

Evaluation of Library Management Services Usage and Performance Towards Engineering Colleges

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ABSTRACT

Libraries are said to be the backbone of any institution or the organization to which they are attached. They are supposed to provide relevant information to its users in time. Now a day's information & communication technology has influenced all the parts of human life. Information & Communication Technology (ICT) is now becoming more prevalent in every type of libraries. Hence, the role of information professionals has centered around the understanding and efficient exploitation of technological resources to cater to the increasing information dependence of the society. This requires proper appreciation of the impact of technology on the concept of libraries and their services. The information needs of the users of libraries - whether they are academic college or the engineering colleges have also become complex and problematic due to the tremendous publications and interdisciplinary researches that are being promoted at the level of higher education. Academic libraries in engineering institutions are prominent information organizations and play a crucial role in fulfilling the information needs of users of professional disciplines. The use of technological information emanating from these libraries contributes not only to national development but also to the technical manpower development in engineering fields. Teachers in engineering subjects need constant updating of latest information in their respective field of interest. Latest information in their subjects enables them to support their teaching needs and myriad research requirements. In order to make the teaching effective, the teachers need right information sources to consult that are only available in the libraries. A good teacher always consults different information sources other than textbooks. Even teachers need textbooks of different authors and publishers, which may not be possible on one's part to procure at personal level. Engineering disciplines in particular are special branches of professional knowledge, which frequently require updating by a teacher. Here the library acts as the facilitator and provider of need-based information to such highly intellectuals and academicians.

1. Introduction

Library management System - LMS is a study it used to developing a computerized system of maintaining all the daily activities in library. It is a Windows Application; it gives us the complete information about the library. This study has many feature differ from normal library management system like facility of Student login, Librarian login and has the facility of Admin login. An ELM was developed to manage the efficient way of daily book transaction, manage the members and the book records properly. It has developed by use of Eclipse IDE tool. It helps to improve management of the book property in library. This system is mainly used by librarian and the library admin .We can enter the record of new books and retrieve the record detail of those books available in the library. The librarian can issue the books to the student and maintain their records. He can also check how many books are issued and stocks available in library. This study has three modules as Student, Librarian and Admin. In manual system normally librarian is able to manage the member maintenance module, book maintenance module and also the most important module in a library which is book transaction module. This Enhanced Library management system also allows user to manage the publisher as well as return book detail these all are managed by the librarian.

Generally the academic librarians show little interest in having user input for making decisions, but currant drive to adopt total quality management and just –in-time concept there is an emerging imperative for engineering college libraries for both developed and developing countries to build an ability to clearly show responsiveness to decision making. The librarians

working in these institutions should pay paramount importance to acquire appropriate and need based literature in those subjects to the utmost satisfaction of their academic staff and students. Unless the needs are precisely determined, it is difficult to satisfy their requirements and develop an appropriate information system. Hence, identifying information needs and determining information seeking behavior of teachers of engineering institutions is the crux of the problem for the development of library and information system.

2. Library Management System

Library is a place where all kind of books are available; the collection of knowledge in an institution is library. The library usually contains the information physically or digitized method. Library management system consists of list of records about the management of the student detail, book details and its transaction performance. The ELMS study is developing a computerized system in library management. As the modern organizations are computerized, This ELMS helps become essential for human being, commodity and computers in modern organization. An ELM is an application which refers to library systems are generally small/medium in size. It helps the librarian to manage the library with the computerized system, by use of this system he can record various transactions like issue of books, return of books, adding of new student and adding of new student and more. Books and student maintenance modules are included in the system which keep track of the student using library and also describe about the books in library. Use of these ELMS there is no loss of book record/ member record, which generally happens when a non-

computerized system is used. This study which contain the three modules as Admin, Librarian and Student. Every module has it own login page in this application .Librarian module describe the content of book and student detail like adding the book, issue book and return book etc. , These all are the detail managed by the librarian. Student module which describe about the student act of daily work in library like view book details, borrowing book and Return book. Admin module has control and manages the overall process of library management system. Admin has done the work of manage the librarian activities, he can do the work of add the librarian, view the librarian details and also can delete it. The administrators and others can communicate with the system through this study. It access by librarian and library admin to manage the library by using a computerized system.

3. Technical education and engineering college libraries

The history of imparting formal technical education in India can be traced back to mid-19th century, although it got momentum in 20th century with the setup of constitution of technical education committee on the Central University Board of Education (CABE) in 1943, and formation of All India Council of Technical Education (AICTE) which was established in November 1945 first as an advisory body and later on in 1987 given statutory status by an Act of Parliament. Though, the basic thrust of development planning was on growth in first few decades after independence, but the globalization of the education system has led the establishment of various universities and institutes of higher education in the recent years. The development of technical education in the Rajasthan state shows that there was no dearth of institution for higher professionals and technical education in the state. But in the recent years, the industries have expanded their wings in the land of Rajasthan, and these require huge manpower both - technical and non- technical. Definitely the demand for technical manpower is high to fulfill the void and much stress has given on expansion, modernization and reorientation of technical education. To attain the purpose, new engineering colleges and technical institutes are being opened up and existing once is being upgraded.

Engineering college libraries like any other college libraries are affiliated to the institutions that contribute primarily to the teaching and learning process by providing various information and learning resources to the clientele for their successful persuasion of the course programs offered by the institution. AICTE- the regulatory body for technical education in India has framed elaborate norms for libraries of the engineering colleges offering different technical courses. For an institution, offering P.G.courses the position of librarian is placed under the technical support staff. It further prescribes that the library should be provided with necessary staff to enable it to be available to the staff and student for at least 12 hours in a day. It also suggests that the library should consist of one librarian, one assistant librarian and four library assistants.

