



Online Library Management System

JABALPUR ENGINEERING COLLEGE



Project Report on

Online Library Management (Web Based System)

For the partial fulfillment of the degree of

MASTER OF COMPUTER APPLICATION

5 th Semester

Session: 2020-2021

Submitted to:

Dr. Samar Upadhyay
(Head of the Department)

Submitted by:

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JABALPUR ENGINEERING COLLEGE



DECLARATION

Student is by declare that this Project Report tittled

Online Library Management (Web Based System)

Submitted in partial fulfillment for the award of “MASTER of COMPUTER APPLICATION” is a result of authentic analysis and the research undertaken by us. This same will be used only and only for the academic purpose and noting other than this.

Rajkumari Vishwakarma
0201CA181026

JABALPUR ENGINEERING COLLEGE



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We are extremely thankful to Dr. Samar Upadhyay [HOD] it would be impossible for us to carry out this project without their continuous guidance and support.

We should also like to extend our thanks to other teachers for helping us to understand the basic system.

It is our proud privilege to express our hear full gratitude and renewable, regard for their abounding and aable guidance inspiration and contractive criticism the tenure of project work,

Submitted by:

Rajkumari Vishwakarma

0201CA181026

JABALPUR ENGINEERING COLLEGE



CERTIFICATE

This is to certify that student of Master of Computer Application at **JABALPUR ENGINEERING COLLEGE** as has completed the project entitled.

Online Library Management **(Web Based System)**

We are submitting the project in partial fulfillment of the Degree of **MASTER OF COMPUTER APPLICATION** from **JABALPUR ENGINEERING COLLEGE** for academic year 2020-21.

(Internal Examiner)

(External Examiner)

JABALPUR ENGINEERING COLLEGE



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(Head of the Department)

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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 System** 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:

- Online book reading.
- A search column to search availability of books.
- Facility to download required book.
- Video tutorial for students.
 - 1) An Admin login page where admin can add books, videos or page sources
 - 2) Open link for Learning Websites

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.

1.3 OPERATION ENVIRONMENT

Processor	Intel Core Processor or Better Performance
Operating System	Windows Vista, Windows 7, Windows 10, Ubuntu
Memory	1 GB RAM or More
Hard Disk Space	Minimum 3 GB for DataBase Usages for Future
DataBase	MySQL

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 records

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 then 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 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.

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.

- 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 of site the homepage

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 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 a 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** 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, Java script

- **HTML- Hyper Text Markup Languageis**

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**

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.

- **js- JavaScript**

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 – Hypertext PreProcessor**

PHP a server-side scripting language designed for webdevelopment 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, 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 DataBase**

