



IN THE NAME OF ALLAH THE MOST BENEFICENT
AND THE MOST MERCIFUL

Online Library Management System (LMS)

Submitted By

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2017-GCUF-061762

DECLARATION

The work reported in this thesis was carried out by me under the supervision of **Mr. Rana Hammad Habib Sb**, Department of Computer Science Ali Fatimah College of Science and Management, Faisalabad Pakistan. I hereby declare that the Online Library Management System (LMS) and the content of thesis are the product of my own research and no part has been copied from any publish source (except he references, standard mathematical or genetic models/equations/formula/protocols etc.). I further declare that this work has not been submitted for award of any other degree /diploma. The University may act if the information provided is found inaccurate at any stage

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CERTIFICATE BY THE PROJECT SUPERVISOR

We certify that the contents and form of thesis submitted by **Mr. M. Ali Qazi**, Registration No. **2017-GCUF-061762** has been found satisfactory and in accordance with the prescribed format. We recommend it to be processed for the evaluation by the External Examiner for the award of degree.

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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

General Terms

ONLINE LIBRARY MANAGEMENT SYSTEM.

Keywords

Management System, Web Application, HTML, CSS, PHP, JavaScript, jQuery, MySQL

CHAPTER NO. 1

INTRODUCTION

This chapter gives an overview about the aim, objectives, background and operation environment of the system.

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 book and keep track

Open link for Learning Websites

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	Inter core processor
Operating System	Windows Vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Linux
Memory	1GB Ram or more
Hard Disk Space	Minimum 3GB for Database for future use
Database	MySQL

CHAPTER NO. 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:

Online 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. Sometimes due to some human error there may be a loss of records.

- File damaged When a computerized system is not their 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

- 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 perform 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 in front end with php as server-side scripting language which will be used for database connectivity and the backend i.e. the 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
- System must be able to delete information if information is wrong

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
- 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 entered
- 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, JavaScript 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 1GB 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 without 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 Management System** is proposed. The proposed system contains the following features:

- The students will register them through Online
- Individually each member will have his account through which he can access the information he needs.
- 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.

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, JavaScript

- **HTML- HTML (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 . 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.
- **JAVA SCRIPT- JavaScript (JS)** is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. It is also being used in server-side programming, game development and the creation of desktop and mobile applications. JavaScript is a prototype-based scripting language with dynamic typing and has first-class functions. Its syntax was influenced by C. JavaScript copies many names and naming conventions from Java, but the two languages are otherwise unrelated and have very different semantics. The key design principles within JavaScript are taken from the

Self and Scheme programming languages. It is a multi-paradigm language, supporting object-oriented, imperative, and functional programming styles. The application of JavaScript to use outside of web pages—for example, in PDF documents, site-specific browsers, and desktop widgets—is also significant. Newer and faster JavaScript VMs and platforms built upon them (notably Node.js) have also increased the popularity of JavaScript for server-side web applications. On the client side, JavaScript was traditionally implemented as an interpreted language but just-in-time compilation is now performed by recent (post-2012) browsers.

- **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: Hypertext Preprocessor, 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.

