thank them for their never-ending support and encouragement.  
May God bless us all.

## **ABSTRACT**

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## **Summary:**

This project aims to provide a better and modern way of storing and keeping the books owned by the school. It will help the facilitator to maintain the quantity and monitor the books being borrowed by the students. It will also help the student to easily search for the books they want to borrow.

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# **Chapter 1**

## **Introduction**

### **Project Context**

Nowadays, with the advancement of modern technology, there are a lot of fast and reliable alternatives for research. However, the library still plays a vital role in the student's and researcher's life.

The library is still considered the most accurate place for information. Undeniably, people especially those who are not having internet connections, or even electricity, rely solely on books. Libraries also supply information not found on World Wide Web. Library still remains the cheapest and the most accessible place for research. It still plays a very important role when it comes to gathering information.

This system is being conceptualized in order for the librarian to access all the books that were borrowed by the student in the school. And we also know that nowadays in this generation we are used to live with technology that's why we implement this system.

This system will also handle the basic and systematic organization of functions in the library. The system would provide a basic set of features to add/update students' information, add/update book information, search for books and manage check-in/check-out processes.

In this system, we can maintain the records of students and books and enable us to determine how many books are issued, and likewise determine the available books in the library.

### **Project Description and Purpose**

An automated library system for a school keeps all books and periodicals in the library and their check-out status. The library system also interfaces with an external relational database which stores information about the library users (students and staff), including whether they have any library items checked out; library users can access the catalog and recall books and periodicals, library admins have the same access as well as additional capabilities (e.g. listing the status of an item).

The Purpose of this library system is to improve the performance of the social library with regard to the management and the proper flow of information in the library. Through the use of this library system, the existing manual library system of PBTS Inc will be converted into a fast, usable, secured, and accurate computer-assisted library system.

We would also like to add an ebooks section in our system for students who can't afford to go to school. This ebooks section will cover different types of books genre whether it is educational or entertainment.

### **Project Objective**

The Purpose of this Project is to provide an automated and easier way of gathering information for the students of PBTS Inc. This will also help the Librarian to keep track of the books owned by the school.

This system aims to develop a library system to improve transactions with students. To provide detailed summary reports on demand stock Including monitoring of items range.



- a) This will help the Admin to monitor the number of books owned by the school and to maintain the quality of these books.
- b) To help the students gather information faster and easier.
- c) To create a modern way of gathering information. This will help the Library admin organize the number of books being borrowed and returned by students.
- d) We will also ensure that the information provided by the students will be confidential. It will be stored in the system's database.

## **Project Scope and Limitations**

This Project will be conducted to help the Library admin to have a modern and faster way of organizing the library of Philippine Best Training Systems Colleges Inc and to help the student to gather information thru the automated library system.

This system will also provide ebooks for students who can't afford to go to school. The admin can add ebooks related to the student's curriculum or needs.

This system will use different kinds of coding materials such as HTML, CSS, Java, and PHP.

### **Students in all levels (Kinder, Elementary, High School, SHS, and College)**

This system will be accessed by the student of PBTS on all levels. We will provide different sections on which they can the information that they want easily.

We will also provide research documents related to their curriculum. They can also access our Library System thru smartphones, laptops, and Computers but they will need internet access.

### **Teachers**

Can add ebooks to the library. If they think that the books they will add will help their students, they can add them to the library system. They can also guide the students on how the library system works.

### **Library Facilitator/Admin**

The Admin is the one who will facilitate the entire system. he/she will be responsible for the quality and quantity of the books owned by the school.

The developers will need the help of the current school library admin so that we will know what kind of books we can add. It will help us to improve our system.

**Location of the Study**

The study will be conducted in Philippine Best Training System Colleges Inc., located in 530 Manila East Rd., Macamot Binangonan Rizal.

PBTS Colleges Inc. is a non-sectarian, international standard, and exclusive U.P.-based curriculum school established in 2007. Accredited by the Commission on Higher Education and fully recognized by the Philippine Government PBTS provides quality education to prepare students both locally and abroad. The school caters to Filipinos in rural areas with its advocacy to help send every Filipino to school leaving no one behind, with the motto “To be the Best, Start with the Best” PBTS has produced globally competent students who are now working in their respective fields all around the world.

The founder started tutoring the youth and adults for educational enhancement. He started a mobile tutorial at the age of 18 tutoring children ages 4 and above in Reading, Writing/Arithmetic, and offering adult learning programs in Bookkeeping, Steno-Typing, Computer Operations, Preparation of Feasibility Studies, and other proposal for adult enhancement programs.

