

LIBRARY MANAGEMENT SYSTEM

Library Management System

30/7/24

1. Introduction

1.1 Purpose of this document:

This document outlines the requirements for the development of library management system. The purpose is to define the system's functionality, behaviour and performance that benefits the staff and students.

1.2 Scope of the document:

It aims to automate the tasks related library management operations. This system provides some facilities like access to previous year question papers, video lectures, library catalogue, magazines, articles, etc.

1.3 Overview:

In general, the LMS provides all the above mentioned functionalities like it allows catalogue management, search/browse for books and articles, get access to video lectures. This also adds additional feature like copyrights.

2. General Descriptions:

The LMS allows the staff and students to have easy access to library resources with good performance. It delivers all the basic facilities that are provided by LMS.

Functional Requirement:

- The system should allow for addition, modification of book details.
- Maintain correct classification of books like magazines, articles, etc maintained separately.
- Update the data (return date) automatically from the start date.
- Allow easy browsing for video lectures based on interest.

4. Interface Requirement:

- It should provide the user with good GUI such as clearly classified sections/modules for handling books, magazines, etc. It includes a good web based applications.

5. Performance Requirement:

- The system should provide concurrent user access without any performance degradation.
- Memory management.

6. Design Constraints:

- System should support for both desktop and mobile devices.
- Must be compatible with modern web browsers.

7. Non-functional Requirements:

- The system should be robust and reliable.
- It should deliver the results within short time like the history search.

8. Schedule and Budget:

- An estimated schedule of around 6 months would be required for development and deployment.
- Budget: around ₹125000 estimate could be done for the entire project.
 - Requirement identification: ₹15000
 - Design phase: ₹10000
 - Development phase: ₹80000
 - Deployment phase: ₹17500
 - Testing phase: ₹7500
 - Post deployment: ₹2500

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LIBRARY MANAGEMENT SYSTEM - CLASS DIAGRAM