("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

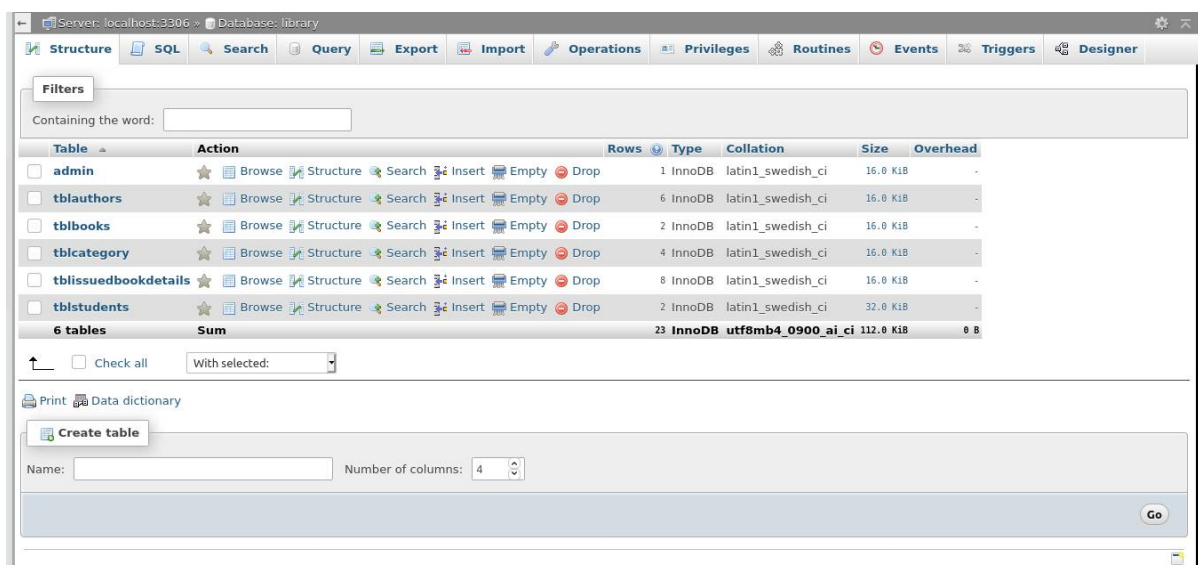
CHAPTER 3

SYSTEM DESIGN

3.1 TABLE DESIGN

VARIOUS TABLES TO MAINTAIN INFORMATION

- admin
- tblauthors
- tblbooks
- tblcategory
- tblissuedbookdetails
- tblstudents



Admin Table from Database

Server: localhost:3306 » Database: library » Table: admin

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int			No	None		AUTO_INCREMENT	Change Drop More
2	FullName	varchar(100)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	AdminEmail	varchar(120)	latin1_swedish_ci		Yes	NULL			Change Drop More
4	UserName	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
5	Password	varchar(100)	latin1_swedish_ci		No	None			Change Drop More
6	updatetime	timestamp		on update CURRENT_TIMESTAMP	No	0000-00-00 00:00:00		ON UPDATE CURRENT_TIMESTAMP	Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext

Print Move columns Normalize

Add 1 column(s) after updatetime Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	0	A	No	

Create an index on 1 column(s) Go

Authors from Database

Server: localhost:3306 » Database: library » Table: tblauthors

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int			No	None		AUTO_INCREMENT	Change Drop More
2	AuthorName	varchar(159)	latin1_swedish_ci		Yes	NULL			Change Drop More
3	creationDate	timestamp			Yes	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Change Drop More
4	Updatetime	timestamp		on update CURRENT_TIMESTAMP	Yes	NULL		ON UPDATE CURRENT_TIMESTAMP	Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Fulltext

Print Move columns Normalize

Add 1 column(s) after Updatetime Go

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	6	A	No	

Create an index on 1 column(s) Go

Books Table from Database

Server: localhost:3306 » Database: library » Table: tblbooks

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	BookName	varchar(255)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 3	CatId	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 4	AuthorId	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 5	ISBNNumber	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 6	BookPrice	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 7	RegDate	timestamp			Yes	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Change Drop More
<input type="checkbox"/> 8	UpdationDate	timestamp		on update CURRENT_TIMESTAMP	Yes	NULL		ON UPDATE CURRENT_TIMESTAMP	Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Fulltext](#)

[Print](#)
[Move columns](#)
[Normalize](#)

[Add](#) 1 column(s) after UpdationDate [Go](#)

[Indexes](#)

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	2	A	No	

Create an index on 1 column(s) [Go](#)

Category from Database

Server: localhost:3306 » Database: library » Table: tblcategory

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	CategoryName	varchar(150)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 3	Status	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 4	CreationDate	timestamp			Yes	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Change Drop More
<input type="checkbox"/> 5	UpdationDate	timestamp		on update CURRENT_TIMESTAMP	Yes	0000-00-00 00:00:00		ON UPDATE CURRENT_TIMESTAMP	Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Fulltext](#)

[Print](#)
[Move columns](#)
[Normalize](#)

[Add](#) 1 column(s) after UpdationDate [Go](#)

[Indexes](#)

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	4	A	No	

Create an index on 1 column(s) [Go](#)

Issue Book Details Table from Database

Server: localhost:3306 » Database: library » Table: tblissuedbookdetails

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	BookId	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 3	StudentID	varchar(150)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 4	IssuesDate	timestamp			Yes	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Change Drop More
<input type="checkbox"/> 5	ReturnDate	timestamp		on update CURRENT_TIMESTAMP	Yes	NULL		ON UPDATE CURRENT_TIMESTAMP	Change Drop More
<input type="checkbox"/> 6	RetrunStatus	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 7	fine	int			Yes	NULL			Change Drop More

