



TRIBHUVAN UNIVERSITY

Institute of Engineering

Pulchowk Campus

Department of Electronics and Computer Engineering

Database Management System Project

On

“Online Library”

Submitted

By

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To

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Acknowledgement

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Abstract

Although we have various libraries which have gone computerized still they doesn't allow the user to browse book from computers other than of the library itself. And our project comes to provide the solution. Since our project is a web based online library user can search for the book according to the various category like books, magazine, CDs, DVDs by connecting themselves to the internet.

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Introduction

All the books and the other resources in the library are organized in a paper-based system in the traditional method. This paper-based system becomes ineffective when the resources keep on adding in the library. It is time consuming to search for a book in piles of records, adding or deleting more books or other resources to the library collection.

With the advancement in computer technologies, especially in the database management system, such paper-based method of keeping record is being converted to computer-based system. The computer based system has proven to be more efficient than traditional paper-based system in every aspect.

Our project “Online Library”, as by the name it suggest, is a web based system which keeps record of each and every items on the library. Every items including books, magazines, CDs, DVDs is stored in database in separate category. Since it is web based anyone can register through out site and have access to the library database.

The record of the various items in the database is updated through administrator user which is defined at the time of creating this project. He possesses the right to add, remove or edit information regarding every item in the database.

Objectives

The objectives of our database management system project are as follows-

- To arrange the records of books, magazines, cds and dvds
- To arrange the records of the library members
- To search for any records in the database by connecting just through internet.

Development Environment

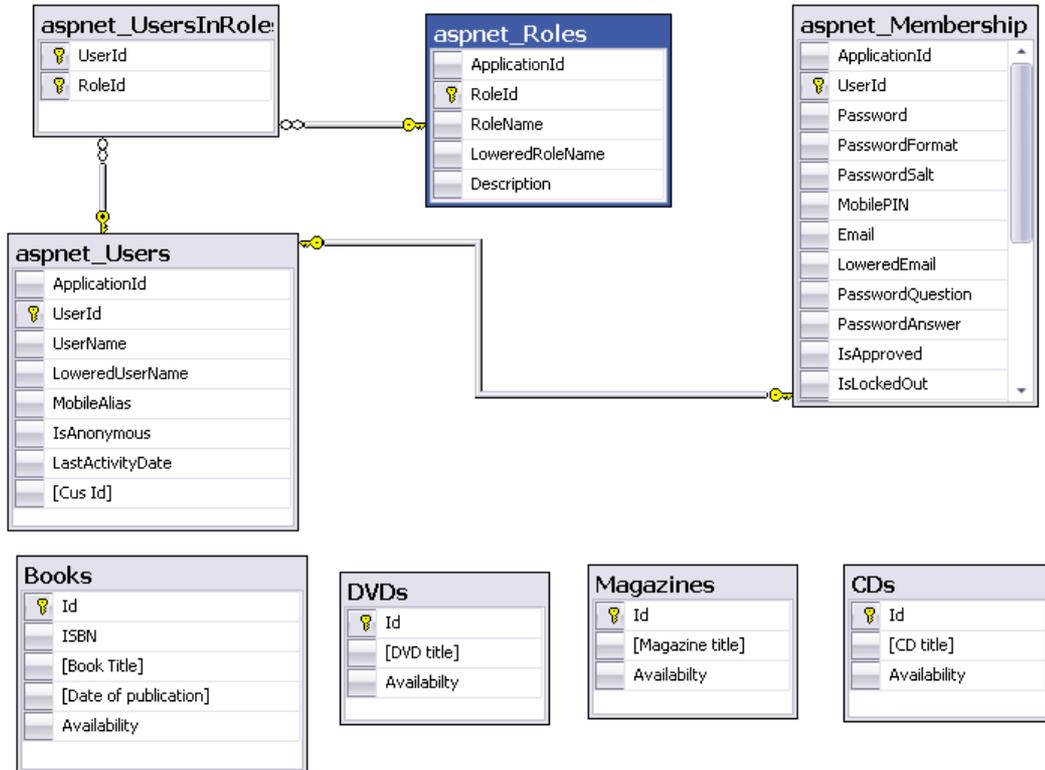
For the design of this project we used the Microsoft Visual Studio 2005. The visual studio brings many tweaks and improvements to make the whole development process easier and increase the productivity, so we will use this development environment. The database server used for our purpose is Microsoft SQL Server 2005 with front end designed using ASP.NET.

Design

Our system basically comprises of two components. One maintains the information regarding all the items in the library and the other manages the role of the member according to the category of the membership.

We have used user friendly graphical user interface. Members are classified into two categories according to their role, Administrator and general. So the members will have authorization based on their role. A librarian could easily add books, magazines, cds or dvds records and update as well who is given the administrator privilege. And the general member can only search for the books on various categories.

Diagram



Output

Address http://localhost:4332/Online_Library/All%20Users/Home.aspx Go



ONLINE LIBRARY

[Login](#) ,
[your pass](#)
[Register](#)

[Home](#) [About](#)

Welcome to Online Library

Online Library Database

- Register
- Members' Page
 - Search books and more
- Books
- Magazines
- DVDs
- CDs
- Administrator
 - User Profiles
- Galleries
 - Books
 - Magazines
 - CDs
 - DVDs
 - Search in galleries
- About us



Limitations

Although this system provides online access to its members about the status of the book and allows the user with administrator role to add, edit and delete records information, it still lacks certain features like keeping track of records issued to the members, reserving the books online.

Conclusion

Hence we designed an online library system which is very efficient in terms of searching and with some authorization differentiating normal user from librarian. During the development we learned about the database system and the web development.

References

1. <http://en.wikipedia.org/>
2. <http://www.learnvisualstudio.net>
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