**LIBRARY DATABASE MANAGMENT SOFTWARE**

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**Goal:**

To develop a Library Management Software which enables the librarian to issue books to students, issue fines to students if due date is passed and, add, modify or delete existing books in the database

**Introduction:**

In this project we have made a simple library management software. It enables the student to see the book available in the library and the student can ask the librarian to issue those books to him.

On the other hand, the Librarian is the admin of the program, he can issue books to students, add new books, modify them etc. He can also maintain records of the book issued and to which student.

He also maintains the records of the amount of books left of a particular title.

**System Users:**

There will be 2 main users of this management system

1. Student
2. Librarian

**List of Features:**

1. **Librarian:**
2. Login to the system (password required).
3. Ability to change account password.
4. Add new books.
5. Modify existing books.
6. Delete existing books.
7. Issue and Re- issue books to students.
8. Charging Fine from students who fail to return their book on time.
9. **Student:**
10. Get required books issued.
11. The student can also get the previous book re-issued.

**Tools and Techniques used:**

The Programming Language used will be C++ and the IDE used will be VS Code.

Filling will be done to store student’s data in the backend.

**Programming techniques used:**

1. Object Oriented approach
2. Filing
3. Pointers
4. Functions
5. Admin/User Scenario

**Future Work:**

I would like to expand this model in the form of Multiple branches of the library, also I would include more user such as Faculty, Students and Visiting Faculty etc.