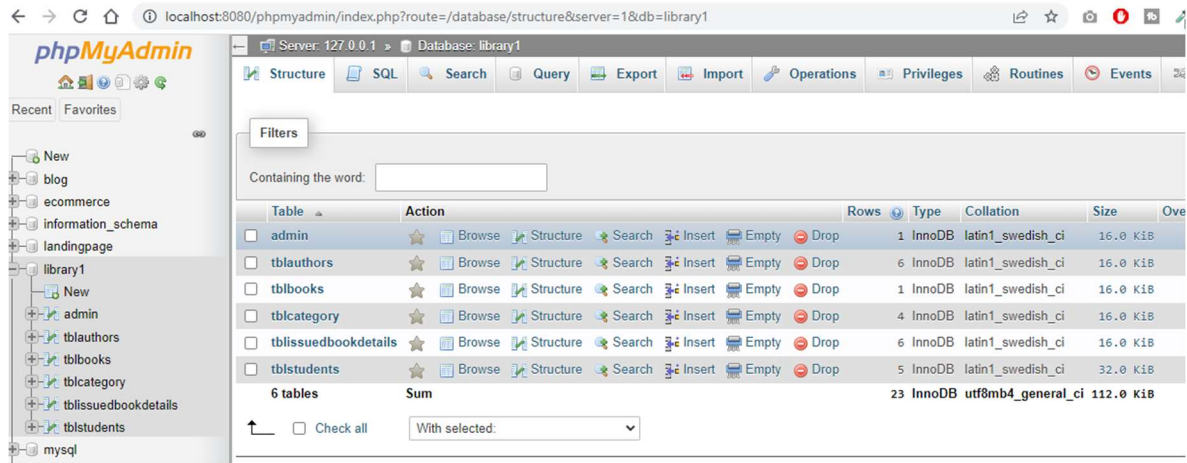
CHAPTER NO. 3

SYSTEM DESIGN

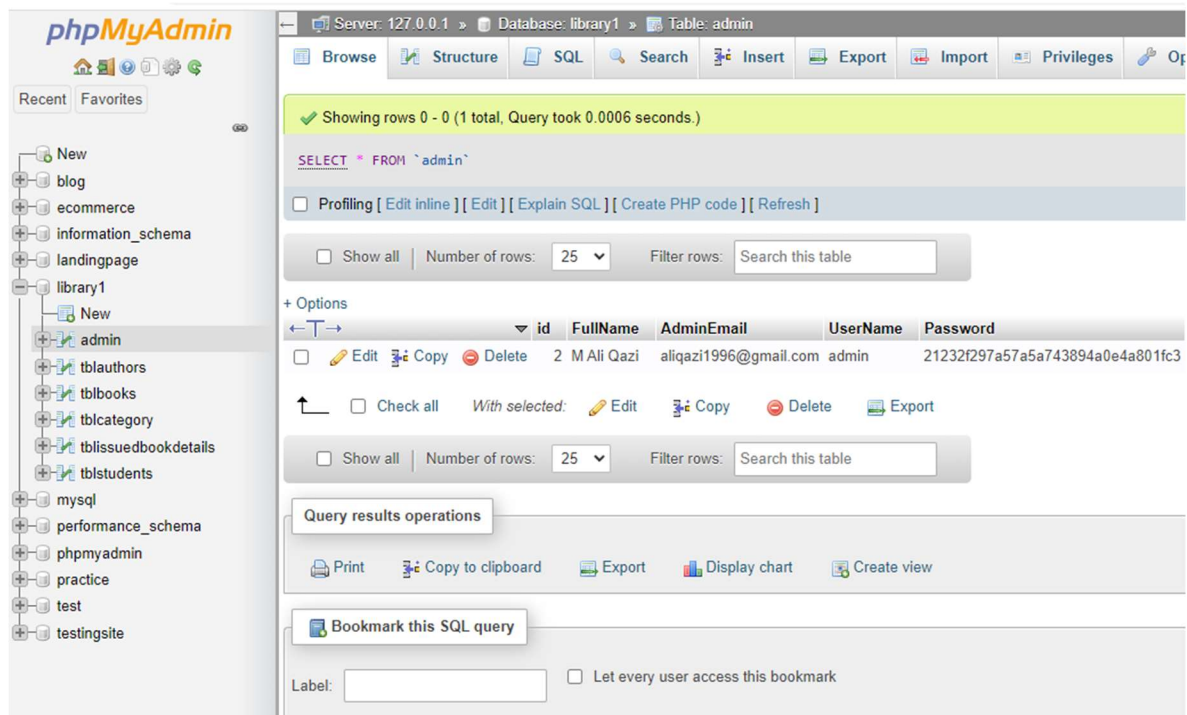
3.1 TABLE DESIGN

VARIOUS TABLES TO MAINTAIN INFORMATION

➤ Library Table from Database



➤ Admin Table from Database



➤ Author Table from Database

Server: 127.0.0.1 » Database: library1 » Table: tblauthors

Showing rows 0 - 5 (6 total, Query took 0.0005 seconds.)

```
SELECT * FROM `tblauthors`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	AuthorName	creationDate	UpdateDate
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Anuj kumar	2021-01-11 21:18:11	2021-07-01 20:16:59
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Chetan Bhagatt	2021-07-01 19:30:23	0000-00-00 00:00:00
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Anita Desai	2021-07-01 19:35:08	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	HC Verma	2021-07-01 19:35:21	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	R.D. Sharma	2021-02-02 19:35:36	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	fwdfirwer	2021-07-01 20:22:03	NULL

Check all | With selected: Edit Copy Delete Export

➤ Books Table from Database

Server: 127.0.0.1 » Database: library1 » Table: tblbooks

Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
SELECT * FROM `tblbooks`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table

+ Options

	id	BookName	CatId	AuthorId	ISBNNumber	BookPrice	RegDate	UpdateDate
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	physics	6	4	1111	15	0000-00-00 00:00:00	0000-00-00 00:00:00

