

# **DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY**

## **LIBRARY MANAGEMENT SYSTEM**

### **PROJECT PROPOSAL**

#### **SUBMITTED BY**

##### **1. INTRODUCTION**

Information Technology has revolutionized the life of human beings and has made lives easier by the various kinds of applications. In the light of the rapid changes with the use of Information Technology, there are many tools, technologies and systems that have been produced and invented.

The main objective of this project is to develop a Library Management system (LMS) for Christ Apostolic University College in order to automate the library tasks and make the library management more efficient and easy to handle. Library is place where all kind of books are available in hard copy or digital format.

The library management system enables a fully automated library service and will be a web based application where only registered users will have access to the system. Library Management system will be developed to automate the task of entering the records of new book and retrieving the details of books available in the library, the transactions of books and the details of book holders. Privileged users can issue books to registered library members, maintain their records, check how many books are issued and how many books are available in the library.

This system provides separate interface and login for librarian, students and guest users who browse the system for books. Also maintain the late fine of library member who return the issued book after the due date.

In the proposed system, we assume that each member will be having an identity card which can be used for the library book issue, fine payment etc. Users can recommend new books to the librarian; they can view the issue and return dates of any book and due they have to pay.

## **2. PROBLEM STATEMENT**

Library management system is a project which aims at developing a computerized system to maintain and automate all the daily work of library.

In the existing system at Christ Apostolic University College (**CAUC**) all the transaction of books such as borrowing and returning are done manually which takes time to complete.

Another major disadvantage is that to prepare the list of books borrowed, returned and the available books in the library takes at least a day to complete this process.

Library management system is a project which aims in developing a computerized system to maintain all the daily work of library.

- Inconsistency in data entry, room for errors.
- System is dependent on good individuals.
- Time consuming and costly to produce reports.
- Lack of security.
- Duplication of data entry.
- Fast report generation is not possible
- Tracing a book is difficult
- Information about issue/return of the books is not properly maintained
- No central database

The “Library Management System” mainly focuses on basic operations in a library like adding new member, new books, and updating new information, searching books and members and facility to borrow and return books.

This project has many features which are generally not available in the current library management systems such as user login, teacher’s login and guest login. The privilege user is able to generate different kinds of reports like lists of

students registered, list of books, issue and return reports. “Library Management System” is designed to help users maintain and organize library. Overall this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts. With this computerized system there will be no loss of book record or member record which generally happens when a non-computerized.

### **3.1 PROJECT AIMS, SCOPE AND OBJECTIVES**

The main objective of this proposed Library management system is to fully automate all the daily works of the Christ Apostolic University College Library.

Other Aim and objective of Online Library Management System includes:

- Create distinct users privilege based on their roles and permissions.
- Authenticate users at their login.
- Provide the list of books the users can borrow.
- Reserve books that are available.
- A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any.
- An interface to view and edit the own profile.
- Mechanism to reset the password in case user forgets it.
- Providing interface to add or delete books to staffs.
- A search column to search availability of books by guest or library users.
- Reduce the workload of employee.
- All details will be available on a click.
- Generate weekly, monthly and annual reports.

## **3.2 SCOPE**

The Library Management System Application keeps track of all the information about the books in the library, their cost, their complete details and total number of books available in the Library. The user will find it easy in this automated system rather than using the manual writing system. The system contains a database where all the information will be stored safely. The system is user-friendly and error free.

This project will help to track all the book and library information and to rate the maximum number of books, the visitors wished to read. The software will be able to handle all the necessary information.

#### **4. LITERATURE REVIEW**

A review of literature reveals that a computerized library management system will:

- Help to improve the library services.
- Help the Liberians with management information.
- Help the librarian in reporting on the various operations of the library.
- Increase the rate at which Tasks are completed accurately
- Obviate the need to hire additional staff with increased demand for services.