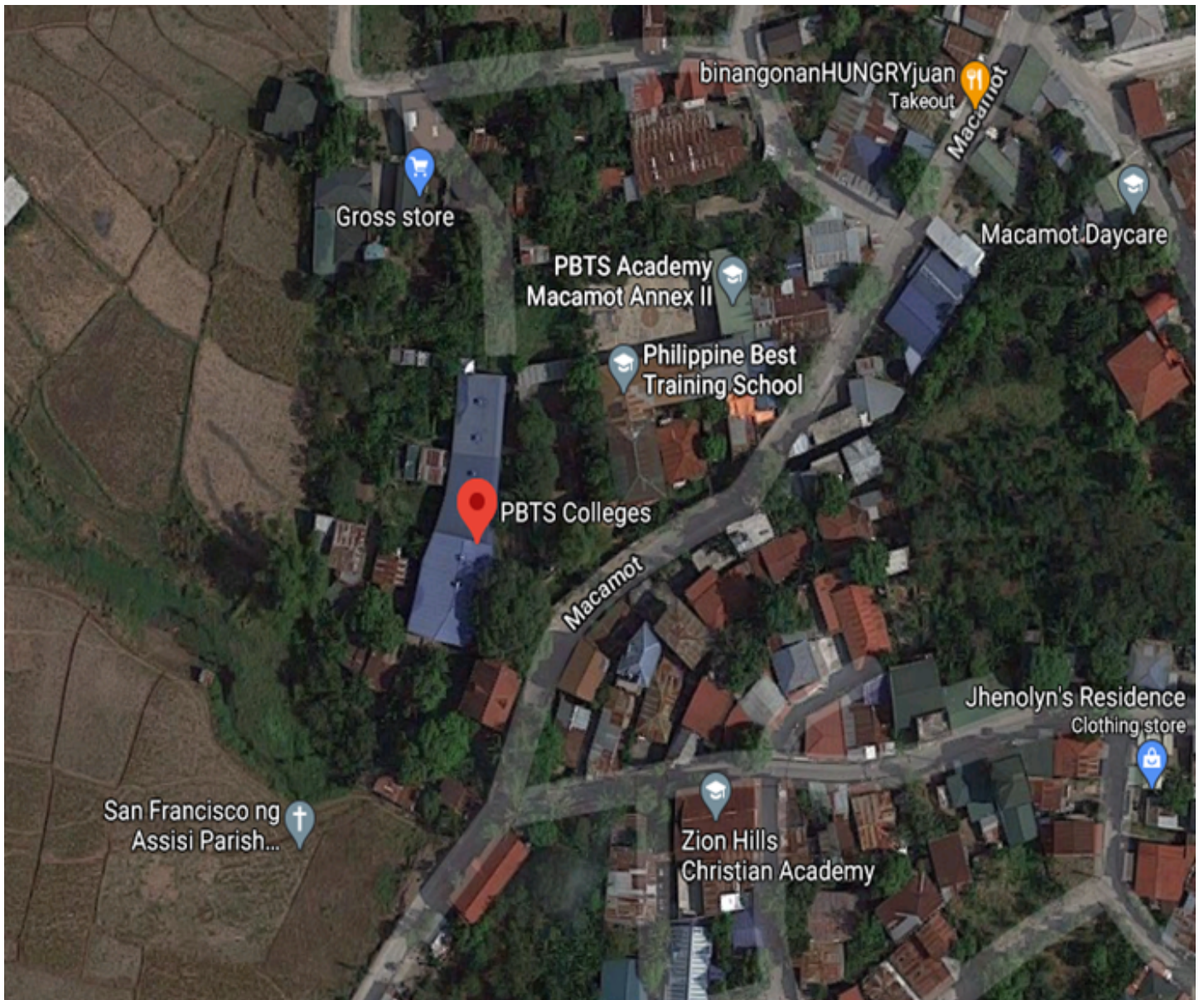


Figure 1: PBTS Colleges Inc.,

## Project Definition of Terms

**Library** - a building or room containing collections of books, periodicals, and sometime films and recorded music for people to read or borrow.

**HTML** - HTML (Hypertext Markup Language) is a text-based approach to describing how content contained within an HTML file is structured. This markup tells a web browser how to display text, images, and other forms of multimedia on a webpage.

**CSS** - CSS (Cascading Style Sheets) is used to style and layout web pages — for example, to alter the font, color, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features

**JAVA** - Java is an object-oriented programming language that produces software for multiple platforms. When a programmer writes a Java application, the compiled code (known as bytecode) runs on most operating systems (OS), including Windows, Linux and Mac OS.

**PHP** - PHP is an acronym for "PHP: Hypertext Preprocessor" PHP is a widely-used, open-source scripting language. PHP scripts are executed on the server. PHP is free to download and use.

**Automated** - operated by largely automatic equipment.

**Admin** - the administration of a business, organization, etc

**Capstone Project** - A Capstone Project is a multifaceted body of work that serves as a culminating academic and intellectual experience for students.

**Catalog** - a complete list of items, typically one in alphabetical or other systematic order.

**Database** - a structured set of data held in a computer, especially one that is accessible in various ways.