Check all | With selected: Edit Copy Delete Export

➤ Categories Table from Database

Server: 127.0.0.1 » Database: library1 » Table: tblcategory

Showing rows 0 - 3 (4 total, Query took 0.0007 seconds.)

```
SELECT * FROM `tblcategory`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

	id	CategoryName	Status	CreationDate	UpdateDate
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	Romantic	1	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	Technology	1	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	Science	1	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	Management	0	NULL	NULL

Check all | With selected: Edit Copy Delete Export

➤ Issue Book Table from Database

Showing rows 0 - 5 (6 total. Query took 0.0008 seconds.)

SELECT * FROM `tblissuedbookdetails`

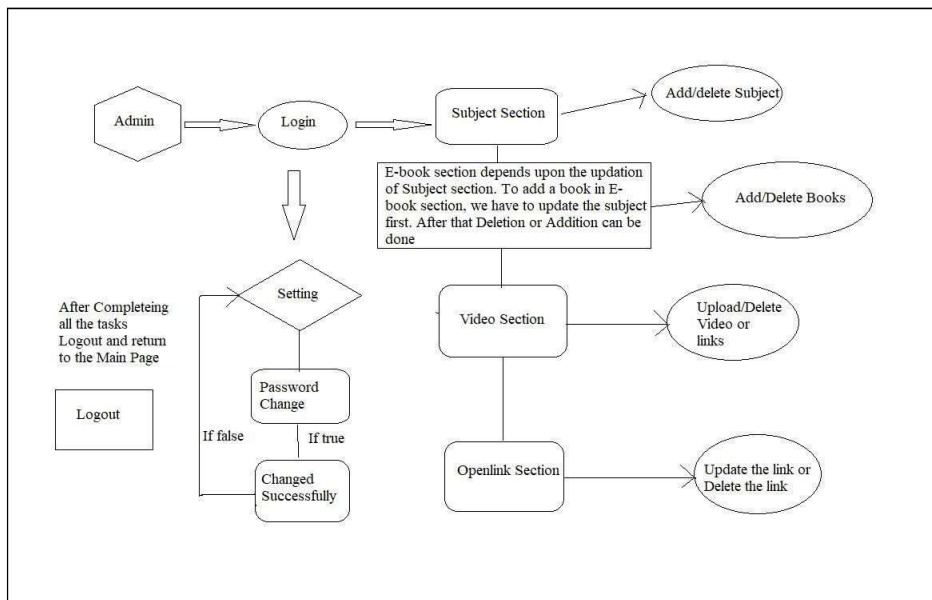
Options: Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

	id	BookId	StudentID	IssuesDate	ReturnDate	RetrunStatus	fine
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	1	SID002	NULL	NULL	1	0
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	1	SID002	NULL	NULL	1	5
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	3	SID002	NULL	NULL	0	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	3	SID002	NULL	NULL	1	2
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	1	SID009	NULL	NULL	NULL	NULL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	3	SID011	NULL	NULL	0	NULL

