**Library Management System Software Requirements Specification**

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## ****Objective:****

Building an UI/UX for Library Management.

**Users of the System:**

1. Students
2. Staffs

**Functional Requirements:**

* Build an application that the students and staffs can access **LMS**.
* The application should have the following features:
  + Signup
  + Login
  + Profile
  + Dashboard page
  + Individual book records with the following fields:
    1. Magazines
    2. Comics
    3. Manga
    4. Novels
    5. Dictionary
    6. Encyclopedia
    7. Study material(for every department)
    8. More in progress

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**1. Introduction**

**1.1 Purpose**

The purpose of this document is to define the software requirements for the development of a Library Management System (LMS).

**1.2 Scope**

The Library Management System is intended to automate and streamline various library processes, including book cataloging, user management, circulation, and reporting.

**1.3 Document Conventions**

* Use of "shall" to indicate a mandatory requirement.
* Use of "should" to indicate a recommended feature.

**1.4 References**

List any relevant documents or external references here.

**2. System Overview**

**2.1 System Description**

Describe the high-level overview of the Library Management System, its goals, and objectives.

**2.2 System Architecture**

Provide an architectural diagram and description of the key components and modules of the system.

**3. Functional Requirements**

**3.1 User Management**

* The system shall allow librarians to create, update, and delete user accounts.
* Users shall be able to log in using their credentials.
* Users should be able to reset their passwords.

**3.2 Catalog Management**

* The system shall provide a catalog of all available books, including title, author, ISBN, and genre information.
* Librarians should be able to add, update, or remove books from the catalog.

**3.3 Borrowing and Returning**

* Users should be able to borrow and return books.
* The system shall track due dates and impose fines for overdue books.
* Notifications shall be sent to users for overdue books.

**3.4 Reservation**

* Users should be able to reserve books that are currently checked out.
* The system shall notify users when reserved books become available.

**3.5 Reporting**

* The system should generate various reports, including book usage statistics, overdue books, and user activity.

**4. Non-Functional Requirements**

**4.1 Performance**

* The system should support a minimum of 100 concurrent users.
* Response times for common operations should be under 2 seconds.

**4.2 Security**

* User data should be securely stored and transmitted.
* Authentication and authorization mechanisms shall be in place.

**4.3 Usability**

* The user interface should be intuitive and user-friendly.
* The system shall support multiple languages.

**4.4 Reliability**

* The system shall have a backup and recovery mechanism.
* It should be available 99.9% of the time.

**4.5 Scalability**

* The system shall be designed to accommodate future growth in the number of books and users.

**5. Interface Requirements**

**5.1 User Interface**

* Provide wireframes or mock-ups of the user interface for key screens.
* Describe how users will interact with the system.

**5.2 Hardware Interface**

* Specify any hardware requirements, such as barcode scanners or RFID systems.

**6. System Constraints**

**6.1 Legal and Regulatory**

* Ensure compliance with applicable copyright laws and data protection regulations.

**6.2 Hardware Limitations**

* List any specific hardware limitations or constraints.

**7. Appendices**

**7.1 Glossary**

* Include a glossary of terms used in the document.

**7.2 Use Cases**

* Provide detailed use case diagrams and descriptions for major system functionalities.

**7.3 Data Dictionary**

* Define the data elements and their attributes used in the system.

**8. Revision History**

Document any revisions made to this SRS document.

**9. Approval**

* Signatures and approval from stakeholders.

**10. Conclusion**

* Summarize the importance of the Library Management System and its potential benefits.

By expanding on each of these sections, conducting further analysis, and adding specific details, you can easily create a 10-page SRS document for your library management system project. Be sure to involve stakeholders, including librarians and users, in the requirements gathering process to ensure the document accurately reflects their needs and expectations.

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