Project Requirements Document (PRD)

Title: Library Management System

Overview

This web application helps libraries manage books, members, loans, and fines efficiently. Admins can manage the entire library, while users (members) can view their dashboard, check their loans, and see any fines. The system supports book CRUD, member management, loan tracking, and fine calculation, all with a modern, responsive UI.

Goals & Objectives

- Allow admins to manage books, members, loans, and fines.
- Enable users to view their loans and fines.
- Provide secure authentication and role-based access (admin vs. user).
- Offer a clean, responsive UI for both desktop and mobile.

Target User

- Library staff (admin)
- Library members (users)
- Age: 18+
- Users needing to manage or track library resources

Features Feature Description Priority Book Management Add, update, delete, and list books High Member Management Add, update, delete, and list members High Loan Management Issue, return, and track book loans High Calculate and track fines for overdue books Fine Management High **User Dashboard** Members can view their loans and fines High Admin Dashboard Admins see summary and manage all resources High Authentication Secure login/logout for users and admins High

Functional Requirements

Book Management

 CRUD operations for books (title, author, category, year, copies) Admin only

Member Management

CRUD operations for members (name, email, phone) Admin only

Loan Management

- Issue and return books
- Track due dates and status
- Admin only

Fine Management

- Calculate fines for overdue books
- Track paid/unpaid status
- Admin only

User Dashboard

• Members see their current loans and fines

Authentication & Access Control

- Only admins can access management features
- Members can only view their dashboard

UI/UX Requirements

- Clean, modern, mobile-first design (Tailwind CSS)
- Separate dashboards for admin and users
- Responsive tables and forms

Tech Stack

Frontend: HTML, Tailwind CSS

Backend: Django, PostgreSQL/SQLite

Authentication: Django built-in

Deployment: Render.com

Timeline

Task

Requirement Finalization / UI Wireframes

Build Book/Member CRUD

Build Loan/Fine Management

User/Admin Dashboard

Testing & Responsive Design

Final Touches & Report

Success Criteria

- Admin can manage books, members, loans, and fines
- User can view their loans and fines
- Secure authentication and role-based access
- Fully responsive layout
- No major bugs during testing

Deliverables

- Working app (deployed) -> https://library-management-system-ju1d.onrender.com
- Code (GitHub) -> https://github.com/Nitesh-Bhardwaj-git/Library-management-system
- Final Report (PDF with screenshots and features) -> https://drive.google.com