SOFTWARE REQUIREMENT SPECIFICATION FOR

E-LIBRARY MANAGEMENT

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1.INTRODUCTION

This chapter gives an overview about the aim , objectives ,background and operation environment of the system. 1.1 PROJECT AIMS AND OBJECTIVES The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows: Online book reading.

- A search column to search availability of books.

- Facility to download required book.

- Video tutorial for students.

- An Admin login page where admin can add books, videos or page sources

- Open link for Learning Websites.

1.2.Abstract:

Online Library Management System is a system which maintains the information about the books present in the library, their authors, the members of library to whom books are issued, library staff and all. This is very difficult to organize manually. Maintenance of all this information manually is a very complex task. Owing to the advancement of technology, organization of an Online Library becomes much simple. The Online Library Management has been designed to computerize and automate the operations performed over the information about the members, book issues and returns and all other operations. This computerization of library helps in many instances of its maintenances. It reduces the workload of management as most of the manual work done is reduced.

1.3 BACKGROUND OF PROJECT

E-Library Management System is an application which refers to library systems which are generally small or medium in size. It is used by librarian to manage the

library using a computerized system where he/she can add new books, videos and Page sources. Books and student maintenance modules are also included in this system which would keep track of the students using the library and also a detailed description about the books a library contains. With this computerized system there will be no loss of book record or member record which generally happens when a non computerized system is used. All these modules are able to help librarian to manage the library with more convenience and in a more efficient way as compared to library systems which are not computerized.

Processor   :Intel core Processor or better performance

 Operating System: windows vista,windows s7, ubuntu

 Memory   :1GB RAM or more

Hard Disk Space : minimum 3GB for database usage for future

Database   : Mysql

2.SYSTEM ANALYSIS

In this chapter, we will discuss and analyze about the developing process of Library Management System including software requirement specification (SRS) and comparison between existing and proposed system . The functional and non functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out. Besides that, existing vs proposed provides a view of how the proposed system will be more efficient than the existing one.

2.1 SOFTWARE REQUIREMENT SPECIFICATION

2.1.1 <u>GENERAL DESCRIPTION</u>

PRODUCT DESCRIPTION: Library Management System is a computerized system which helps user(librarian) to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming. It can help user to manage the transaction or record more effectively and timesaving.

PROBLEM STATEMENT: The problem occurred before having computerized system includes:

 File lost

   • When computerized system is not implemented file is always lost because of human environment.Some times due to some human error there may be a loss of records. File damaged When a computerized system is not there file is always lost due to• some accdent like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.

Difficult to search record

   • When there is no computerized system there is always a difficulty in searching of records if the records are large in number .

 Space consuming

   • After the number of records become large the space for physical storage of file and records also increases if no computerized system is implemented.

 Cost consuming

   • As there is no computerized system the to add each record paper will be needed which will increase the cost for the management of library.

2.1.2 SYSTEM OBJECTIVES

Improvement in control and performance

• The system is developed to cope up with the current issues and problems of library .The system can add user, validate user and is also bug free.

Save cost

• After computerized system is implemented less human force will be required to maintain the library thus reducing the overall cost. 9

Save time

• Librarian is able to search record by using few clicks of mouse and few search keywords thus saving his valuable time.

Option of online Notice board

• Librarian will be able to provide a detailed description of workshops going in the college as well as in nearby colleges

Lecture Notes

• Teacher have a facility to upload lectures notes in a pdf file having size not more than 10mb.

2.1.3 SYSTEM REQUIREMENTS

2.1.3.1 NON FUNCTIONAL REQUIREMENTS

•Product Requirements

EFFICIENCY REQUIREMENT

When a library management system will be implemented librarian and user will easily acess library as searching and book transaction will be very faster .

<u>RELIABILITY REQUIREMENT</u>

The system should accurately performs member registration ,member validation , report generation, book transaction and search.

<u>USABILITY REQUIREMENT</u>

The system is designed for a user friendly environment so that student and staff of library can perform the various tasks easily and in an effective way.

<u>ORGANIZATIONAL REQUIREMENT</u>

<u>IMPLEMENTATION REQUIREMNTS</u>

In implementing whole system it uses html in front end with php as server side scripting language which will be used for database connectivity and the backend ie the database part is developed using mysql.

<u>DELIVERY REQUIREMENTS</u>

The whole system is expected to be delivered in six months of time with a weekly evaluation by the project guide

2.1.3.2 FUNCTIONAL REQUIREMENTS

1. NORMAL USER

1.1 USER LOGIN

<u>Description of feature</u>.

This feature used by the user to login into system. They are required to enter user id and password before they are allowed to enter the system .The user id and password will be verified and if invalid id is there user is allowed to not enter the system.

<u>Functional requirements</u>

-user id is provided when they register

-The system must only allow user with valid id and password to enter the system

-The system performs authorization process which decides what user level can acess to.

-The user must be able to logout after they finished using system.

1.2 REGISTER NEW USER

Description of feature

This feature can be performed by all users to register new user to create account.

Functional requirements

-System must be able to verify information

-System must be able to delete information if information is wrong.

3 1.REGISTER NEW BOOK

Description of feature

This feature allows to add new books to the library Functional requirements

-System must be able to verify information

-System must be able to enter number of copies into table.

- System must be able to not allow two books having same book id.

1.5 SEARCH BOOK

Description of feature

This feature is found in book maintenance part . we can search book based on book id , book name , publication or by author name.

Functional requirements

- System must be able to search the database based on select search type

- System must be able to filter book based on keyword enterd

- System must be able to show the filtered book in table view.

Functional requirements

-System should be able to add detailed information about events .

-System should be able to display information on notice board available in the homepage of site

2.1.4 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

2.1.4.1 SOFTWARE REQUIREMENTS

- Operating system- Windows 7 is used as the operating system as it is stable and supports more features and is more user friendly
- Database MYSQL-MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.
- Development tools and Programming language- HTML is used to write the whole code and develop webpages with css, java script for styling work and php for sever side scripting

2.1.4.2 HARDWARE REQUIREMENTS

➢ Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime. By using this processor we can keep on developing our project without any worries.

➢ Ram 1 gb is used as it will provide fast reading and writing capabilities¬ and will in turn support in processing.

Existing System:

• Early days Libraries are managed manually. It required lot of time to record or to retrieveν the details. The employees who have to record the details must perform their job very carefully. Even a small mistake would create a lot of problems. Security of information is very less. Report generations of all the information is very tough task.

• Maintenance of Library catalogue and arrangement of the books to the catalogue is veryν complex task. In addition to its maintenance of member details, issue dates and return dates etc. manually is a complex task.

• All the operations must be performed in perfect manner for the maintenance of the libraryν with out any degradation which may finally result in the failure of the entire system.

Proposed System:

To solve the inconveniences as mentioned in the existing system, an **Online Library** is proposed. The proposed system contains the following features:

o The students will register them through Online.
o Individually each member will have his account through which he can access the information he needs.
o Book details like authors, number of copies totally maintained by library, present available number of books, reference books, non-reference books etc. all this information can be made handy.

- Regarding the members designation, number of books was issued.
- Issue dates and returns of each member is maintained separately and fine charged if there is any delay in returning the book.
- Administrator can add, update the books.
- Time consuming is low, gives accurate results, reliability can be improved with the help of security.

REFERENCES

http://www.w3schools.com/html/html_intro.asp
http://www.Udemy.com/css/css_background.asp
http://www.w3schools.com/js/js_datatypes.asp