

Business Requirements Document (BRD)

1. Project Title

Library Management System (LMS)

2. Business Purpose

To digitise and streamline library operations by replacing manual record-keeping with a modern web application. The LMS allows efficient management of users and books while providing an intuitive interface for members to borrow and return books.

3. Scope of the Project

The system includes the following features:

- Librarian role (Admin): Manage books, users, and lending records.
- Member role: Search for books, borrow and return them and reserve books.
- Authentication: Secure login with password encryption and role-based access control.
- Book tracking: Track status of each book (available, borrowed, reserved).
- Reservation system: Members may reserve unavailable books.
- Borrowing history: Admin can view past and active borrow records.

4. Stakeholders

- Librarians – System administrators managing data and access.
- Library Members – End users who interact with books and borrowing.

5. Business Objectives

- Automate and simplify the library workflow.
- Implement basic user roles with restricted access.
- Enable accurate tracking of borrowed and reserved books.
- Improve user experience for both librarians and members.
- Implement core functionalities in a scalable, secure system.

6. Functional Requirements

- User Management: Register, login, reset password, update profile.
- Role-Based Access: Admin (Librarian) and Member roles.

- Book Management: Add/edit/delete/search books; manage status.
- Borrowing System: Borrow and return books
- Reservation System: Reserve books that are currently unavailable.
- Borrowing History: Admins can view active and past borrowings.

7. Constraints

- Max 3 books borrowed at any one time.
- Reservation allowed only when the book is not available.
- Each book is treated as a single-copy item.

8. Deliverables

- Fully functional web-based LMS (React + Spring Boot + MySQL).
- Updated BRD, SRS, user manual, and system design documents.
- Working authentication and role-based access control.
- Admin and Member user flows with clear interfaces.
- Deployment-ready project code with documentation.

9. Definition of Done

- Core features implemented.
- System runs without critical bugs.
- Authentication and access roles tested.
- Admin and member features work as intended.
- Complete documentation submitted.