

# **Project Report**

**On**

## **E-Library Management System**

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## **CERTIFICATE**

Certified that this is a bonafide record of the project work titled

### **E-LIBRARY MANAGEMENT SYSTEM**

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of VI semester BSc in the year 2021 in

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We take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. We extend our sincere and heartfelt thanks to our esteemed guide, **Monodeep Banerjee**, for providing us with the right guidance and advice at the crucial junctures and for showing me the right way. We also take this opportunity to express a deep sense of gratitude to our other guide . We would like to thank our friends and family for the support and encouragement they have given us during the course of our work.

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## **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

# **CHAPTER 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:

- Student and Admin Login page.
- Admin can add books, can check all the request and issued books.
- Student can issue books which are available , the can request for some new books.
- A return option for admin that ensures issued book has been returned.
  - Sign up facility to add new students.
  - Password update facility for both admin and student.

### **1.2 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 ,WINDOWS7, UBUNTU
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE
DATABASE	MY SQL

## **CHAPTER 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 GENERAL DESCRIPTION

#### 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 time-saving.

#### 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 accident 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.



- 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 access library as searching and book transaction will be very faster .

#### **RELIABILITY REQUIREMENT**

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

#### **USABILITY REQUIREMENT**

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.

#### **ORGANIZATIONAL REQUIREMENT**

##### **IMPLEMENTATION REQUIREMENTS**

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

##### **DELIVERY REQUIREMENTS**

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

##### Description of feature

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.

##### Functional requirements

- 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.

#### 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 with the help of database with proper validity check.

#### 1.3 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
- User must enter both Book Name and Author name to register.

#### 1.4 BOOK ISSUE

### DESCRIPTION OF FEATURE

This feature is for student after accessing these a menu will be opened that contains list of all available books , from which student can select the book.

#### Functional requirements

- System must able to show all the books in the menu option.
- System should check the validity of student ID before giving consent to issue.
- After book issue admin must see the book details issued by that particular student from his side.

### 1.5 BOOK REQUEST

#### DESCRIPTION OF FEATURE

This feature is for student after accessing these student must have to fill the form with proper book name and author name.

### Functional requirements

- System should check the validity of student ID before giving consent to issue.
- After book request admin must see the book details requested by that particular student from his side.

### 1.6 RETURN OPTION

#### DESCRIPTION OF FEATURE

This feature is for admin when a student return a book to the library admin must have to press return button for that particular book and student ID and these ensure the returned book is removed from issue book table.

### Functional requirements

- System must ensure that the returned book must have to be removed from issue table at admin side.

### 1.6 PASSWORD UPDATE

#### DESCRIPTION OF FEATURE

This feature allows both admin and student to update their password for Library management.

### Functional requirements

- System should check the validity of old password given by student.

- System must check that the old and new password must be same.

## **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 2<sup>nd</sup> generation is used as a processor because it is fast than other processors and 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 retrieve 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 very 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 library 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:

- The students will register them through Online
- Password update in particular interval provides more security.
- Individual student can request or issue books provided their student ID should match with existing database.
- Individually each member will have his account through which he can access the information he needs.
- Book details like authors, book name totally maintained by library, present available all this information can be made handy.
- 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.

## 2.3 SOFTWARE TOOLS USED

The whole Project is divided in two parts the front end and the back end.

### 2.3.1 Front end

The front end is designed using of html , Php ,css, Java script

- **HTML- HTML or Hyper Text Markup Language** is the main markup language for creating web pages and other information that can be displayed in a web browser. HTML is written in the form of HTML elements consisting of *tags* enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent *empty elements* and so are unpaired, for example <img>. The first tag in a pair is the *start tag*, and the second tag is the *end tag* (they are also called *opening tags* and *closing tags*). In between these tags web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page. HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.
  
- **CSS- Cascading Style Sheets(CSS)** is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation. CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification.

of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for table less web design). CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when

read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified. However if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied. CSS specifies a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called *cascade*, priorities or *weights* are calculated and assigned to rules, so that the results are predictable.

- **PHP-** **PHP** is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. Originally created by

Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by The PHP Group. While PHP originally stood for *Personal Home Page*, it now stands for *PHP: HypertextPreprocessor*, a recursive backronym. PHP code is interpreted by a webserver with a PHP processor module, which generates the resulting web page: PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP is free software released under the PHP License. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free of charge.





**MySQL-** **MySQL**("My S-Q-L", officially, but also called "My Sequel") is (as of July 2013) the world's second most widely used open-source relational database management system (RDBMS). It is named after co-founder Michael Widenius daughter, My. The SQL phrase stands for Structured Query Language. The MySQL development project has made its source code available under the terms of the GNU General Public License, as well as under a variety

of proprietary agreements. MySQL was owned and sponsored by a single for-profit firm, the Swedish company MySQL AB, now owned by Oracle Corporation

.MySQL is a popular choice of database for use in web applications, and is a central component of the widely used LAMP open source web application software stack (and other 'AMP' stacks). LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python." Free-software-open source projects that require a full-featured database management system often use MySQL. For commercial use, several paid editions are available, and offer additional functionality. Applications which use MySQL databases

include: TYPO3, MODx, Joomla, WordPress, phpBB, MyBB, Drupal and other

software. MySQL is also used in many high-profile, large-scale websites, including

Wikipedia, Google (though not for searches), Facebook, Twitter, Flickr, and

YouTube

## CHAPTER 3

## SYSTEM DESIGN

### 3.1 TABLE DESIGN

## VARIOUS TABELS TO MAINTAIN INFORMATION

### ➤ Books Table from Database

The screenshot displays the phpMyAdmin interface for the 'project' database. The 'books' table structure is shown with the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	Bookname	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	Author	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More

Below the column list, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Fulltext', and 'Fulltext'. There are also buttons for 'Print', 'Propose table structure', 'Move columns', and 'Normalize'. A section for 'Indexes' shows a primary index on the 'ID' column. A 'Partitions' section indicates 'No partitioning defined'.

