LIBRARY MANAGEMENT SYSTEM

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1. Requirements:

Library management system is basically updating the manual library system into an internet-based application so that the user can know the details of their account, availability of books and maximum limit for borrowing.

The project is specifically designed for the use of librarian and library users. The product will work as complete user interface for library management process and library usage for ordinary users. Library management system can be used by any existing or new library to manage its books and books borrowing, insertion, monitoring. It especially useful for any educational institute where modification in the content can be done easily according to the requirement.

**Functional Requirements:-**

**1. Admin –**

* Add/Delete books to the library book list.
* Add Users and provide them User Id and password.
* Issue book to the student.
* Keeps the record of the books issued by student and staff.
* Record of registered students and staffs.
* Generate online report.

**2. Student –**

* Login to the system.
* View list of the books available in the library.
* Search for a book.
* Request admin to issue a book.
* Return a book.

**3. Staff –**

* Login to the system.
* View list of the books available in the library.
* Search for a book.
* Request admin to issue a book.
* Return a book.

1. Glossary:

* Introduction:

This document is used to define terminology specific to the problem domain, explaining terms, which may be unfamiliar to the reader of the use-case descriptions or other project documents. Often this document can be used as an informal data dictionary, capturing data definitions so that use-case descriptions and other project documents can focus on what the system must do with the information.

A library management system, also known as automated library system is a software that has been developed to handle basic functionalities of library. It is a well organised software solution for library system. It helps to provide information on any book present in library to the user. It keeps the record of books i.e. book issued, returned and the new added book to the library.

* Definitions

The glossary contains the working definitions for the key concepts in the Library Management System.

1. **ISBN** –

ISBN stands for International Standard Book Number. An ISBN is assigned to each edition and variation of a book. This 10 -13 digit ISBN number can be used to identify a specific book.

**2. Book type-**

* Science fiction
* Action and Adventure
* Religion, Spirituality & New Age
* Science
* History
* Math
* Biography
* Autobiography
* Travel

**3. Administrator-**

A User ID representing the user with user administration privileges to the software.

**4. User -**

A general User id assigned to most users. In this case Student and Staff.

1. **Non-functional Requirements**

**1. GUI**

The software provides good graphical user interface for the user and administrator can operate on system , performing the required task such as create , update, Delete , viewing the details of the book.

* Allows user to view quick reports like Book Issued/Returned in between particular time.
* It provides stock verification and search facility based on different criteria.
* All the modules provided with the software must fit into this graphical user interface and accomplish to the standard defined.
* The user interface should be able to interact with the user management module and a part of the interface must be dedicated to the login/logout module.
* Log in interface-
* In case the user is not yet registered, Administrator can enter the details and creates users account. Once his account is created he can login, which asks the user to type his User Id and Password. If the user entered either his User Id or password incorrectly then an error message appears.

Search-

The Student, Staff can enter the type of book he is looking for and the title is he is interested in, he can search for the required book by entering the book name.

Categories-

Categories view shows the categories of books available and provides ability to administrator/Librarian to add/edit/delete category from the list.

**2. System Features –**

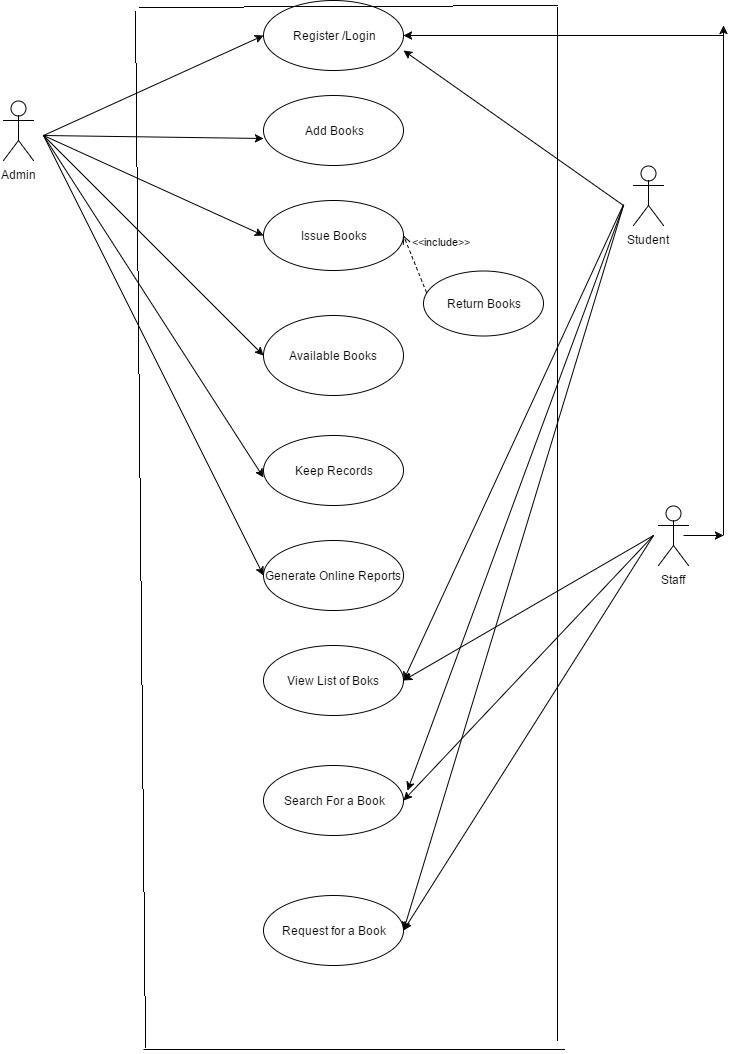
The user of the system should be provided the surety that their account is secure. This is possible by providing:-

* User authentication and validation of members using their unique User ID.
* Proper monitoring by the administrator which includes updating account status, showing a popup if the member attempts to issue number of books that exceed the limit provided by library policy, delete the books entry if it is not there in library, assigning fine to members who skip the date of return.
* Proper accountability which includes not allowing a member to see other member’s account. Only administrator will see and manage all the member accounts.
* Confirmation Email to the user on post issuing the book from library.
* Reminder Email to the user one day before return day of the book.

**3. Performance Requirements-**

* The performance of the system should be fast and accurate.
* Library Management System shall handle expected and non-expected errors in way that prevent loss in information. Thus it should have inbuilt error testing to identify in valid user id/password.
* The System should be able to handle large amount of data. Thus it should accommodate high number of books and users without any fault.

1. **Diagrams**
2. **Use Case Diagram**

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