

LIBRARY MANAGEMENT SYSTEM

Done by

Prince Siddharth -1901144

Suman Kumar- 1901201

Shirish kumar - 1901185

INTRODUCTION:

Library management system is a project which aims in developing a computerized system to maintain all the daily work of the library. This project has many features like facility of user login and admin also. Admin can monitor the whole system, It has facility where student after logging in their accounts can see list of books issued and its issue date and return date and also student can request the librarian to add new book by chatting or feedback

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 human efforts.

PROJECT AIMS AND OBJECTIVES:

The project aims and objectives that will be achieved after completion of this project are below
The aims and objectives are as follows:

- online book issue
- request column for librarian for providing new books
- student login page where student can find books issued by admin and date of return
- a search column to search availability of books
- a admin page admin can login and see student information , add books

BACKGROUND OF PROJECT:

Library management system is an application which refers to a library system. It is used by librarians to manage the library using a computerized system where they can record various transactions like issue of books, return of books, addition of new books, addition of new students etc.

Books and student maintenance modules are also included in the system which track students detailed and books a library contains.

If the user's position is admin ,the user is able to generate different kinds of reports like lists of students registered, list of books, issue and return reports.

FUNCTIONAL REQUIREMENTS:

User login:

This feature is used by the user to login into the system. they are required to enter user id and password before they are allowed to enter the system. The user id and password will be verified and if invalid id is there user is allowed to not enter the system

Requirements:

- User id provided when they register
- The system must only allow user with valid id and password to enter the system

- The system performs an authorization process which decides what user level can access to.
- The user must be able to logout after they finished using system
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REGISTER NEW USER:

This feature can be performed by all users to register new users to create accounts.

Requirements:

- System must be able to verify information
- System must be able to delete information if information is wrong.

REGISTER NEW BOOKS:

This feature allows to add new books to the library

Requirements:

- System must be able to verify information
- System must be able to enter number of copies into table
- system must be able to not allow two books having same book id

SEARCH BOOKS:

This feature is found in the book maintenance part. We can search book based on book name

Functional requirements:

- System must be able to search the database based on select search type
- System must be able to filter book based on keyword entered
- System must be able to show the filtered book in table view

ISSUE BOOKS AND RETURN BOOKS:

This feature allows users to issue and return books and also view reports of book issued.

Functional requirements:

- System must be able to enter issue information in the database.
- System must be able to update the number of books.
- System must be able to search if book is available or not before issuing books
- System should be able to enter issues and return date information.

SOFTWARE AND HARDWARE REQUIREMENTS:

This section describes the software and hardware requirements of the system

Software requirements:

- Operating system - Windows 10 is used as the operating system as it is stable and Supports more features and is more user friendly.
- Database - Mysql is used as database as it easy to maintain and retrieve records by simple queries which are in english language which are easy to understand and easy to write
- Development tools and programming language - HTML is used to write the whole code and develop web pages with CSS, JAVASCRIPT for styling work and PHP for server side scripting.

Hardware requirements:

- Intel core i3 10 generation is used as a processor, we can run our ps for longtime by using this processor we can keep on developing our project without any worries.
- RAM 1 Gb is used as it will provide fast reading and writing capabilities and will in turn support in processing

SOFTWARE TOOLS USED:

The whole project is divided in two parts the front end and the back end

Front end:

The front end is designed using html, php css javascript

Back end:

The back end is designed using mysql which is design the databases

CONTRIBUTION:

Back end - prince Siddharth, suman kumar and shirish kumar

Front end - suman kumar and shirish kumar, prince Siddharth

Home page -prince

Login and logout -prince

Registration -suman

Book - shirish

navbar-suman

Feedback - prince

Message shirish

Profile -prince

Edit- suman

Add book- shirish