A dialog box at the bottom asks: 'Would you like to store your password for localhost?' with 'Yes' and 'Not for this site' buttons.

## ➤ Admin Table from Database

Server: MySQL 3306 Database: project Table: admin

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	AID	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More
2	password	varchar(14)	latin1_swedish_ci		Yes	NULL		Primary	Change Drop More

Indexes: No index defined!

Partitions: No partitioning defined!

Would you like to store your password for localhost? [More info](#) Yes Not for this site

## ➤ student Table from Database

Server: MySQL 3306 Database: project Table: student

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Sid	varchar(3)	latin1_swedish_ci		No	None			Change Drop More
2	Name	varchar(13)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	Mail	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	sem	int(11)			Yes	NULL			Change Drop More
5	Branch	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More
6	password	varchar(10)	latin1_swedish_ci		Yes	NULL			Change Drop More

Indexes: PRIMARY BTREE Yes No Sid 1 A No

Partitions: No partitioning defined!

Would you like to store your password for localhost? [More info](#) Yes Not for this site

## ➤ issuebook Table from Database

The screenshot shows the phpMyAdmin interface for the 'project' database. The 'issuebook' table structure is displayed with the following columns:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	ID	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	Sid	varchar(3)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	Bookname	varchar(14)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	Author	varchar(15)	latin1_swedish_ci		Yes	NULL			Change Drop More
5	Date	date			Yes	NULL			Change Drop More

Below the table structure, there are sections for 'Indexes' and 'Partitions'. The 'Indexes' section shows a primary index on the 'ID' column. The 'Partitions' section is empty.

A dialog box at the bottom asks: "Would you like to store your password for localhost?" with 'Yes' and 'Not for this site' buttons.

## ➤ Request book table from Database

The screenshot shows the phpMyAdmin interface for the 'project' database. The 'request' table structure is displayed with the following columns:

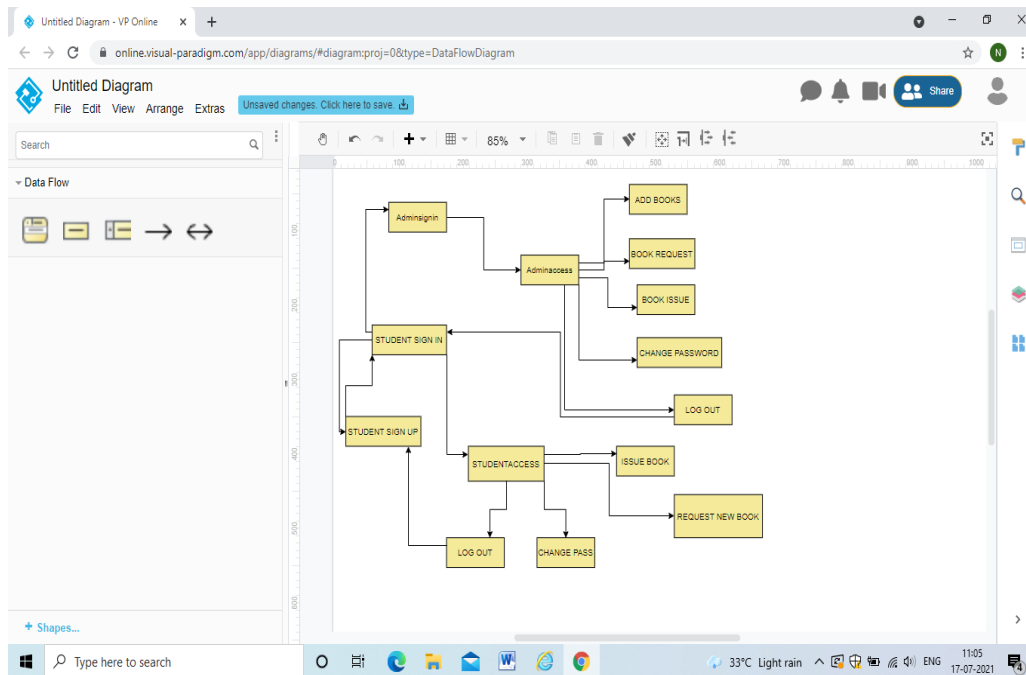
#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Sid	varchar(3)	latin1_swedish_ci		Yes	NULL			Change Drop More
2	BookName	varchar(15)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	Author	varchar(20)	latin1_swedish_ci		Yes	NULL			Change Drop More

Below the table structure, there are sections for 'Indexes' and 'Partitions'. The 'Indexes' section shows a message: "No index defined!". The 'Partitions' section shows a message: "No partitioning defined!".

