

Library Management System

Problem Statement:

The problem statement is to build a library management system that can easily handle the database for any activity like borrowing, returning and calculating fines for delayed book returns.

Software Requirements Specification (SRS)

1. Introduction

1.1 Purpose of this document:

The purpose of this document is to outline the system's capabilities, constraints and requirements.

1.2 Scope of this document:

This document highlights all of the important features provided by the system, cost of development and approximate time needed for successful completion of this system.

1.3 Overview:

The library management ^{system} is a software built for librarians to manage the database of books borrowed and returned and calculate fines for delayed returns.

2. General description:

The library management system is a software built for librarians to handle books, maintain a track of borrowed books and issue fines to books with delay in return and maintain reports for every book borrowed and returned.

3. Functional Requirements:

- This system can allow all users to maintain a record of every book borrowed.
- The system can issue fines for books with delay in return.
- The system can also maintain a database of everyone using the library resources.

4. Interface Requirements:

The system can be able to communicate through desktops and emails to send details of books borrowed and returned. It also has a payment gateway which allows readers to pay their fines.

5. Performance Requirements:

The system should be able to handle transactions in real time and should maintain a good response time with a low error rate.

6. Design Constraints:

The system should be easy to maintain and should support any updates made to the software.

The system should be able to run on any operating system.

7. Non-Functional requirements:

→ The system should be safe and secure to use.

→ The system should be user-friendly.

→ The system should be able to handle large volumes of data and should be available at all times.

8. Preliminary Schedule and Budget:

The development of this system might need 10,00,000/- and take 12 months for successful completion.