☐ Check all
 With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Fulltext](#)

[Print](#)
[Move columns](#)
[Normalize](#)

[Add](#) 1 column(s) after fine [Go](#)

[Indexes](#)

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	8	A	No	

Create an index on 1 column(s) [Go](#)

Studetns from Database

Server: localhost:3306 » Database: library » Table: tblstudents

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Triggers](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int			No	None		AUTO_INCREMENT	Change Drop More
<input type="checkbox"/> 2	Studentid	varchar(100)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 3	FullName	varchar(120)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 4	EmailId	varchar(120)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 5	MobileNumber	char(11)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 6	Password	varchar(120)	latin1_swedish_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 7	Status	int			Yes	NULL			Change Drop More
<input type="checkbox"/> 8	RegDate	timestamp			Yes	CURRENT_TIMESTAMP		DEFAULT_GENERATED	Change Drop More
<input type="checkbox"/> 9	UpdationDate	timestamp		on update CURRENT_TIMESTAMP	Yes	NULL		ON UPDATE CURRENT_TIMESTAMP	Change Drop More

☐ Check all
 With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#) [Fulltext](#)

[Print](#)
[Move columns](#)
[Normalize](#)

[Add](#) 1 column(s) after UpdationDate [Go](#)

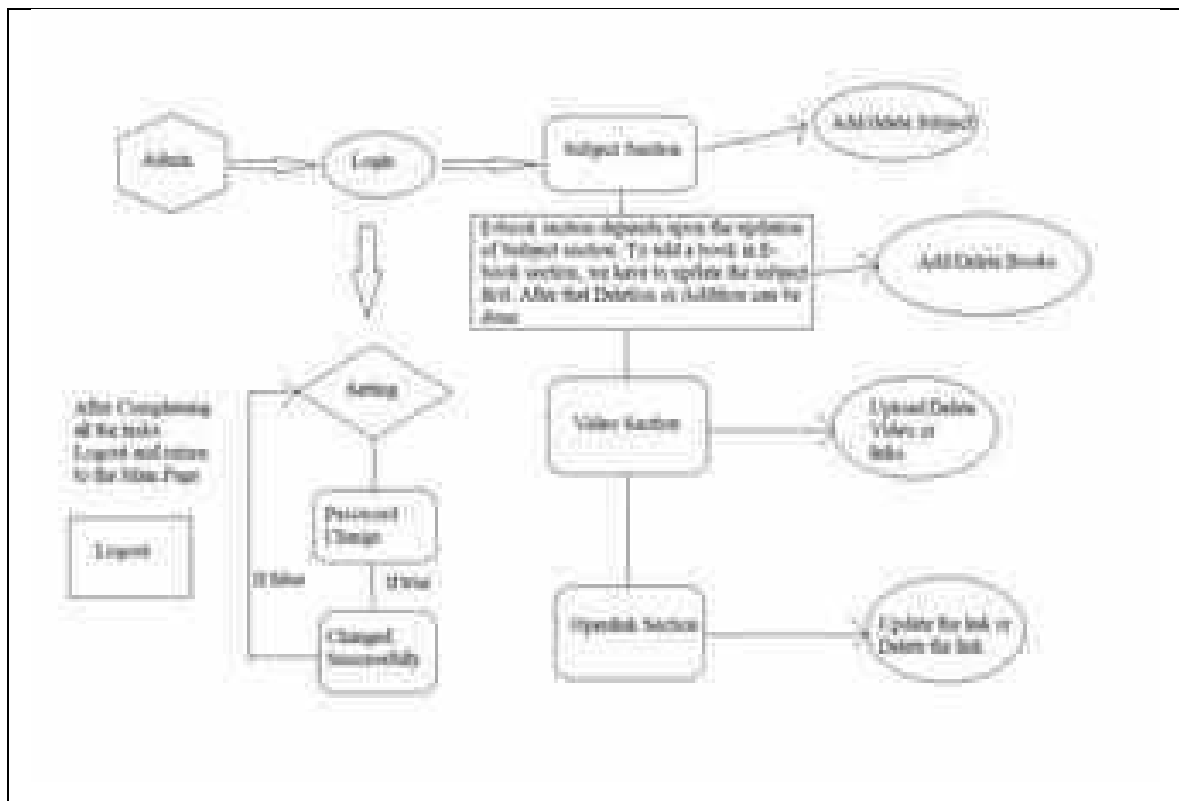
[Indexes](#)