A dialog box at the bottom asks: "Would you like to store your password for localhost?" with 'Yes' and 'Not for this site' buttons.

## 3.2 DATA FLOW DIAGRAMS

### DATA FLOW DIAGRAM FOR Library management.



After entering to the home page of the website , Admin can choose the Admin Login option where they are asked to enter username & password , and if he/she is a valid user then a teacher login page will be displayed.

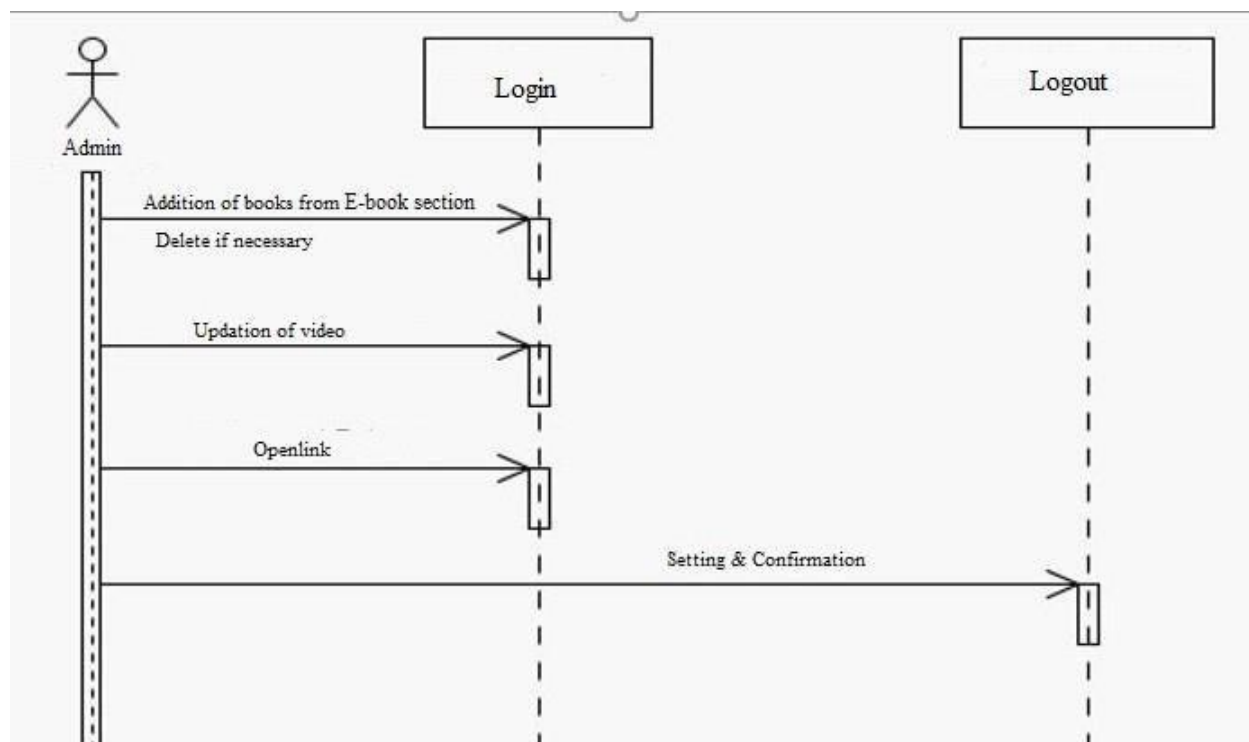
After entering to the home page of the website , One can choose either student signin or Admin signin option where they are asked to enter username & password , and if he/she is a valid user then Student access or Admin access page will be opened accordingly.

New Student can also sign up by entering all the details into the form.

For admin access admin have the option to ADD book , view issued books , view requested books, and password update.

For Student access student have the option to issue books , request new books , update password.