Check all | With selected: Edit Copy Delete Export

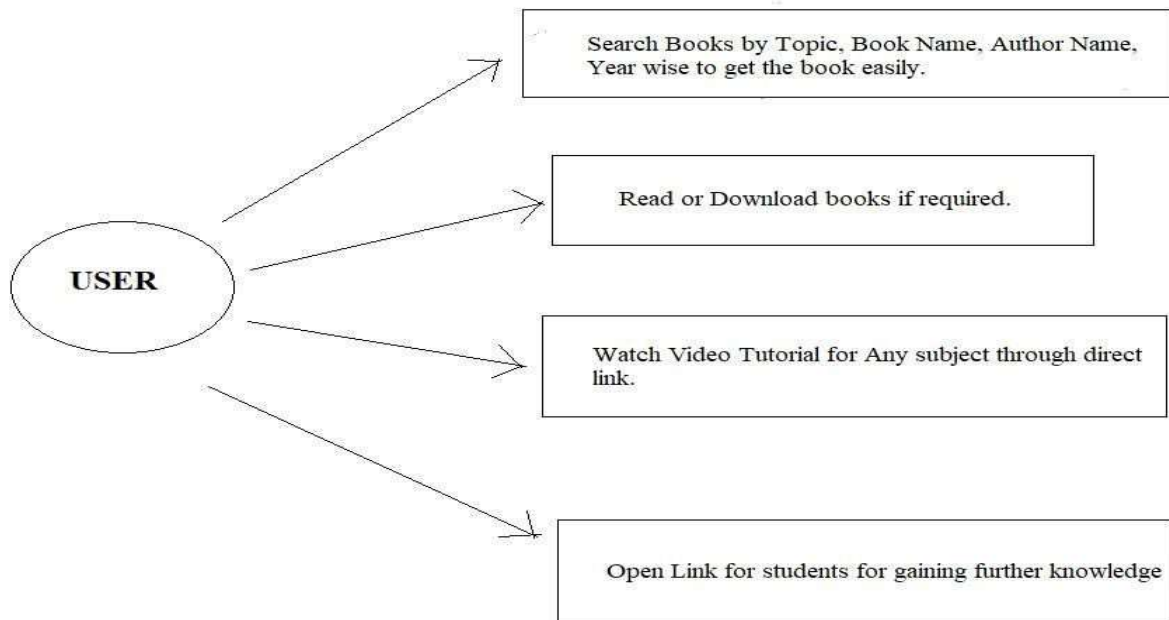
3.2 DATA FLOW DIAGRAMS

DATA FLOW DIAGRAM FOR ASMIN LOGIN



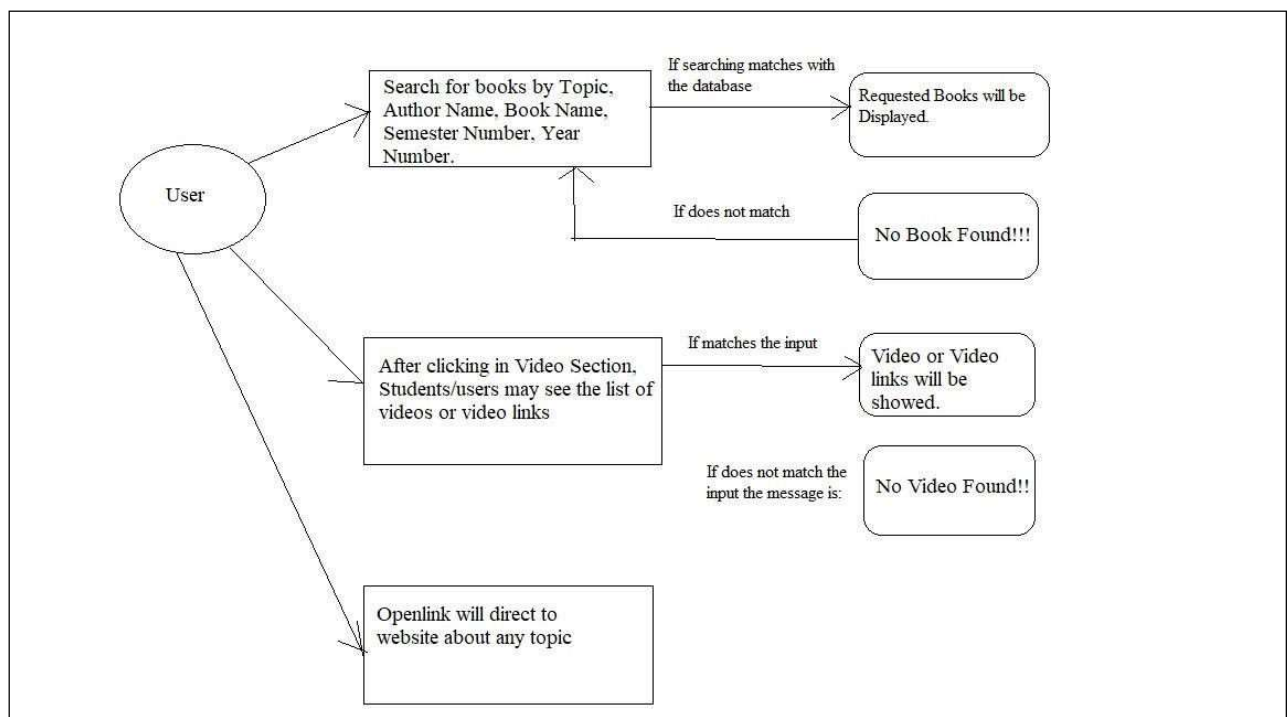
After entering to the home page of the website, Admin can choose the Admin Login option where they are asked to enter username & password, and if he/she is a valid user then a teacher login page will be displayed.