4. Personnel working in engineering college libraries

Personnel are the essential ingredient in all organizations and institutions. They are, in fact, the vital resources for an effective and efficient organization. The personnel working in libraries are categorized in three groups based on their academic and professional qualification. Those who have possessed graduates and post-graduate degrees in Library and Information Science are considered professionals, and others who possess diploma and certificate course and are having LIS skills are grouped under the semiprofessional category. Those who do not possess LIS qualifications but they are working in libraries either as administrative staff and others are considered non-professionals.

5. Existing system

In traditional library management system is a manual process ,by this system we face the several problem while accessing the library transaction process example of time consuming issues, data loss and the money issue problem. There are several concepts made for library management system. There is a difficult to add new features in library system. Existing system does not have any facility to the book request and suggestion. It does not have the facility to generate student report as well as book issue report. Digital library management system is the emerge in the field of Library innovation but there is the problem arise in a lack of network issue may contain the struggle of users.

- The traditional library system required more time for processing.
- Data loss problem can arise.
- There is lack in maintenance of information in issue books/return book
- To face difficulty while tracking the book.

6. Module description

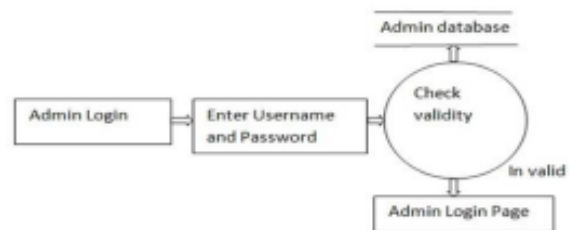
The Enhanced Library Management system study has the three major Module descriptions thus are,

- Admin Module
- Librarian Module
- Student Module

These modules own login page constrains to handle and manage the library process, Every module which has the separate work process in library maintenance.

Admin Module:

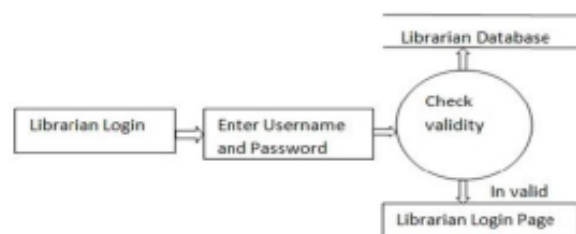
Admin Module which describes the process of work handles by admin in library which help of this ELMS system. Admin which has it own login page which enter the unique username and the password, it helps to maintain the library information as secure. The admin have to control and manage the library management system.



Admin module, which defines the process of to maintain and control the whole system through control of librarian, he can handle the librarian details.

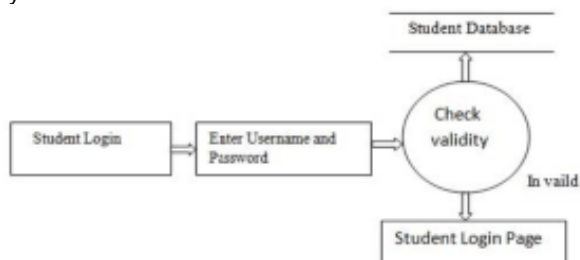
Librarian Module:

Librarian modules which define the process of maintain the records of library information. This can denote the details of books. Librarians have his or her own page in application by entering the login page. The librarian can be entered in the management system and make the library transaction make as easy way. He can maintain a book transaction by the process of adding the book, view the issued book, and Return book details.



Student Modules:

Student login has enrolled the activity of Student access in library by this ELMS application. When the librarian have registered the student ,they can get their own username and the password, by use of this they can entered and view the library information use of the login page. They can view the details of available book, return date and due amount from library.



7. Usage and performance of various library software modules

Library automation, which started in India in late 1970s in few special libraries, has now reached most of the academic libraries. Computerisation was started in the libraries to increase the efficiency and effectiveness of the library operations and services. Development and use of information and communication technology (ICT) has enabled the libraries not only to offer their clientele the appropriate information available within their libraries but also provide access to information of other libraries, both local and outstations. In the current scenario there is a greater responsibility on the libraries and information centres to provide the latest and timely information to their users to facilitate improvement in the quality of education in the country and this cannot be done until each

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institution has an efficient library and information management systems at its command. Library automation systems are elaborately designed and crafted computer applications that require considerable programming skills together with an extensive knowledge of the functional needs of libraries and the exacting standards that are applied in their libraries. Software technologies used in library automation systems include database management systems, client-server architecture, search engine technology, and, increasingly, software used in web based applications.

8. Conclusion

In India library automation began in the late 1970s in a few special libraries and has now reached most of the university libraries. It has yet to take off in college libraries owing to various problems. Many studies on library automation have been undertaken in the developed countries, but few have been undertaken in India. This study is a survey of engineering college libraries that have computerised their operations and services. The study is limited to the automated libraries of engineering college libraries. It gives a status on the software packages used by the various libraries, and opinions of the librarians about the performance of the different modules of the software they have used. In this paper we have presented our study detail of library application which Engineering Colleges Library management system. It is the windows application development; we use the Eclipse Neon IDE tool and the MySQL Database to develop this study. The Main aim of our study is to make people easily access their library account in order to check the availability of book in library as well as to know the borrowing and return detail from the library. It helps to overcome the issue of time consuming, reduce data loss and fast access of Engineering Colleges library.