Business Requirements Document (BRD)

Library Management System (LMS) - Beginner Tier

1. Introduction

- **Project Name**: Library Management System (LMS)
- **Objective**: Develop a basic web-based Library Management System using **Spring Boot (backend), React (frontend), and MySQL (database)** that allows users to register, add/view books, search books, and borrow books.
- **Business Need**: Libraries relying on manual tracking often face inefficiencies, misplaced books, and slow transactions. The LMS aims to automate these processes, ensuring better accuracy and user experience.

2. Business Goals & Benefits

- **Improve Efficiency**: Automate book management and borrowing processes.
- **Enhance Accessibility**: Allow members to search for books and track borrowing history online.
- **Basic Functionalities**: Implement a minimal viable product (MVP) focusing on user registration, book management, and simple borrow/return functions.

3. Stakeholders

Role	Responsibilities
Librarian (Admin)	Add and manage books.
Member	Register, search for books, and borrow books.
Developers	Junior developers building the LMS

4. Scope

In-Scope:

- User Registration (Basic validation)
- Book Management (Admin adds/view books)
- Book Search
- Borrowing & Returning Books

Out of Scope (For Now):

- Membership validation rules
- Fine calculations
- Advanced search filters
- Mobile application

5. Key Features

Feature	Description
User Registration	Members can register with basic details.
Book Management	Admin can add and view books.
Book Search	Users can search books by title.
Borrow Books	Users can borrow books and change book status.
Overdue Notifications (Optional)	Simple notification for overdue books (static date).

6. High-Level Requirements

ID	Requirement
BR-01	Users must be able to register and log in.
BR-02	Admin can add new books to the system.
BR-03	Users can search for books by title.
BR-04	Users can borrow books, updating the book status.
BR-05	(Optional) Display notification if a book is overdue.

7. Assumptions & Constraints

- System should be accessible via web browser.
- Database should store books and user details.
- Overdue tracking is static for now.
- Security features such as encryption and advanced authentication are not prioritized at this stage.

8. Success Metrics

- System successfully registers users and allows them to search for books.
- Admin can add books to the system.
- Users can borrow books, and the system updates their status.