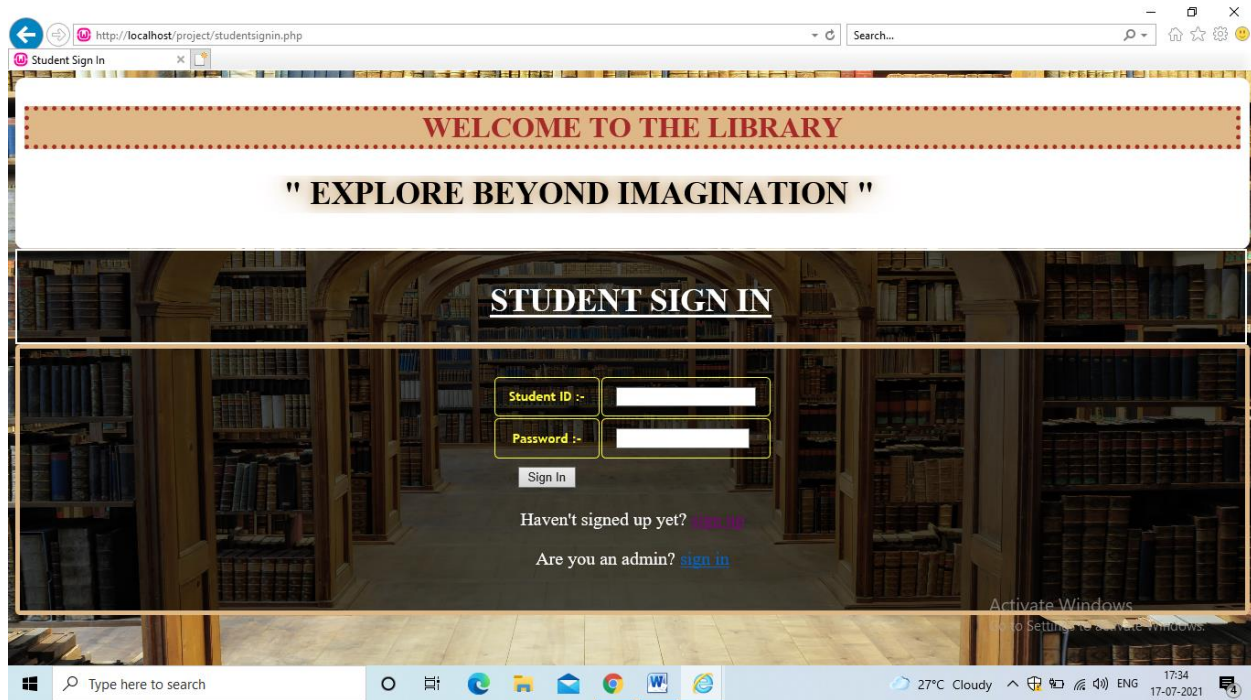
## SEQUENCE DIAGRAM



## CHAPTER 4

### SYSTEM IMPLEMENTATION

#### 4.1 Screenshot for homepage





## 4.2 Screenshot of New student signup

http://localhost/project/studentsignup.php

Student Sign Up

**WELCOME TO THE LIBRARY**

**" EXPLORE BEYOND IMAGINATION "**

STUDENT SIGN UP

Student ID :-

Name :-

Mail:

Department:

Semester: 1

Password:

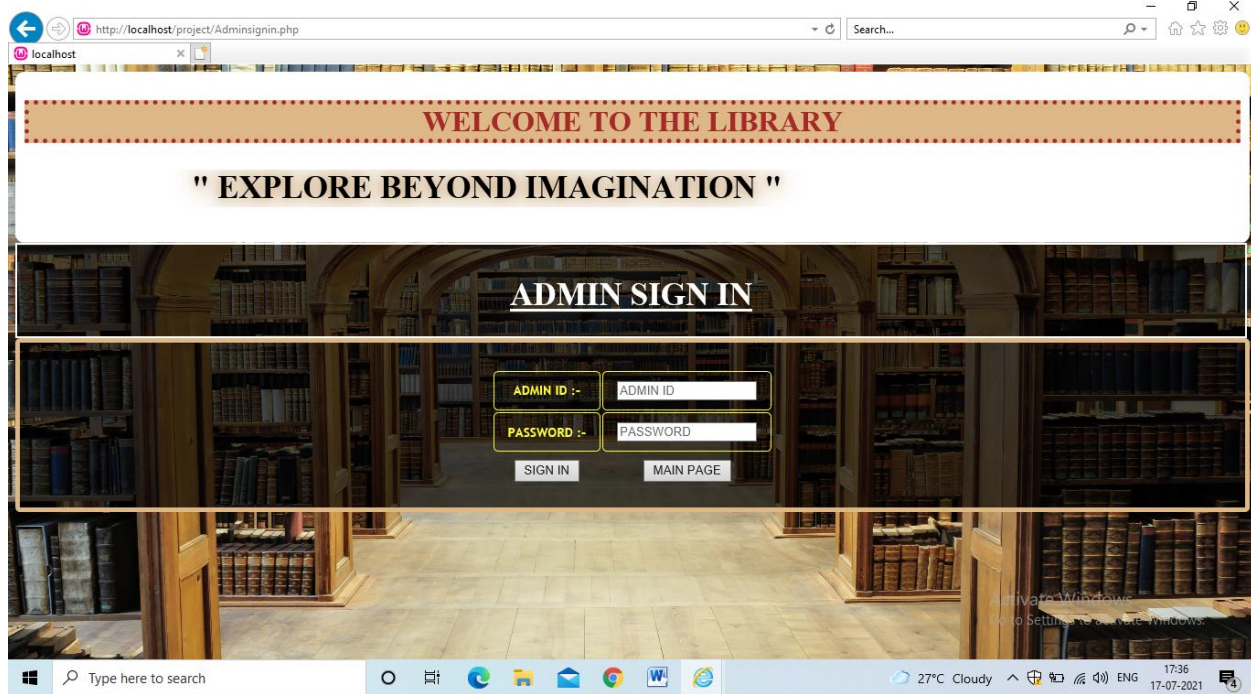
[Already Signed Up?](#)

Activate Windows  
Go to Settings to activate Windows.

