

Library Management System

Introduction

Purpose: The document outline the requirements for development of library management system (LMS).
Aim is to specify functionalities and process.

Scope: scope includes comprehensive description of library management system and intends benefits for library management and staff.

Overview

System is intended to help manage book inventories, membership records, loan details and ~~it~~ automate various administrative function of library. Its aim to provide user-friendly platforms for user.

GENERAL DESCRIPTION

The LMS will provide functionalities that allow user to borrow, return and search books. It will store details of library member, book and. It will also track book availability and. It is designed to enhance user experience, streamline, library management process.

FUNCTIONAL REQUIREMENTS

- 1) User registration and member management
- 2) Book cataloging & inventory management.
- 3) Borrowing and returning transaction
- 4) Notification for due dates and reminders
- 5) Search functionality for book & resource.

INTERFACE REQUIREMENTS

It has both graphical user interface (GUI) and administrative interfaces. It will interact with database for storing books and member data, and also integrate with email servers for sending notice to user.

PERFORMANCE REQUIREMENT

System should handle multiple user accessing different feature simultaneously. It should respond within a few seconds for major operation, such as book searches or user registration. The LMS must use an efficient memory management.

DESIGN CONSTRAINTS

The system will need to function using standards hardware typically available in libraries. The LMS use a relational database for efficient management of records, with a preference for light-weight and portable solution.

NON-FUNCTIONAL REQUIREMENT

- 1) Security: System should be security with proper authentication.
- 2) Reliability: It must be have backup mechanism.
- 3) Portability: The LMS should be compatible with various platforms.
- 4) Data Integrity: All transaction must be recorded to avoid discrepancies.

PRELIMINARY SCHEDULE & BUDGET

The LMS is expected to take approx 6 months to develop, including requirement gathering, design, implementation, testing and development phases.

The cost of ~~develop~~ development of LMS is about ₹3,00,000 ~~and~~:

③ Library management system

