

Library Management System Requirements

Functional Requirements:

Things the system needs to do

1. User Management:

- ❖ The system allows adding a new user (Admin / Librarian / Member):
 - The user enters: Name, Email, Role.
 - The email address is Unique.
- ❖ The system allows login and logout:
 - Login using Email + Password.
 - If the data is incorrect → Clear error message.

2. Book Management:

- ❖ Add a new book to the library:
 - Book data:
 - Book Number.
 - Book Title.
 - Book Author.
 - Book Category.
 - Book number of copies.
- ❖ Book data editing is available:
 - The librarian can change the book data.
- ❖ Deleting a book from the system Only allowed if Every copy is original and not borrowed So we don't delete a book someone else has borrowed.
- ❖ Search for a book:
 - The search should be by:
 - Book number.
 - Book Title.
 - Book Author.
 - Book Category.
- ❖ View Book Details:
 - Book Title.
 - Book Author.
 - Book Is Available?
 - Number of Copies Available.

3. Borrowing System:

- ❖ Members can borrow up to 3 books. If a book is unavailable, a notification will be sent.
- ❖ Returning the book:
 - The system will record the returning date if it is late makes a fine on the member.
- ❖ The fine is calculated automatically.
 - 50 pounds for each day of delay, shown to the member before any new loan.

4. Reports:

- ❖ Current Borrowed Books Report and Report on Late Books:
 - Displays:
 - Member Name.
 - Book Title.
 - Borrowing Date.

Non-Functional Requirements:

How the system works

1. Security:

- ❖ Passwords are encrypted and no normal member is allowed to edit books.

2. Usability:

- ❖ Simple user interface.

3. Reliability:

- ❖ The data is saved even if the system suddenly shuts down.

4. Maintainability:

- ❖ The system can accommodate the addition of new features in the future.

Stakeholders:

- ❖ Admin.
- ❖ Librarian.
- ❖ Library Member.
- ❖ Software Developer .