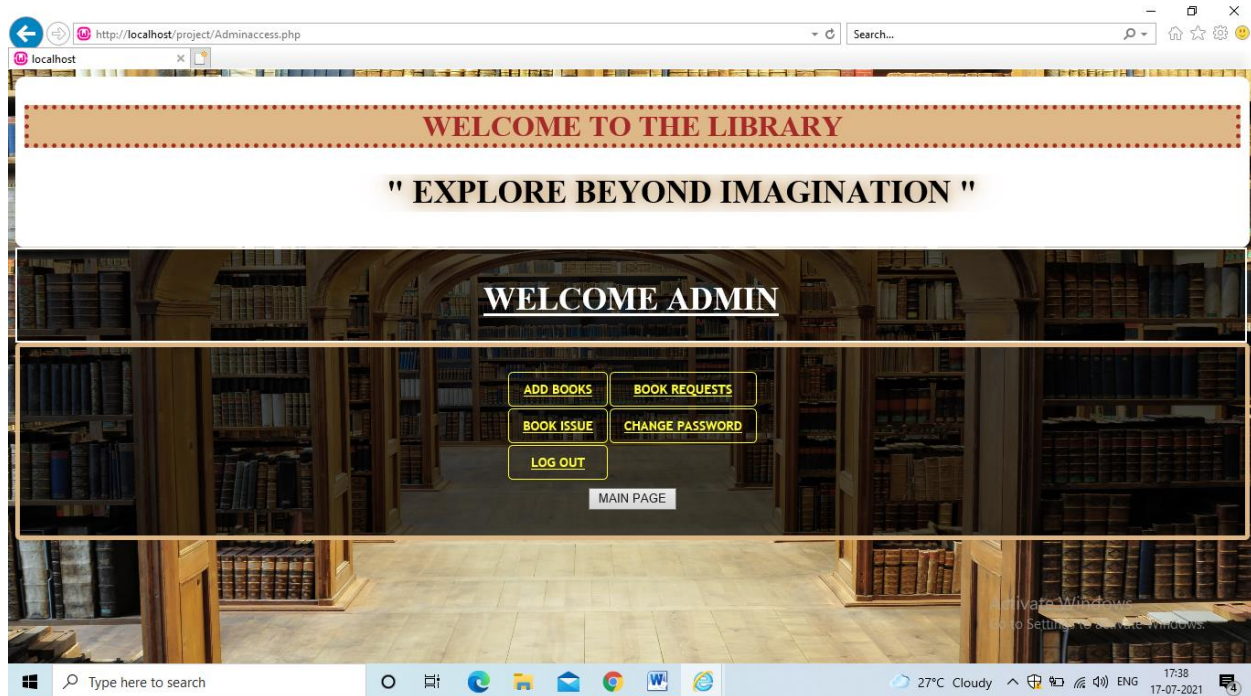
Type here to search

27°C Cloudy 17:35 17-07-2021

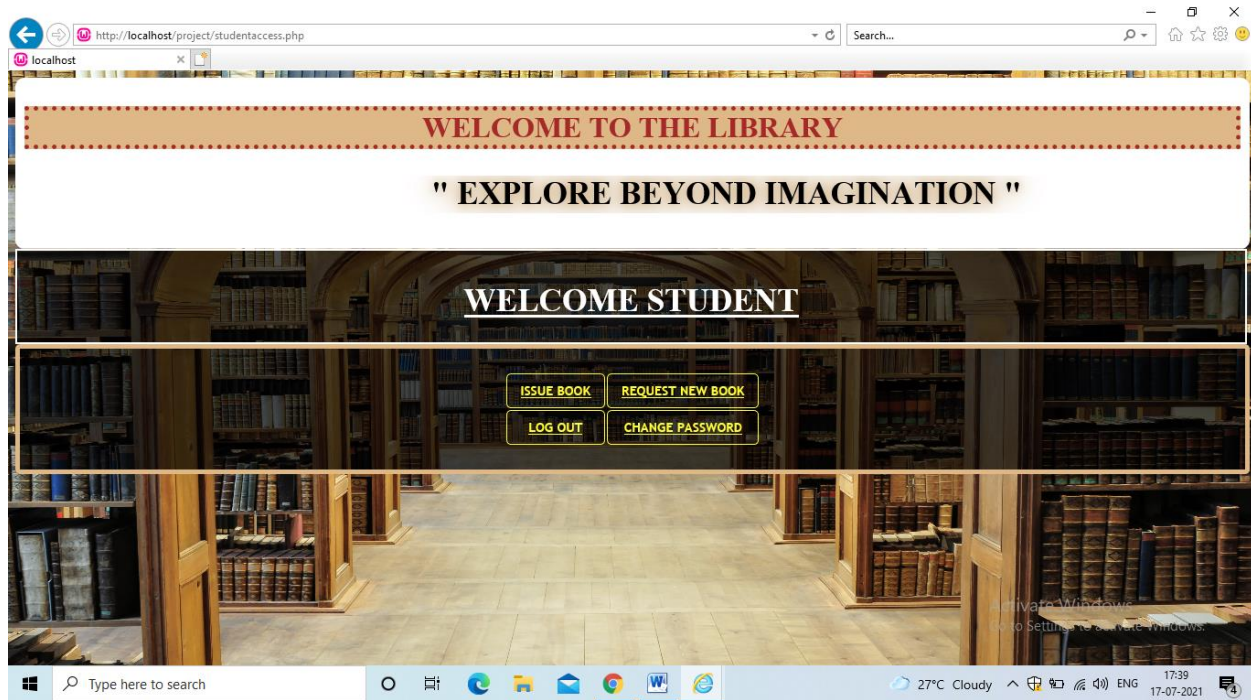
### 4.3 Screenshot of Admin signin



#### 4.4 Screenshot of Admin access page

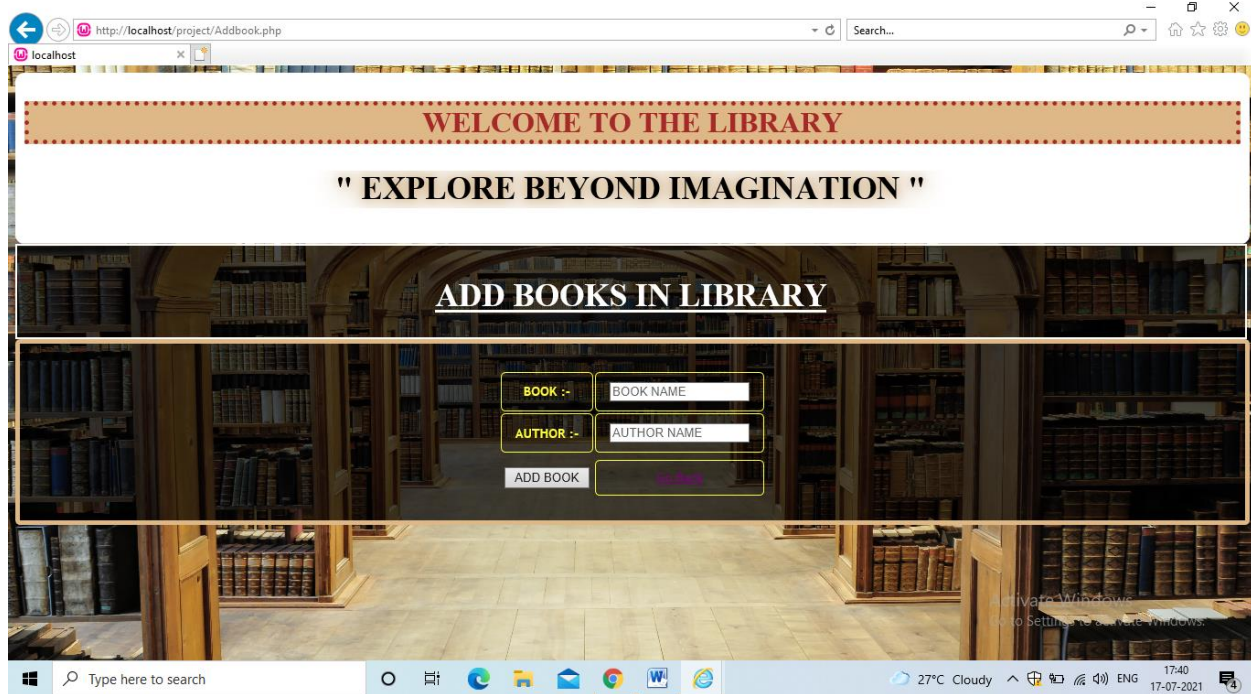


#### 4.5 Screenshot of Student access page

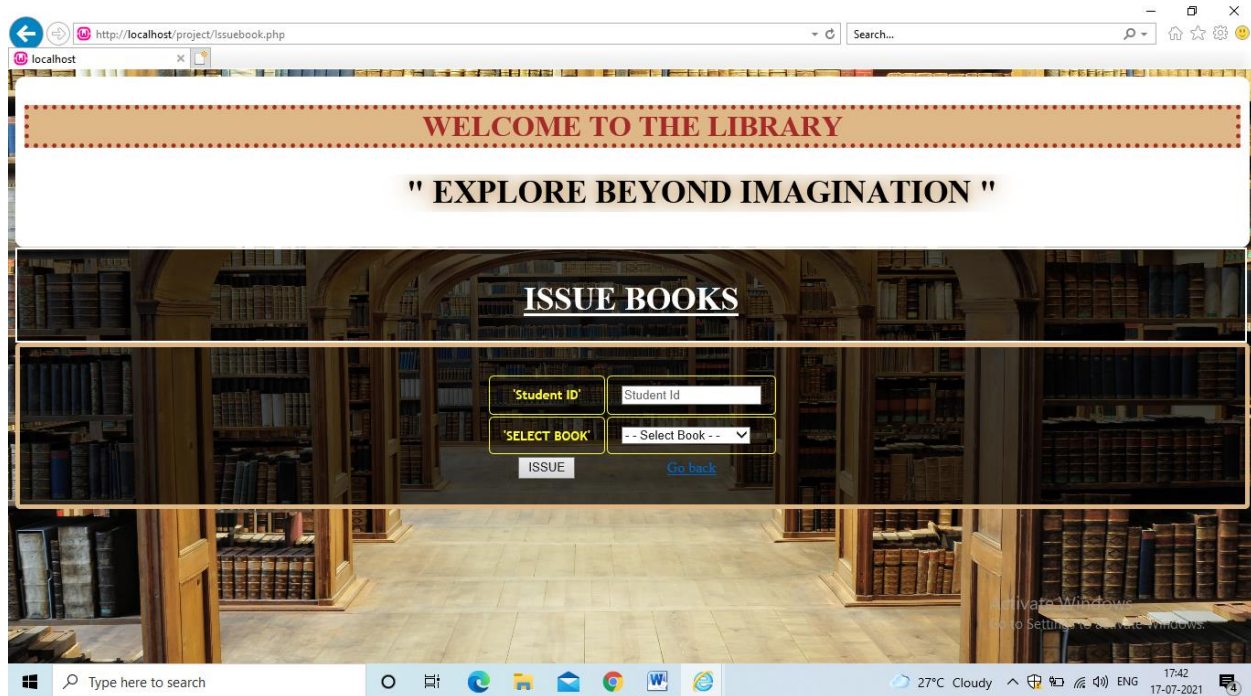




#### 4.6 Screenshot of add new book page



#### 4.7 Screenshot of Issue book page



#### 4.8 Screenshot of password update page

The screenshot displays a web browser window