**CS1411 (Computer Programming Lab)**



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Computer Programming (Project)

**Introduction:**

The Library management system is to operate a library with efficiency and at reduced costs. The system is entirely automated and streamlines all the tasks involved in the operations of the library. The activities of book purchasing, cataloging, indexing, circulation recording, and stock checking and so on are done by the software.

**Problem Statement:**

Provide a solution that consists of two interfaces of admin and user, in which the user and admin should log in first for any task. Other approaches and operations will be divided into these two interfaces.

**Features:**

**Admin:**

1. Add Books: The admin has the ability to add books from the library's inventory. The Admin can effectively manage the library's collection thanks to this function.

2. Manage Library Members: The Admin can edit, add, or remove member profiles to manage library users. The accuracy and correctness of the library's membership data are ensured by this function.

3. Create Reports: The library's administrator may create reports on its collection, users, and circulation activities. The Admin can easily keep an eye on the library's activities thanks to this functionality.

4. Add New Books: The library can have new books added by the administrator. The library may use this function to keep up with new publications and grow its collection.

5. Delete Books: The administrator has the power to remove books from the library's stock. The Admin may efficiently manage the library's collection.

**User:**

1. Book Search: The User can do a book search by author, title, or subject. This function aids the User in finding the appropriate book quickly.

2. Request for Books: The user has the option to select books to be checked out. The User may easily obtain the book they require thanks to this functionality.

3.Recommendations: Users can get personalized book recommendations based on what books are available, which can help them find new books.

4. Feedback: Users can provide feedback on how to make the library management system better by leaving comments or ideas. This will assist the library in meeting the requirements of its patrons and continuously enhancing the user experience.

5. Submit Fines: The "submit fines" function in a library management system enables patrons to send money for fines imposed by the library.

6. Holds and Reserves Books: Users have the option to reserve things that will soon be accessible or place holds on items that are presently being checked out by other users.

7. User profiles: Each user has their own area within the program to personalize their settings, access account-specific information, or view additional personalized data.

**Conclusion:**

In conclusion, creating a software system with two user interfaces and one admin interface is the proposed solution to the library management challenge. Users will be able to interact with the library system and get access to the books they require through the user interface, while the admin interface will offer functions for controlling the library's inventory and users.