

Library Management System

Introduction

Purpose of this Document

To define the software requirements for a library management system that simplifies borrowing, returning and cataloging of books.

Scope of this Document

The system will automate library functions such as book tracking, membership management, and overdue notifications. It also includes cost and time estimates for development.

Overview

This system will replace the manual tracking of library resources, streamlining member registration, book borrowing and overdue tracking.

General Description

The system will manage books, member registrations and transactions. It will be used by librarians and members to search for and borrow books.

Functional Requirements

- Book cataloging and inventory management
- Member registration and account management
- Book issue and return tracking
- Overdue notification system.

Interface Requirements

- Web interfaces for searching the catalog.
- Barcode integration for book tracking.
- Database for storing book and member information.

Performance Requirements

- The system should handle up to 1,000 users concurrently.
- Book search results should be displayed within 2 seconds.
- 99.9% system uptime.

Design Constraints

- Must integrate with existing library hardware.
- Should be compatible with various types of barcode scanners.
- Data migration from old system to new system.

Non-Functional Requirements

- Data integrity for books and members
- Secure user authentication system.
- Easy to maintain and update.

Preliminary Schedule and Budget

- Development time: 5 months
- Estimated budget: 2,40,000