**Software Requirements Specification (SRS)**

**Library Management System**

**1. Introduction**

**1.1 Purpose**

The purpose of this document is to provide a detailed description of the requirements for the development of a Library Management System. The document will serve as a foundation for the design and development of the system.

**1.2 Scope**

The Library Management System will automate the library's daily operations, including book cataloging, member management, circulation, and reporting. The system will provide an efficient way to manage library resources, improve user experience, and streamline administrative tasks.

**1.3 Intended Audience**

This document is intended for developers, testers, project managers, and stakeholders involved in the design, development, and implementation of the Library Management System.

**1.4 Intended Use**

The Library Management System is designed to be used by librarians, faculty, and students to perform various library-related tasks, such as book check-in and check-out, user management, and generating reports.

**1.5 Definitions and Acronyms**

LMS: Library Management System

Faculty: Academic staff or instructors

Student: Individuals enrolled in academic programs

**2. Overall Description**

2.1 User Needs

2.1.1 Login

Users, including librarians, faculty, and students, should be able to securely log into the system using unique credentials.

**2.1.2 Logout**

Users should be able to log out of the system to ensure security and privacy.

**2.1.3 Add New Faculty**

Librarians should have the capability to add new faculty members to the system, including relevant details such as name, department, and contact information.

**2.1.4 Add New Student**

Librarians should be able to add new students to the system, capturing information such as name, student ID, and program details.

**2.2 Assumptions and Dependencies**

It is assumed that users have basic computer literacy. The system depends on a reliable internet connection for real-time functionality.

**3. System Features and Requirements**

**3.1 Functional Requirements**

**3.1.1 User Authentication**

The system shall provide secure login functionality for librarians, faculty, and students.

Passwords shall be securely stored using encryption techniques.

**3.1.2 User Management**

Librarians shall be able to add new faculty and students to the system.

Librarians shall be able to update faculty and student information.

**3.1.3 Book Management**

The system shall support the addition, removal, and updating of book records.

Each book record shall include information such as title, author, ISBN, and availability status.

**3.2 External Interface Requirements**

3.2.1 User Interfaces

The system shall provide a user-friendly interface accessible through common web browsers.

Interfaces for adding new faculty, adding new students, and managing books shall be intuitive.

**3.2.2 Hardware Interfaces**

The system shall be compatible with standard computer hardware and require an internet connection for optimal functionality.

**3.3 System Features**

The system shall generate reports on book availability, overdue books, and user activity.

Librarians shall receive notifications for overdue books and other relevant events.

**3.4 Additional Features**

**3.4.1 Reservation System**

Users should be able to reserve books in advance, and librarians should manage and track these reservations.

**3.4.2 Interlibrary Loan**

The system should support interlibrary loans, allowing users to request books from other libraries.

**5. Sign-off**

This document is to be reviewed and signed off by the stakeholders to confirm their agreement with the specified requirements.

Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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