

Mini Project Report on Software for Library Management

By:

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PROBLEM STATEMENT:

Software for Library Maintenance.

BRIEF MOTIVATION:

Libraries plays an important role in the field of education. It enhances the knowledge of a person.

In this modern era, we all became digital in our work. I learnt C++ (Object Oriented Programming) this semester, that's why I created a software for library maintenance.

In digital times, they're needed than ever before. We make a great use of libraries such as in our college, schools, society etc. If all the information will be kept as a manual working, then it would be a great loss of paper and time. Thus this project will help to solve this problem and to create a digital and electronic platform for library

TOOLS USED:

- Codeblocks.
- C++

METHODOLOGY:

Introduction:

Owing to the advancement of technology, organization of an Online Library becomes much simple. The Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues and returns and all other operations.

This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced. It can help user to manage the transaction or record more effectively and timesaving. It reduces the risk of paper work such as file lost, file damaged and time consuming.

Scope of project:

- To make it essential and useful.
- To provide a user-friendly environment
- To make functioning of library faster.
- For keeping the records of library up to date.
- To keep records without any errors.
- To minimize the loss done to books.

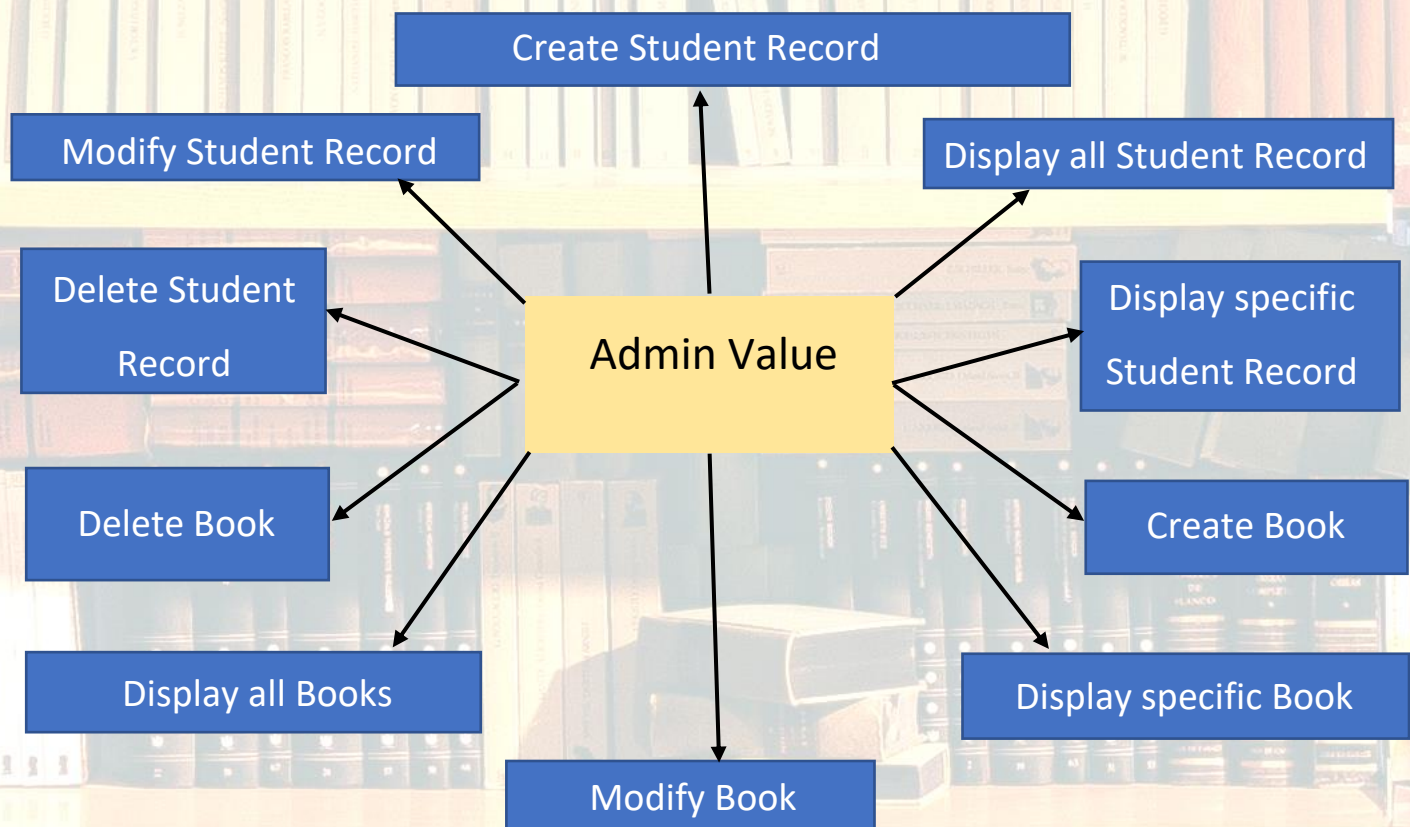
Objective:

The main aim of this project is to develop a system that can handle and manage the activities involved in a library in an efficient and reliable way. Less managing, easy searching availability and a user-friendly environment for library maintenance.

Software Description:

The first page contains the welcome page. There you have to enter the password to access the software. If the password is incorrect it will give you attempts and if failed then it will exit by itself.

After the login you can either select the option of book issue, book deposit or the admin menu.



From the admin menu, you can easily create, delete, modify or display specific or all list of students and books. You can create a student's record using name and the admission number. And to create the book record, you need to have the book's name, author's name, publisher's name, the total quantity and it will automatically allot the book number. Thus, all the internal work from the admin menu can be done from here.

If you want to issue a book, it will show all the list of available books with their serial numbers and after that decrease the quantity of the book which is present according to the number of books issued.

Similarly, when you deposit the book, it will display your information about the book you have issued using your admission number. It will show the name of the book, publisher's name, author's name and the fine which you'll be charged after the 15 days.

Conclusion:

In this application, we can entry a new book or student and can delete or modify. It'll help admin to do this various information and issue or return a book, all he needs to click just a button on our application without any errors. This application is easy to use and better to understand than the manual work.