

LIBRARY MANAGEMENT SYSTEM

1. Introduction

1.1 Purpose of document

This document specifies the requirements necessary for a software system design of a library management system which includes the initial information required to build the project. It defines the parameters to be considered to make the software more reliable, maintainable and efficient.

1.2 Scope of document

This document aims to identify the necessary functionalities, interface properties, project time and cost estimates with this information the goals of project are understood and analyzed. It helps to get a clear description and requirement to be found while implementing project.

1.3 Overview

The LMS will be easy to access, store, and manage. It will maintain user details confidential. It will provide a secure payment gateway for subscribing. It will provide access to journals, magazines, etc. It enables user to access book online.

2. General description

The LMS will allow publisher to publish their books, research papers, documents, video lecture, journals etc. The software will log user activity and maintain history of recent reads of media as accounted for easy navigation. If the user wants to visit previous document. It enables managing records online.

3) General Requirements

- 1) Publisher Authentication
- 2) Customer Service
- 3) Book Catalog
- 4) Staff management
- 5) Filter of Book categories

1.7.2
15/11/22

4) Interface requirements

The UI should be easy to navigate unlike with high response time which facilitates quick availability to large no of people. It should display book name, publisher name, publish date, book cover etc. should be responsive, interactive and should be available for multiple devices. It should include buttons for easy navigation.

5) Performance requirement

i) facilitates large amounts at once

ii) Response time

iii) Reliability

iv) Availability

6) Design Constraints

payment gateway to facilitate transaction, refunds etc.
should include all payment methods

7) non functional interface

i) interactive UI

ii) compatibility

iii) privacy and confidentiality

iv) high performance and reliability

v) scalability

8) Preliminary Scheduling and Budget

5 months with 1,00,000 INR Budget

Requirement analysis: 20,000

Design and development: 20,000

Testing and validation: 40,000