**LIBRARY MANAGEMENT SYSTEM**

A Synopsis of Minor Project

Submitted for the partial fulfillment of

Diploma computer Engineering



**Under The Supervision of Dr. Puneet Sood**

**SUBMITTED TO SUBMITTED BY**

Dr. Puneet Sood Parth Narayan (170610404039)

Head of Department and Supervisor Parveen Chaudhary

Computer Engineering Sagar Chaudhary (170610404048)

Sahil Pathania (170610404049)

Saurav Dhiman (170610404059)

**GOVT. POLYTECHNIC KANGRA**

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**INDEX**

**CHAPTER NO. TOPICS PAGES**

**1 Introduction 3-4 2 Literature Review 4 3 Methodology 5-8**

4.1 Objective

4.2 Scope

4.3 Process

4.4 Modules

4.5 Tools and Technology

4.6 Languages used

**4 Summary 8-10**

4.1 Limitations

4.2 Future Scope And Enhancement

4.3 Conclusiom

**5 Bibliography 10**

**Project Synopsis**

* **Title Of the Project:**

**LIBRARY MANAGEMENT**

**CHAPTER 1**

**Introduction**

This project is aimed at developing a DESKTOP application that depicts offline issuing of books and returning of books.

Using this software, libraries can improve the efficiency of their services. Library management is one of the applications to manage the library easily. This application involves all the features .

Management software for monitoring and controlling the transactions in a library .The project “Library Management System” is developed in php, which mainly focuses on basic operations in a library like adding new books, and updating new information, searching books and members and return books.

This project of “LIBRARY MANAGEMENT” of gives us the complete information about the library. We can enter the record of new books and retrieve the details of books available in the library. We can issue the books to the students and maintain their records and can also check how many books are issued and stock available in the library. In this project we can maintain the late fine of students who returns the issued books after the due date.

Throughout the project the focus has been on presenting information and content in an easy and intelligible manner. The project is very useful for those who want to know about Library Management System. The project Library Management System aims at developing a fully functional computerized system to maintain all the day to day activity of a library

This project has many features which such as the facility of user login and teachers login. Also on the top of all this, there is an admin who will be managing the entire application’s authorization and authentication, not any intruder can login and modify the data, as a login for admin is also available

**CHAPTER 2**

**Literature Review**

Library is regarded as the brain of any institutes, of course many institute understand the importance of the library to the growth of the institute and their esteem users which we categorically call the students. An integrated library system, also known as a library management system is an enterprise resource planning system for a library,used to track items owned, publishers details author details, and users who have borrowed .The Library Management System is a Library Management software for monitoring and controlling the tasks in a library ). Library Management System supports the general requirement of the library such as the acquisition, ,circulation and other sectionsBefore the advent of computer in modern age there are different methods of keeping records in the library. Records are kept in the library on shelves and each shelf are labelled in an alphabetical or numerical order, in which the categories of books available are arranged on different position on the shelves and as well are recorded on the library manuscript and when any book is to be referenced the manuscript is being referred to, to know the position of such required book by the person that requested for the book .After the invention of computedifferent researchers have carried out various approach on an automated library management system in which this project is as well all about .The first library management system to be reviewed is the KOHA library management system. Since the original implementation in1999, KOHA functionality has been adopted by thousands of libraries worldwide, each adding features and functions, deepening the capability of the system. With the 3.0 release in 2005, and the integration of the powerful Zebraindexing engine, KOHA became a viable, scalable solution for libraries of all kinds. Lib Lime KOHAis built on this foundation. With its advanced feature set, Lib Lime KOHA is the most functionally advanced open source Integrated Library System in the market today. The major setback of this Library Management System is that it is a web based and as a result

As the research involves qualitative data as well, researches will be made at the initial stage of the research making enquires to get as much primary data as possible from as many librarians as possible whenever there is opportunities to understand the subject better

**CHAPTER 3**

**Methedology**

* 1. **Objective of the project:**

This projects helps Librarian to issue and add a book to the database and new updates easily. It is designed such a way that student can view all the books available in library offline . The project will help in easy maintaining and updating books in the library for the Admin. As the new system will be computerized, the database will be automatically updated at the time of entry. Everything will be done automatically just by clicking few buttons. There will be no need to maintain any files or registers.The software 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 inthis automated system rather than using the manual writing system. The system contains a databasewhere all the information will be stored safely. The system is user-friendly and error freeThe system keeps track of all the books readily available and also the books that have been issued to various readers for the time period for which the books have been issued. The system also handles books database. If the reader needs a book, he can order the book request for home delivery by just submitting an online form. Readers usually tend to forget the date to return their library books, so this system even calculates fine depending on the expiry date. Thus this innovative library management system provides enhanced library functionality for this modern world.

