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Introduction

The project “Online Library Management System” is developed in ASP.NET, which mainly focuses on basic operations in a library like adding new member, new books, and updating new information, searching books and members and facility to issue and return books. Using this web application user can make the booking of books online and can look for the book either it is available in library or not.
1. It provides "better and efficient" service to members.
2. Reduce the workload of librarian.
3. Faster retrieval of information about the desired book.
4. Provide facility for proper monitoring reduce paper work and provide data security.
5. All details will be available on a click for both user and librarian.
Product Functions

The functions of the system include the system providing different type of services based on the type of users.

- User accounts with login facilities.
- List will be automatically updated.
- Librarian get information about the members and books.
User Classes

The users of the system are

- Administrator (Librarian)
- Members

Assumptions

- The users should have sufficient knowledge of computers & of English language, as the user interface will be provided in English.
- The members should be either the student or faculty of the institute, where this s/w will be implemented.
Hardware Interface

• Processor: Pentium 3.0 GHz or higher
• RAM: 512 Mb or more
• Hard Drive: 10 GB or more

Software Interface

• Operating System : Windows 8
• Front End: ASP.NET visual Studio 2012
• Back End : SQL Server Management Studio 2012
• Language : C#
• Framework : Visual Studio 2012
The proposed system that we are going to develop will be used as the Chief performance system within the library of the institute which interact with the institute’s staff and students. Therefore, it is expected that the database would perform functionally all the requirements that are specified by the institute. The system shall accommodate high number of books and users without any fault.
Safety Requirement

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

Security Requirement

We are going to develop a secured database for the university. There are different categories of users namely teaching staff, administrator, students etc. Depending upon the category of user the access rights are decided. It means if the user is an administrator then he can be able to modify the data, delete, append etc. All the other users other than administrator only have the rights to retrieve the information about database.
Analysis Model

ADMINISTRATOR

View the book details
View the user account

LIBRARY MANAGEMENT SYSTEM

LIBRARY DATABASE

USER

User Registration
Book request
Sign In to Library Management System

User: 
Name: 
Password: 

Sign In

Don't have an account: Sign Up....
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