LIBRARY MANAGEMENT SYSTEM

END -TERM PROJECT

*by*

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**Student Declaration**

This is to declare that this report has been written by us. No part

of the report is copied from other sources . All information includ-

-ed from other sources have been duly acknowledged . We aver

that if any part of the report is found to be copied , we shall

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**BONAFIDE CERTIFICATE**

Certified that this project report “LIBRARY MANAGEMENT SYSTEM ” is the bonafide work of “ PRIYANSHU GUPTA, GAURAV CHAWLA, AKASH KUMAR PUSHP” who carried out the project work under my supervision.

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**BACKGROUND AND OBJECTIVES OF PROJECT ASSIGNED**

“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 record various transactions like issue of books, return of books,addition of new books, addition of new students etc. Books and student maintenance modules are also included in this system which would keeptrack of the students using the library and also a detailed description about the books a library contains. With this computerized sytem there will be no loss of book record or member record which generally happens when a non-computerized system is used.In addition, report module is also included in “Library Management System”. If user’s position is admin, the user is able to generate different kinds of reports like lists of students registered, listof books, issue and return reports.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.

**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 issue

•Request column for librarian for providing new books

•A separate column for digital library

•Student login page where student can find books issued by him/her and date of return.

•A search column to search availability of books

•A teacher login page where teacher can add any events being organized in the college and important suggestions regarding books.

•Online notice board about the workshop

**DESCRIPTION OF PROJECT**

**1. USER LOG IN :**

DESCRIPTION OF FEATURE: This feature used by the user to log in 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 s there user is allowed to not enter the system.

FUNCTIONAL REQUIREMENT:

-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 access to.

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

**2. REGISTER NEW LOG IN :**

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. REGISTER NEW BOOK Description of feature :**

This feature allows to add new books to the library.

FUNCTIONAL REQUIREMENT :

-System must be able to verify information.

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

**4. SEARCH BOOKS:**

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 entered

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

**5. ISSUE BOOKS AND RETURN BOOKS :**

DESCRIPTION OF FEATURE :

-This feature allows to issue and return books and also view reports of book issued.

FUNCTIONAL REQUIREMENTS :

-System must be able to enter issue information in database.

-System must be able update number of books.

-System must be able to search if books is available or not before issuing.

-System should be able to to enter the issue and return date information.

**6. SOFTWARE REQUIREMENTS :**

**-** We need a operating system –Windows 10 is used as the operating

system is stable and supports features and is more user friendly.

-Development tools and Programming language –HTML is used to write the whole code and develop webpages with css, ,javascript for styling webpages.

**Roles Among Students**

Aakash Kumar Pushp collected all the information regarding the

project and also brought the resources from which our project is

formed.

Gaurav Chawla designed the code for the project and also

made the final report of the project , “LIBRARY MANAGEMENT

SYSTM” .

Priyanshu Gupta also designed the code and executed the code.

**SWOT ANALYSIS**

This project will help out in numerous ways such that in order of searching the books.

It is very helpful in searching of books either if any book is present in library or not. We

don’t need to search the stacks in the library. We can directly find it through the website

and also book it. We can also issue a book online and by just a mini verification process/

It too have some weakness as sometimes if the record is not updated, then it

doesn’t clearly mention the number of books present in the library.

Also ,some times due to low server and high load in the exam time on the webpage ,

some books are unable to issue, which is a very great problem that we hav to face.

Moreover it brings up opportunity for the faculties to spread the information

Regarding the books directly through it.

It is made easy for them to convey it.

It have threats from the disturbing elements which may prank the record

Of books or can fakely issue the book from some fake account.

It have less privacy than offline mode but still its good than it because

it reduces stress a lot .