* 1. **Scope of the project:**
* This system will reduce the risk of data mismanagement at any level while the project development is under process.
* And also generates the various reports for analysis. Hence this project can be used in any library to maintain their record easily.
* Offline viewing of Student information. • Offline editing of Student information. • View and update information

**3.3 Process**

proposed library management software is developed after the analysis of issues, problems, and drawbacks of the existing system. Here, different modules have been assigned for managing and organizing different [tasks](https://www.codewithc.com/task-management-system-project-asp-net/) in a library. Using this software, librarian can store information of all the books, with author name, faculty, etc., available in the library. Only one person can handle the entire library.\

**3.4 Modules**

The various modules of this system areas

### ADMIN LOGIN Module:

#### LOGIN PAGE:

To sign up an admin to this system

This module is further divided into various sub-modules describing the user in a better way:

#### 1.1 ADD BOOK:

The Admin can add a new book in the library based on book name,book no. , author name,quatity.

#### 1.2 ISSUE BOOK:

To help the Admin to issue a book to a student.

#### 1.3 VIEW BOOKS:

To help the Admin get the books in the library.

#### 1.4 VIEW ISSUED BOOKS:

To help the Admin get the issued books in the library.

#### 1.5 RETURN BOOK:

To return the book .

### STUDENT LOGIN Module:

#### LOGIN PAGE:

To sign up a student to this system

#### New user register:

To sign up a new user to this system

This module is further divided into various sub-modules describing the user in a better way:

#### 2.1 AVAILABLE BOOKS:

To help the student get the available books in the library.

**3.5 Tools and Technologies used**

Software Requirement:

* Windows 7,8,10
* Eclipse
* MySql Command Line or Oracle

Hardware Requirement:

* Processor: Pentium 4 and above
* 2 GB RAM or Higher

**3.6 Languages used:** java

**CHAPTER 4**

**SUMMARY**

Presently, there are a number both indigenous and international library applications packages available in India. However, the selection of appropriate application package for implementing a successful integrated library system that will cater to the needs of academic libraries in India has been a challenging task for librarians. Although, a number of library softwares packages were developed in this direction by research and development libraries in India. But, only few of those application survived, while the rest did not last long due to their shortcomings to fulfill the international standards. Against this backdrop, many Indian libraries switched over to international software packages to overcome these drawbacks. Notably, the libraries associated with research and development centers and large academic libraries in India are using standard library management Application to enhance their operations and services. On the other hand, the condition of services and operations of most of the academic libraries is unsatisfactory.

**4.1 LIMITATIONS**

* Student should have library cards.
* Students who are not familiar with English language can’t use this software.
* Costly and Expensive
* Unlike online systems that utilize cloud computing, Open-source systems store data on computer hard drive. This increases the risk of data loss
* The automation feature is not available in offline/ open source systems thus, requires manual action to perform operations
* The automation feature is not available in offline/ open source systems thus, requires manual action to perform operations
* has data stored is prone to cyber hacks. Opting for a reliable online system eliminates the risk

**4.2 Future scope and further enhancement**

* As the technology emerges, it is possible to upgrade the system that will be adaptable to desired environment.
* Based on the future improvement, in this project the password can be changed in every login. Here we can add username also if the any of the student or other module wants to change their username he/she can change.
* We can add additional registration for faculty login and parent’s login.
* If students uploads any assignment that assignment can be viewed by the faculty.

**4.3 CONCLULSION**

This project is mainly help to all Computer Engineers especially those who are interested in taking Computer Science as their career. Display all technical aspects going in around IT institute. This site is useful for everyone since we all are related to technology in one or other sense. With this project young guys also take interest in all over management because it is an interesting, fair and trendy way of all solutions of problems and to make India advance

In order to accommodate additional features it will take longer time and effort to understand the requirement and converting it into computerized system.

**CHAPTER 5**

**Bibliography**

For Preparing/completion of this project I consult various books and some online help. Those are described below:

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