USE CAESE DIAGRAM FOR USER

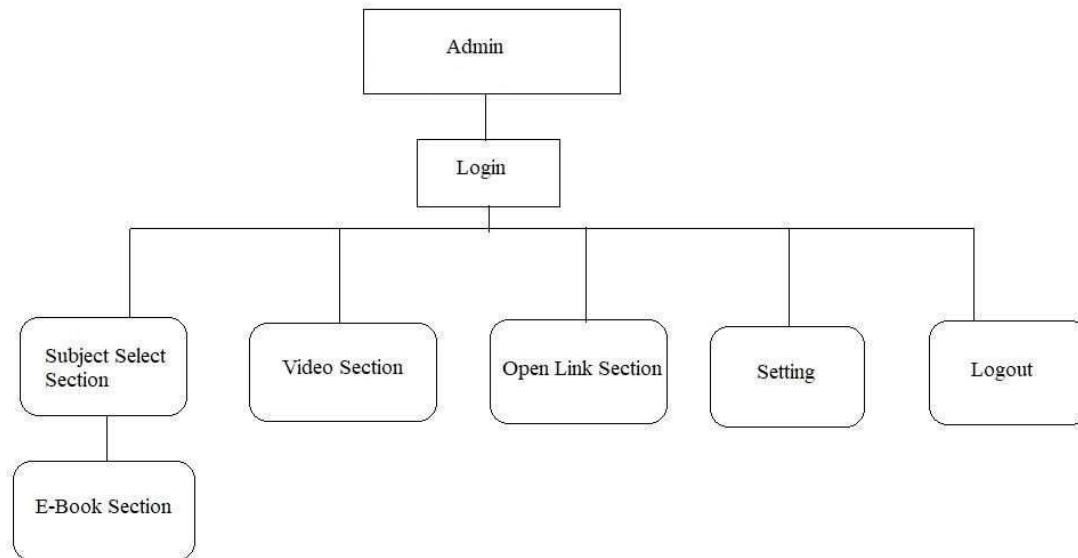


After entering to the home page of the website, student can choose the USER LOGIN option where they are asked to enter username & password, and if he/she is a valid user then a student login page will be displayed.

