## **Book Lending System - Full Stack Project Requirement**

Project Name: Book Lending System
Objective:
Build a local full-stack application where users can borrow and return books. Admins can manage
the book inventory and monitor lending activity.
Core Features:
1. User Roles
- There are two roles: User and Admin
- Role can be selected during login (authentication not required)
2. For Admin:
- Add new books with:
- Title
- Author
- ISBN
- Total copies
- Short description
- Edit or delete books
- View list of all books and their availability
- View borrowing history for all users
3. For Users:
- View available books

- Borrow a book (only if copies are available)

- View currently borrowed booksReturn a book
- 4. Book Details Page:
- Show full details of the book
- Show total and available copies
- Borrow button should be disabled if no copies are available
- 5. Borrowing Logic:
- When a book is borrowed, reduce available copies
- When returned, increase available copies
- Prevent the same user from borrowing the same book twice without returning it first

## Challenging Requirement:

Implement return deadline tracking and show which books are overdue for return.

## Data to Store:

- Users (basic info and role)
- Books (title, copies, etc.)
- Lending records (user ID, book ID, borrow date, return date)

## Demo Expectations:

- Local demo with working User and Admin functionality
- Book list, lending, returning, and admin reports
- Basic input validations
- Simple and clean UI to demonstrate all features clearly