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	2	A	No	
Edit Drop	Studentid	BTREE	Yes	No	Studentid	2	A	Yes	

Create an index on 1 column(s) [Go](#)

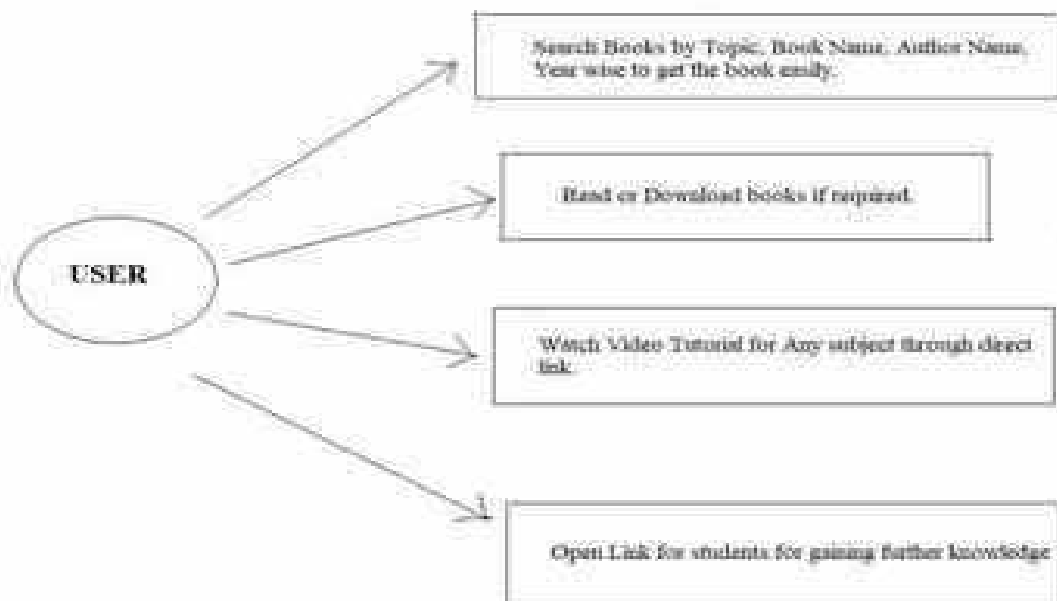
3.2 DATA FLOW DIAGRAMS

DATA FLOW DIAGRAM FOR ADMIN LOGIN



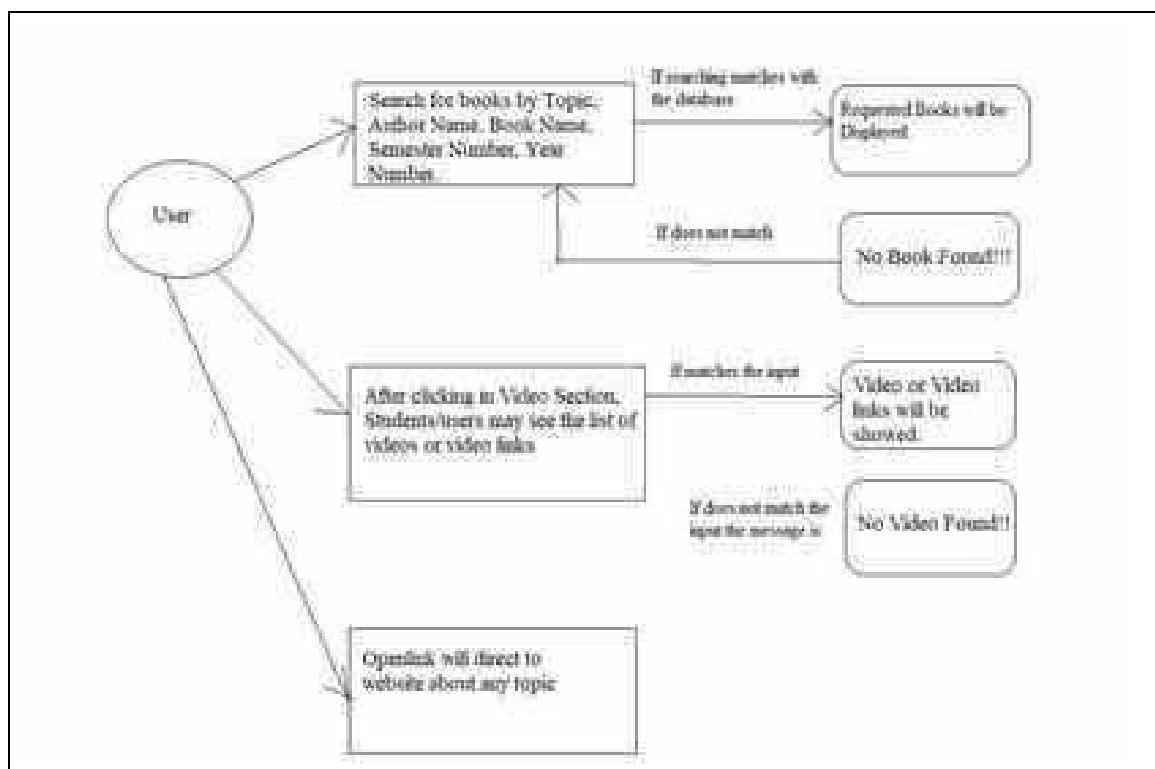
After entering to the home page of the website, Admin can choose the Admin Login option where they are asked to enter username & password, and if he/she is a valid user then a teacher login page will be displayed.

