

KHULNA UNIVERSITY

Course Title : Database Systems

Project/Fieldwork

Course No : CSE 3102

Project Proposal



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Submission Date: 29-01-2023

Library Management System for the CSE Discipline at Khulna University

Introduction

Performing library management manually is quite difficult, as is maintaining its records in order. These are the issues that the Library Management System should address and answer.

The Library Management System (LMS) is a program that helps librarians manage a library by managing the daily book transaction and managing the member, books record more efficiently. It can improve the management of the book property in the library.

This library management system is mainly used by librarians and library admin. Normal librarians can manage the member maintenance module, book maintenance module and also the most important module in a library which is the book transaction module. Besides that, the library management system also allows users to manage the publisher as well as the lost book module. On the other hand, another type of user which is admin-level staff can handle the staff module and view the report module.

The methodology I used to develop this system is the waterfall model. Thus, the report's chapter included system planning, requirement analysis, system design, programming, system testing, and evaluation of the project.

This study was undertaken to design an advanced database for a library management system for the Seminar Library CSE discipline at Khulna University. Library Management System was a system that was designed to keep records of how librarians and book bankers handle and process data and ease the problem of the receiving and issuing of books to students. The management system involved all those activities designed to control the life cycle of collection and retrieval of records quickly.

Motivation

The number of users is changing day by day. To cope with this, the KU library was automating some of the services to hasten the collection and retrieval of records. This action was meeting problems like the insufficient staff who were overworked, the classification of books in the book banks with different methods which was cumbersome, inadequate reserve section for storing books, and the problem of mismanagement of records since the system was manual affected the level of efficiency of the library. These problems provided the focus for the study and necessitate an investigation to arrest the situation before it became worse. Therefore, the researcher aimed at designing and developing a Library Management System that was used to handle the library services efficiently.

Benefits :

- i. The Library Management System's major goal is to keep track of information such as books and borrowers' information. It manages the data, such as Book borrowers' basic info, as well as the librarians.
- ii. Solve the problems that arose from the current system.
- iii. Database interface that was appropriately used for records management in the library.
- iv. The system is developed to cope with the current issues and problems of the library. The system can add users, and validate the user and is also bug-free.
- v. After the computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost.
- vi. Save time Librarians can search records by using a few clicks of the mouse and a few search keywords thus saving them valuable time.
- vii. The proposed system will help increase the efficiency and effectiveness of the department's services to the institution and the customers.

Interesting Queries:

- i. Option of online Notice board Librarian will be able to provide an update about the library's books' condition.
- ii. The teacher can upload lecture notes in a pdf file having a size of not more than 10 MB.

Tools & Technologies

Software

- Operating system: Windows 10 Professional
- Database: Microsoft SQL Server 2008
- Development tools: Microsoft Visual Studio 2008
- Programming language- HTML is used to write the whole code and develop webpages with CSS, JavaScript for styling work and PHP for the server-side script

Hardware

- Processor: Intel(R) Core(TM) i5-9500K CPU @ 3.90GHz
- Ram: 8 GB