

# LIBRARY MANAGEMENT SYSTEM

## SEMESTER PROJECT

We will be developing a comprehensive Library Management System for a local library. Libraries offer a diverse range of services, including cataloging, lending, and returning books, maintaining media resources, and supporting various user needs. The library is equipped with a wide collection of books and media, and it serves a diverse user base consisting of students, faculty, and community members. The Library Management System will facilitate an organized and user-friendly approach to managing the library's daily operations, making it easier for users to access, borrow, and return books. The system will also provide tools for librarians to maintain the catalog, track due dates, and manage user accounts. Additionally, it will allow users to reserve books, browse the library's collection, and update their profiles, promoting a seamless and engaging library experience.

### THE SYSTEM SHOULD PROVIDE THE FOLLOWING CORE REQUIREMENTS

- Allow the users to browse and search for books.
- Allow the users to check out and return books.
- Allow the users to book reservations for unavailable books.
- Allow the users to personalize their accounts.
- Allow the administrator to add, update, and delete book records.
- Allow the administrator to manage user accounts with registration and authentication.
- Allow the administrator to set fine rates and grace periods, etc.
- Allow the users to view late fines for overdue books through their profiles.

These requirements cover various aspects of a comprehensive Library Management System, ensuring that both users and administrators have the tools and functionalities needed to manage library resources effectively.