

3. library management system

1. Introduction

* Purpose :- The purpose of this document is to specify the requirements of the library management system it outlines the system functionalities, constraints and interface.

* Scope :- The LMS is a web-based application for library patrons to browse, reserve books and manage accounts with administrative functions for staff.

* Overview :- This document outlines the features, constraints and functionalities of the LMS, providing a comprehensive guide for development and implementation.

2. General description

* Features :-

- User registration, login
- browsing, searching catalog
- viewing book details, availability
- Managing user accounts
- Admin functions for books, users, reservation

3. Functional requirements

- * User Registration and login
- * Browsing and searching
- * Viewing book details
- * Reserving books
- * Managing user accounts
- * Functionality of admin

4. Interface Requirements

- x User interface :- intuitive and user-friendly with clear navigation and search.
- x performance requirements :- System should respond to user actions within a few seconds.

5. Performance requirements

- x Response time :- The system should respond to user actions (eg: searches, navigations) within a few seconds.

6. Design constraints

- x Security :- The system should implement secure practices, such as encryption for sensitive data and protection against injection attacks.

7. Non-functional attributes

- x Usability :- The system should be easy to use, with clear instructions and error messages.

8. Preliminary schedule and budget

- x Schedule :- The development of the LMS is expected to take approximately 6 months with testing and deployment following shortly after.

- x Budget :- The budget for the project includes development costs, hosting fees and any additional expenses.