**Library Management System**

### Introduction:

The Simple and Small Library Management System Application is a software solution that is designed to manage library resources effectively. The objective of this system is to simplify the library management process, reduce administrative overhead, and improve the overall user experience. This business requirement document outlines the functional and non-functional requirements of the Simple and Small Library Management System Application.

### Functional Requirements:

1. User Management: The system should allow the librarian to manage user accounts, including registration, updating user information, and deleting user accounts.
2. Book Management: The system should allow the librarian to manage books, including adding new books, updating book information, and deleting books from the library.
3. Book Search: The system should allow users to search for books by title, author, or subject.
4. Book Borrowing: The system should allow users to borrow books from the library, subject to the availability of books.
5. Book Return: The system should allow users to return books to the library and update the book status as available.
6. Book Reservation: The system should allow users to reserve books that are currently checked out by other users.
7. Book Loan Management: The system should allow the librarian to manage book loans, including tracking book due dates, sending reminders to users, and issuing fines for overdue books.
8. Reports: The system should generate reports on the status of books, user activity, and fines collected.

### Non-Functional Requirements:

1. Security: The system should be secure and protect user data from unauthorized access or disclosure.
2. Performance: The system should be able to handle a moderate number of users and book transactions without any performance degradation.
3. Usability: The system should be user-friendly and easy to navigate for both the librarian and users.
4. Compatibility: The system should be compatible with different devices and operating systems, including desktops, laptops, and mobile devices.
5. Scalability: The system should be scalable and able to handle an increasing number of users and book transactions as the library grows.

### Conclusion:

The Simple and Small Library Management System Application is a critical requirement for managing library resources effectively. The functional and non-functional requirements outlined in this business requirement document will ensure the successful implementation and adoption of the system.

**Database Template**

Table Name: User

Columns:

* User ID
* First Name
* Last Name
* Email
* Password
* Account Status

Table Name: Book

Columns:

* Book ID
* Title
* Author
* Subject
* ISBN
* Publisher
* Publication Date
* Quantity
* Available Quantity

Table Name: Borrowing

Columns:

* Borrowing ID
* User ID (Foreign Key)
* Book ID (Foreign Key)
* Borrow Date
* Due Date
* Return Date
* Status (Borrowed/Returned)

Table Name: Reservation

Columns:

* Reservation ID
* User ID (Foreign Key)
* Book ID (Foreign Key)
* Reservation Date

Table Name: Loan Management

Columns:

* Loan ID
* User ID (Foreign Key)
* Book ID (Foreign Key)
* Due Date
* Fine

Table Name: Reports

Columns:

* Report ID
* User Activity
* Book Status
* Fines Collected