

Library Management

Problem Statement:

The library management system facilitates activities like buying, selling and renting out books in their database

SRS:

1. Introduction

- * To design the functional and non functional requirements of a library management system.
- * To ensure the library operations go smoothly
- * Ensuring the entire system is secure and reliable

2. General description

Student, Teachers, ~~scholar~~ scholars are the main user of the system. They need to be provided with a simple, robust ~~use~~ easy to use interface

3. Functional Requirements

- * Show books rented out
- * Show ~~expected~~ rented books to be returned
- * Display of damaged books
- * Show money owed by customers.

4. Interface requirements

- * Integration of the system with existing system
- * Integration of system with payment gateway ~~with~~ to make payment easy

* Using different methods of operation

5. Performance requirements

- * Processing of information should be done in 5 seconds
- * Should be able to store 1 TB of information
- * Should be able to display output within 2-3 seconds

6. Design Constraints

- * System should be able to handle heavy traffic at peak hours
- * System should be able to be integrated existing systems neatly
- * Limitation in the speed and amount of data that can be processed

7. Non functional requirements

- * System should be able to handle increased demand
- * The data in the system should not be leaked.

8. Preliminary schedule and budget

- * Planning: 20 days
- * Development Phase: 8 months
- * Testing: 1 month
- * Deployment: 3 weeks
- * Hardware: \$100,000 - \$110,000
- * Training: \$40,000 - \$45,000
- * Personnel: \$100,000