with the address bar showing `http://localhost/project/Studentpassword.php`. The page features a header with the text "WELCOME TO THE LIBRARY" and a subtitle " " EXPLORE BEYOND IMAGINATION " ". Below this, the main heading is "CHANGE PASSWORD STUDENT". The form contains four input fields: "Student ID :-", "OLD PASSWORD :-", "NEW PASSWORD :-", and "RETYPE PASSWORD :-". Each field is accompanied by a label and a text input box. At the bottom of the form, there are two buttons: "UPDATE" and "MAIN PAGE". The background of the page is a library interior with bookshelves. The Windows taskbar at the bottom shows the search bar, task view button, and several application icons, along with system status information including temperature, weather, and time.

WELCOME TO THE LIBRARY

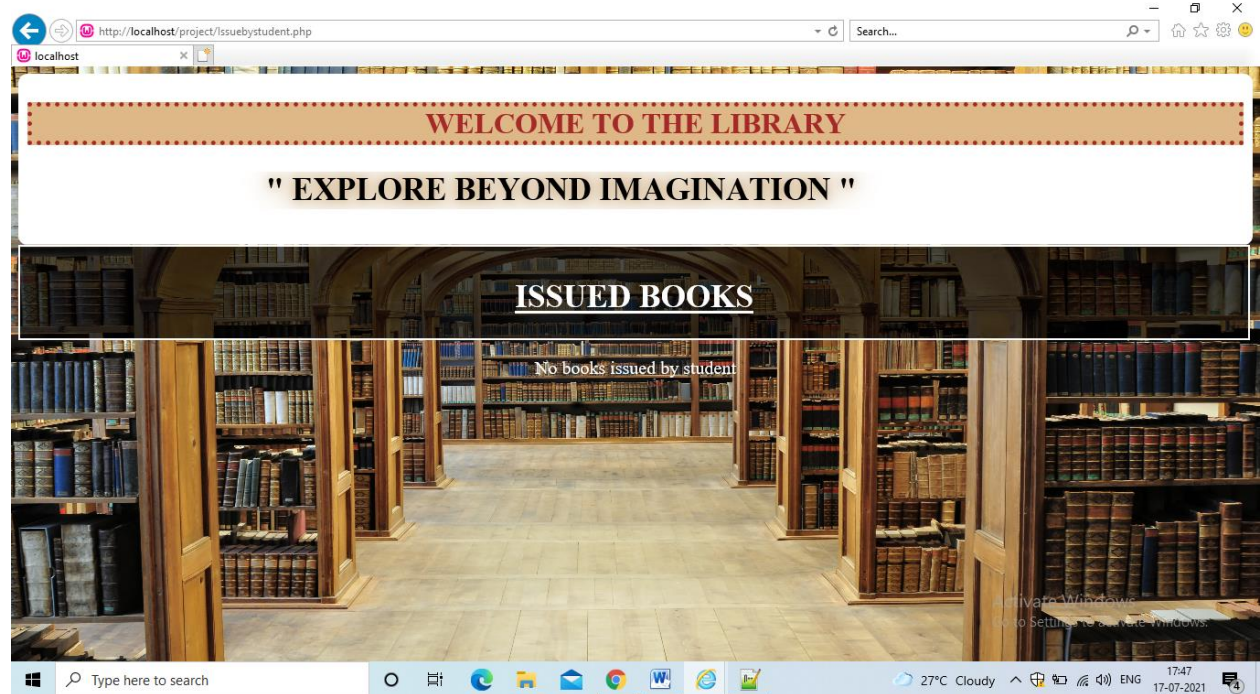
" EXPLORE BEYOND IMAGINATION "

CHANGE PASSWORD STUDENT

Student ID :-	<input type="text"/>
OLD PASSWORD :-	<input type="password"/>
NEW PASSWORD :-	<input type="password"/>
RETYPE PASSWORD :-	<input type="password"/>

