

Core Functionalities:

Member Management:

- Add, edit, and delete member information (name, contact details, membership type, etc.)
- Search for members by name, ID, or other criteria
- Track borrowing history and fines

Book Management:

- Add, edit, and delete book information (title, author, genre, ISBN, publication date, availability, etc.)
- Search for books by title, author, ISBN, or other criteria
- Manage book categories and subcategories
- Include cover image support for a visually appealing interface

Advanced Functionalities:

- **Book Borrowing and Returning:**
 - Allow members to borrow and return books using a user-friendly interface.
 - Track due dates, calculate fines for overdue books, and generate notifications.
 - Implement a reservation system for books that are already borrowed.
- **Reporting and Analytics:**
 - Generate reports on various aspects of library usage, such as most popular books, borrowing trends by member category, overdue books, etc.
 - Allow sorting and filtering of reports for deeper insights.
 - Consider data visualization techniques like bar charts or pie charts to present reports visually.
- **User Roles and Permissions:**
 - Implement different user roles (administrator, librarian, member) with varying levels of access and permissions.
 - Restrict access to sensitive functionalities based on user roles.

1. **Form 1: Welcome Page**

- Displays a welcome message, logo (optional), and brief system introduction.
- Might offer options to log in (if using user roles) or proceed directly to core functionalities.

2. **Form 2: Main Menu**

- Provides a central hub for accessing all core features of the system.
- May include buttons or menu items for member management, book management, borrowing/returning, and searching.

3. **Form 3: Member Management**

- Handles adding, editing, and deleting member information.
- Might include search functionality for existing members.

4. **Form 4: Book Management**

- Facilitates adding, editing, and deleting book information (title, author, ISBN, etc.)
- Offers search capabilities based on various book attributes.

5. **Form 5: Borrowing/Returning**

- Manages the borrowing and returning processes of books.
- Tracks due dates, calculates overdue fines (if applicable), and updates book availability.