

01/10/24

WEEK 1

DATE:

PAGE:

(1) Library Management

(1.1) Introduction

(1.1.1) Purpose of the document

This document serves as a guide for the development of library management system. It helps to outline the system's requirements, functionalities and constraints to ensure that stakeholders have clear understanding of systems objectives.

(1.1.2) Scope of the document

The scope of this document holds the functional user requirements and system constraints for library management system. It comprises of objectives like operations, book management, user registration, transaction processing. The docu also gives an estimated budget.

(1.1.3) Overview

The system aims to enhance the efficiency of library operations while provided a user-friendly interface for both library staff and patron.

(2) General Description

It is designed to serve both staff and the customers/ users and management of books by the staff keeping in check the inventory and user accounts. Also include user registration, borrowing and returning process and catalog Book management. and a library system is essential. for organized management.

(5)

(6)

(3) Functional Requirements

- 1) User registration and authentication
 - That is users should be able to login and register their accounts
 - Admin account to manage and handle these accounts.
- 2) Book Management
 - The Admins can add, update, and delete book records.
 - The system should have relevant details about the books (title, author, etc.)

3) Search filters and borrowing and returning books

process = finding books & returning them back (8)

users can search using title, author and efficiently return and borrow books.

4) Reporting

The system should generate report on borrowing activity, popular books etc.

(4) Interface Requirements

User and system interface are required for accessibility and user APIs for trans-interaction.

(5) Performance Requirements

This would include the response time, usage of data how to handle traffic on the application and enhance multiple user experience.

(6) Design constraints

This would include technological constraints that it

to be developed by specific tools like Javascript, Node.js, HTML/CSS for both frontend and backend.

And enhance accessibility.

(7) Non functional Attributes:

- Security - The system must ensure secure transmission and privacy of data.
- Portability - The application should be applicable and workable in all other devices.
- Reliability - The system must be efficient and reliable.
- Scalability - The system should be open to enhancement and future changes.

(8)

Preliminary Schedule and Budget:

Timeline of the Project → we can consider a range and here we take a year.

Requirement gathering, design, development testing and deployment.

Budget - Assuming the costs

Requirements would be - 30000 Rupees

Testing and Deployment - ₹ 1,00,000.

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