

## Scope of Library Management System

1. User management
  - 1.1 Allow users to register and log in securely through authentication process
  - 1.2 Assign and manage user roles
  - 1.3 Update or delete user accounts
2. Book and catalog management
  - 2.1 Add new books to library database (include title, author, ISBN, and category)
  - 2.2 Edit or remove existing book records
  - 2.3 Search books by title, author, ISBN, or category
  - 2.4 Categorize books for browsing and filtering
  - 2.5 Display book availability status (available, borrowed, on hold)
3. Borrowing and returning system
  - 3.1 Allow members to borrow available books and record due dates
  - 3.2 Allow libraries to process book returns and update availability
  - 3.3 Maintain borrowing and returning logs
  - 3.4 Calculate overdue fines based on return date
  - 3.5 Notify members of overdue books
4. Reservation system
  - 4.1 Allow members to place unavailable books on hold
  - 4.2 Notify members when their hold become available
  - 4.3 Automatically update database as books are returned
5. Reports and administration
  - 5.1 Generate reports on overdue books and collected fines
  - 5.2 Track user activity and borrowing history
  - 5.3 Backup system to ensure system reliability
6. System and interface
  - 6.1 Provide intuitive web-based user interface
  - 6.2 Implement role-based dashboards
  - 6.3 Ensure secure access with authentication controls
  - 6.4 Ensure data protection and compliance with privacy regulations