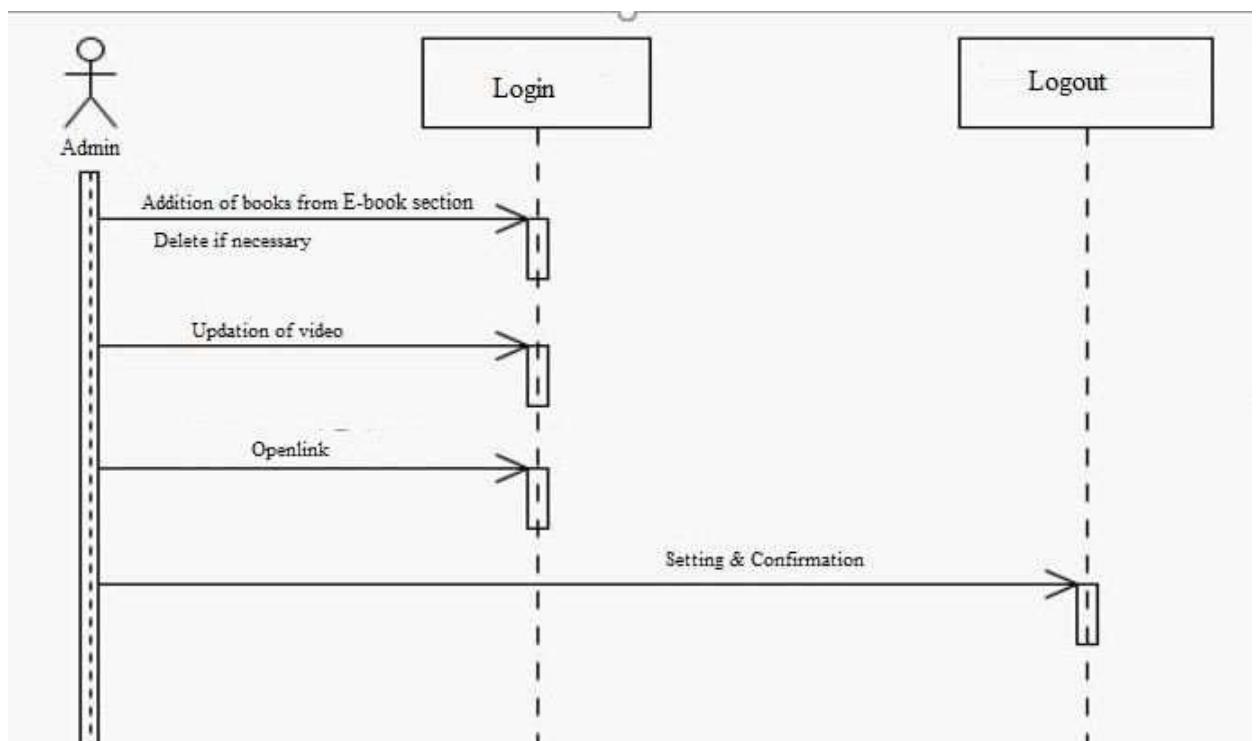
DATA FLOW DIAGRAMS FOR USER



USER CASE DIAGRAM FOR ADMIN



SEQUENCE DIAGRAM

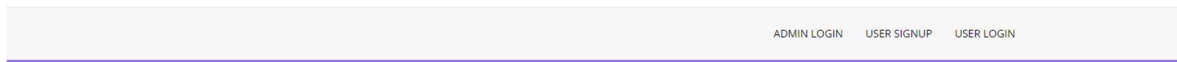


CHAPTER NO. 4

SYSTEM IMPLEMENTATION

4.1 Screenshot for homepage

eLibrary



USER LOGIN

LOGIN

Enter Email id

Password

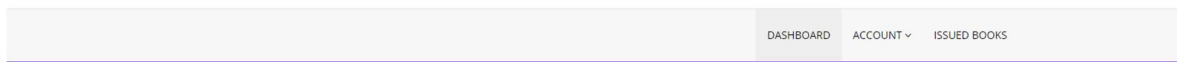
[Forgot Password](#)

[LOGIN](#) | [Not Register Yet](#)

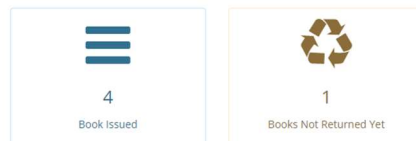
4.2 Screenshot of e-books from user

eLibrary

LOG ME OUT



USER DASHBOARD



4.3 Screenshot of issued books from user

eLibrary

LOG ME OUT

DASHBOARDACCOUNT ▼ISSUED BOOKS

MANAGE ISSUED BOOKS

Issued Books

10 records per pageSearch:

#	Book Name	ISBN	Issued Date	Return Date	Fine
1	physics	1111		Not Return Yet	2
2	physics	1111		Not Return Yet	

Showing 1 to 2 of 2 entriesPrevious1Next

4.4 Screenshot of user profile

DASHBOARDACCOUNT ▼ISSUED BOOKS

MY PROFILE

My Profile

Student ID : SID002

Reg Date : 2021-01-11 20:37:05

Last Updation Date : 2021-07-15 21:35:47

Profile Status : Active

Enter Full Name

Andrew Braza

Mobile Number :