UPDATE MAIN PAGE

#### 4.9 Screenshot of issued book records





## 5.0 Screenshot of Student book request page

WELCOME TO THE LIBRARY

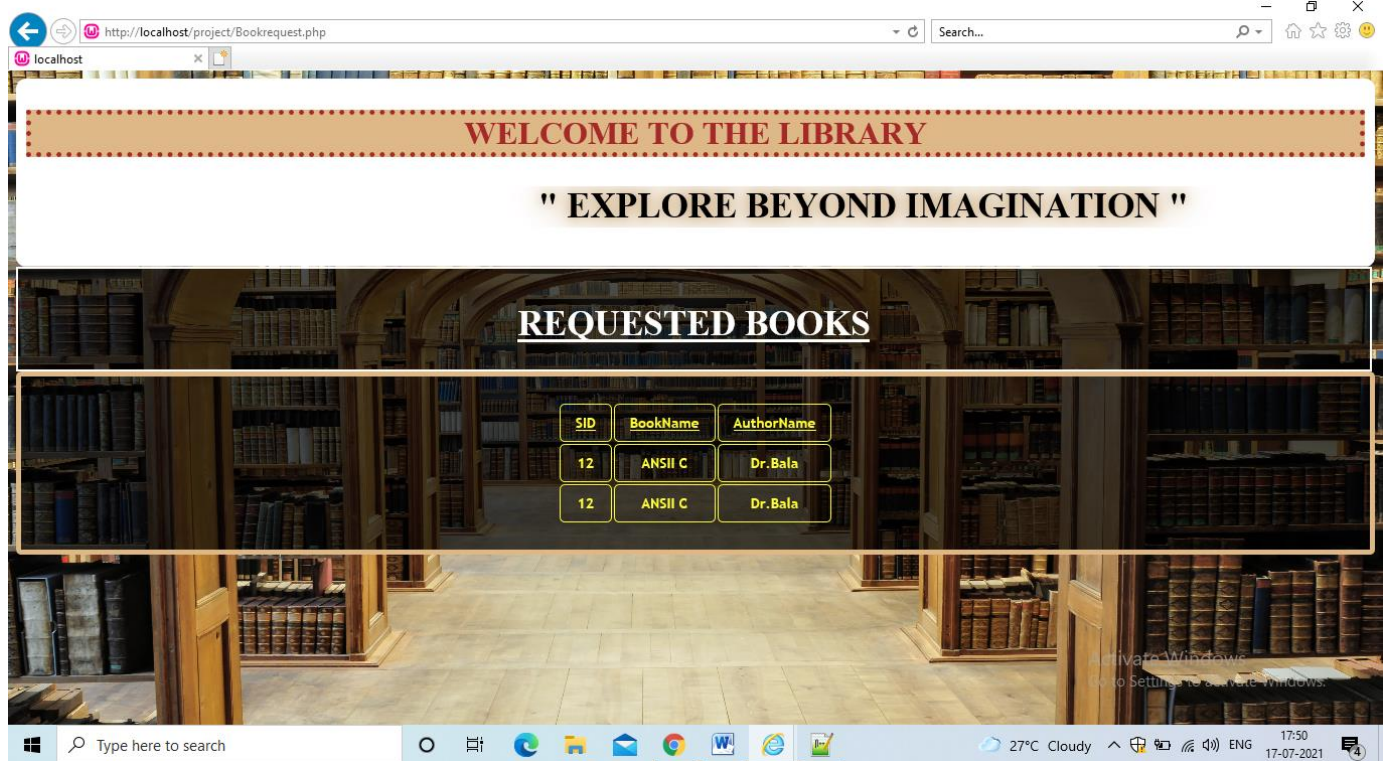
" EXPLORE BEYOND IMAGINATION "

**STUDENT BOOK REQUEST**

STUDENT ID :-	<input type="text" value="STUDENT ID"/>
BOOK NAME :-	<input type="text" value="BOOK NAME"/>
AUTHOR :-	<input type="text" value="AUTHOR NAME"/>

[Go back](#)

## 5.1 Screenshot of requested book records



## **5.2 MODULE DESCRIPTION**

For Library Management System it is divided into the following Modules:

# **CHAPTER 5**

## **SYSTEM TESTING**

The aim of the system testing process was to determine all defects in our project .The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

- 1.Unit testing
- 2.integration testing

## **UNIT TESTING**

Unit testing is undertaken when a module has been created and successfully reviewed. In order to test a single module we need to provide a complete environment i.e. besides the module we would require

- The procedures belonging to other modules that the module under test calls
- Non local data structures that module accesses
- A procedure to call the functions of the module under test with appropriate parameters

Unit testing was done on each and every module that is described under module description of chapter 4

### 1. Test For the admin module

- Testing admin login form-This form is used for log in of administrator of the system. In this we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password

- Book Addition- Admin can enter details of book and can add the details to the main book table also he can view the books requests .

## 2. Test for Student login module

- Test for Student login Form-This form is used for log in of Student .In this we enter the username and password if all these are correct studentlogin page will open other wise if any of data is wrong it will get redirectedback to the login page and again ask for libraryid, username and password.
- Test for account creation- This form is used for new account creation when student does not fill the form completely it asks again to fill the whole form when he fill the form fully it gets redirected to page which show waiting for conformation message as his data will be only added by administrator after verification.

## **INTEGRATION TESTING**

In this type of testing we test various integration of the project module by providing the input .The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

## **CHAPTER 6**

### **CONCLUSION & FUTURE SCOPE**

This website provides a computerized version of library management system which will benefit the students as well as the staff of the library.

It makes entire process online where student can search books, staff can generate reports and do book transactions. It also has a facility for student login where student can login and can see status of books issued as well request for book or give some suggestions. It has a facility of teacher's login where teachers can add lectures notes and also give necessary suggestion to library and also add info about workshops or events happening in our college or nearby college in the online notice board.

There is a future scope of this facility that many more features such as online lectures video tutorials can be added by teachers as well as online assignments submission facility , a feature Of group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.

## **CHAPTER 7**

## **REFERENCES**

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