USE CAESE DIAGRAM FOR USER

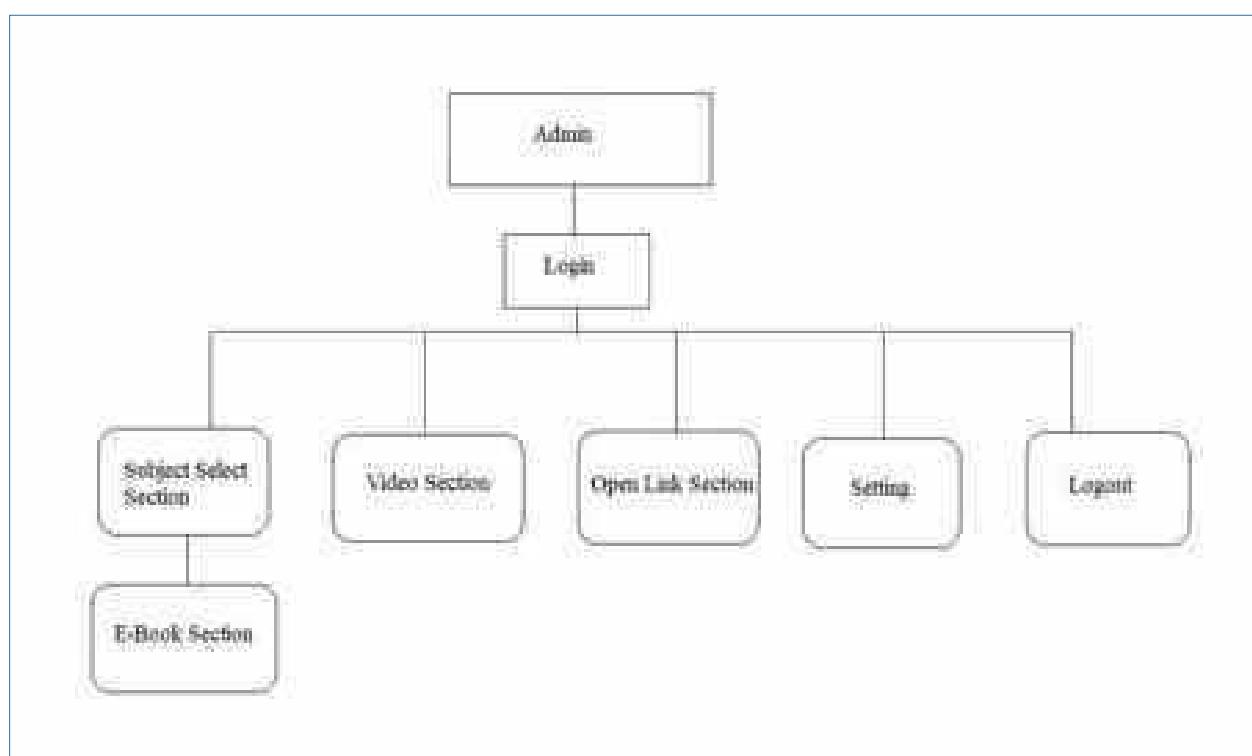


After entering to the home page of the website , student can choose the USER LOGIN option where they are asked to enter username & password , and if he/she is a