9865472555

Enter Email

andrew1@gmail.com

Update Now

4.5 Screenshot of login for admin

eLibrary

ADMIN LOGINUSER SIGNUPUSER LOGIN

ADMIN LOGIN

LOGIN

Enter Username

Password

LOGIN


4.6 Screenshot of dashboard from admin

eLibrary

LOG OUT


DASHBOARD CATEGORIES v AUTHORS v BOOKS v ISSUE BOOKS v REG STUDENTS CHANGE PASSWORD

ADMIN DASHBOARD




1

Books Listed




6

Book Issued




3

Books Returned




6

Registered Users




1

Authors Listed



6

Listed Categories



4.7 Screenshot of add categories from admin

eLibrary

LOG OUT

DASHBOARD CATEGORIES ▾ AUTHORS ▾ BOOKS ▾ ISSUE BOOKS ▾ REG STUDENTS CHANGE PASSWORD

ADD CATEGORY

Category Info

Category Name

Status

☒ Active

☐ Inactive

Create

©Online Library Management System | Designed by : Muhammad Ali Qazi

4.8 Screenshot of manage categories from admin

eLibrary

LOG OUT

DASHBOARD CATEGORIES ▾ AUTHORS ▾ BOOKS ▾ ISSUE BOOKS ▾ REG STUDENTS CHANGE PASSWORD

MANAGE CATEGORIES

Categories Listing

10 records per page

Search:

#	Category	Status	Creation Date	Updation Date	Action
1	Romantic	Active			Edit Delete
2	Technology	Active			Edit Delete
3	Science	Active			Edit Delete
4	Management	Inactive			Edit Delete

Showing 1 to 4 of 4 entries

Previous 1 Next

4.9 Screenshot of add author from admin

eLibrary

LOG OUT

DASHBOARDCATEGORIES ▾AUTHORS ▾BOOKS ▾ISSUE BOOKS ▾REG STUDENTSCHANGE PASSWORD

ADD AUTHOR

Author info

Author Name

Add

©Online Library Management System | Designed by : Muhammad Ali Qazi

5.0 Screenshot of manage author from admin

DASHBOARDCATEGORIES ▾AUTHORS ▾BOOKS ▾ISSUE BOOKS ▾REG STUDENTSCHANGE PASSWORD

MANAGE AUTHORS

Authors Listing

10 records per page

Search:

#	Author	Creation Date	Updation Date	Action
1	Anuj kumar	2021-01-11 21:18:11	2021-07-01 20:16:59	Edit Delete
2	Chetan Bhagatt	2021-07-01 19:30:23	0000-00-00 00:00:00	Edit Delete
3	Anita Desai	2021-07-01 19:35:08		Edit Delete
4	HC Verma	2021-07-01 19:35:21		Edit Delete
5	R.D. Sharma	2021-02-02 19:35:36		Edit Delete
6	fwdfwrer	2021-07-01 20:22:03		Edit Delete

Showing 1 to 6 of 6 entries

Previous1Next

5.1 Screenshot of add books from admin

DASHBOARD

CATEGORIES

AUTHORS

BOOKS

ISSUE BOOKS

REG STUDENTS

CHANGE PASSWORD

ADD BOOK

Book Info

Book Name*

Category*

Select Category

Author*

Select Author

ISBN Number*

An ISBN is an International Standard Book Number.ISBN Must be unique

Price*

Add

5.2 Screenshot of manage books from admin

DASHBOARD

CATEGORIES

AUTHORS

BOOKS

ISSUE BOOKS

REG STUDENTS

CHANGE PASSWORD

MANAGE BOOKS

Books Listing

10 records per page

Search:

#	Book Name	Category	Author	ISBN	Price	Action
1	physics	Science	HC Verma	1111	15	<div>EditDelete</div>

Showing 1 to 1 of 1 entries

Previous1Next

5.3 Screenshot of issue books from admin

DASHBOARD

CATEGORIES

AUTHORS

BOOKS

ISSUE BOOKS

REG STUDENTS

CHANGE PASSWORD

ISSUE A NEW BOOK

Issue a New Book

Srtudent Id*

ISBN Number or Book Title*

Issue Book

©Online Library Management System | Designed by : Muhammad Ali Qazi

5.4 Screenshot of manage issue books from admin

DASHBOARD

CATEGORIES ▾

AUTHORS ▾

BOOKS ▾

ISSUE BOOKS ▾

REG STUDENTS

CHANGE PASSWORD

MANAGE ISSUED BOOKS

Issued Books

10 ▾ records per page

Search:

#	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Clide Louie	physics	1111		Not Return Yet	Edit
2	Andrew Braza	physics	1111		Not Return Yet	Edit
3	Andrew Braza	physics	1111		Not Return Yet	Edit

Showing 1 to 3 of 3 entries

Previous 1 Next

5.5 Screenshot of manage students from admin

DASHBOARD

CATEGORIES ▾

AUTHORS ▾

BOOKS ▾

ISSUE BOOKS ▾

REG STUDENTS

CHANGE PASSWORD

MANAGE REG STUDENTS

Reg Students

10 ▾ records per page

Search:

#	Student ID	Student Name	Email id	Mobile Number	Reg Date	Status	Action
1	SID002	Andrew Braza	andrew1@gmail.com	9865472555	2021-07-11 20:37:05	Active	Inactive
2	SID005	John Roberts	john@yahoo.com	8569710025	2021-07-11 20:41:27	Blocked	Active
3	SID010	Rey Tejada	rey@gmail.com	8585856224	2021-07-15 18:40:30	Active	Inactive
4	SID011	Clide Louie	CLIDE@gmail.com	4672423754	2021-07-15 23:00:59	Active	Inactive
5	SID012	Clive Dela Cruz	clive21@yahoo.com	0945208280	2021-04-11 18:46:30	Active	Inactive

Showing 1 to 5 of 5 entries

Previous 1 Next

5.6 Screenshot of change password

DASHBOARD

CATEGORIES ▾

AUTHORS ▾

BOOKS ▾

ISSUE BOOKS ▾

REG STUDENTS

CHANGE PASSWORD

USER CHANGE PASSWORD

Change Password

Current Password

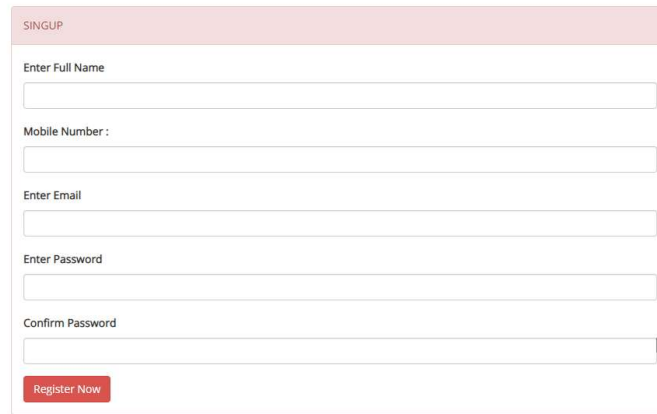
Enter Password

Confirm Password

Change

5.7 Screenshot of user signup

USER SIGNUP



A screenshot of a user signup form. The form is titled "SIGNUP" in a red header bar. It contains five input fields with labels: "Enter Full Name", "Mobile Number :", "Enter Email", "Enter Password", and "Confirm Password". A red "Register Now" button is located at the bottom of the form.

SIGNUP

Enter Full Name

Mobile Number :

Enter Email

Enter Password

Confirm Password

Register Now

CHAPTER NO. 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.
- Student account addition- In this section the admin can verify student details from student academic info and then only add student details to main library database it contains add and delete buttons if user click add button data will be added to student database and if he clicks delete button the student data will be deleted.
- 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 library id, username and password if all these are correct student login page will open

otherwise if any of data is wrong it will get redirected back to the login page and again ask for library id, 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 fills 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.

3. Test for teacher login module

Test for teacher login form- This form is used for log in of teacher. In this we enter the username and password if all these are correct teacher login 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.

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 NO. 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.