valid user then a student login page will be displayed.

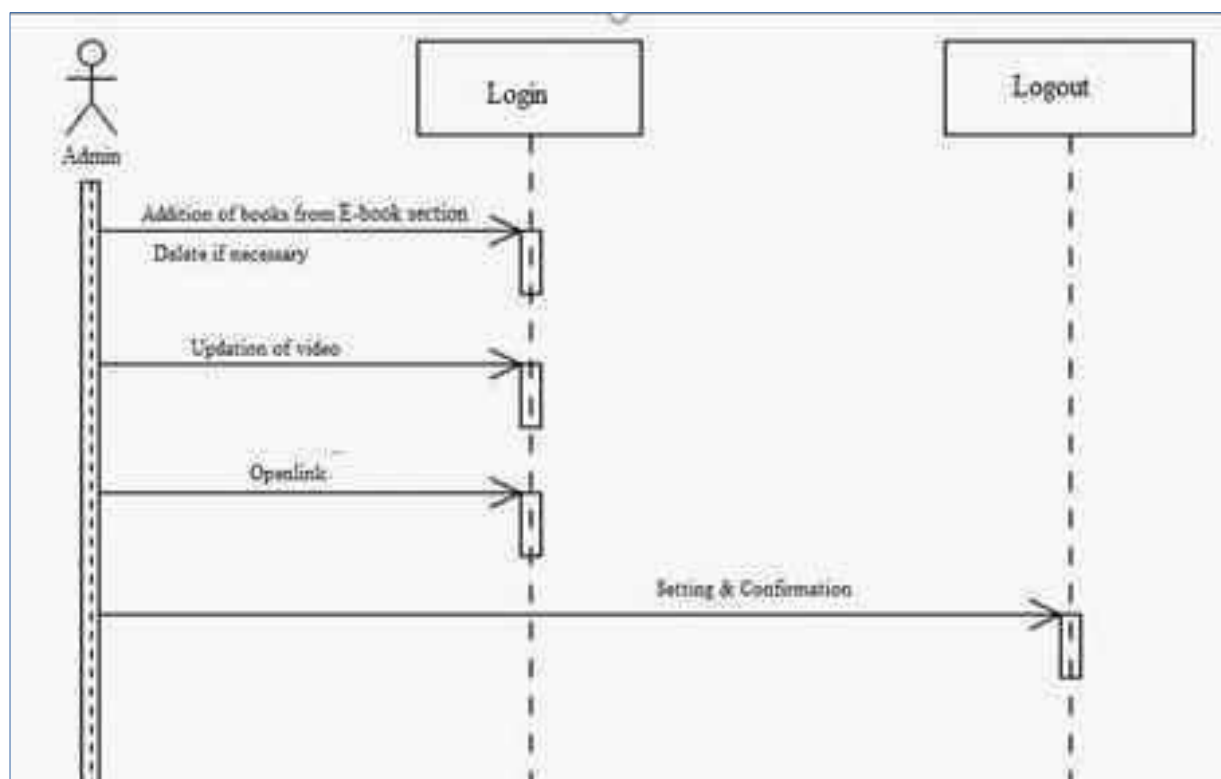
DATA FLOW DIAGRAM FOR USER



USER CASE DIAGRAM FOR ADMIN



SEQUENCE DIAGRAM



CHAPTER 4

SYSTEM IMPLEMENTATION

4.1 MODULE DESCRIPTION

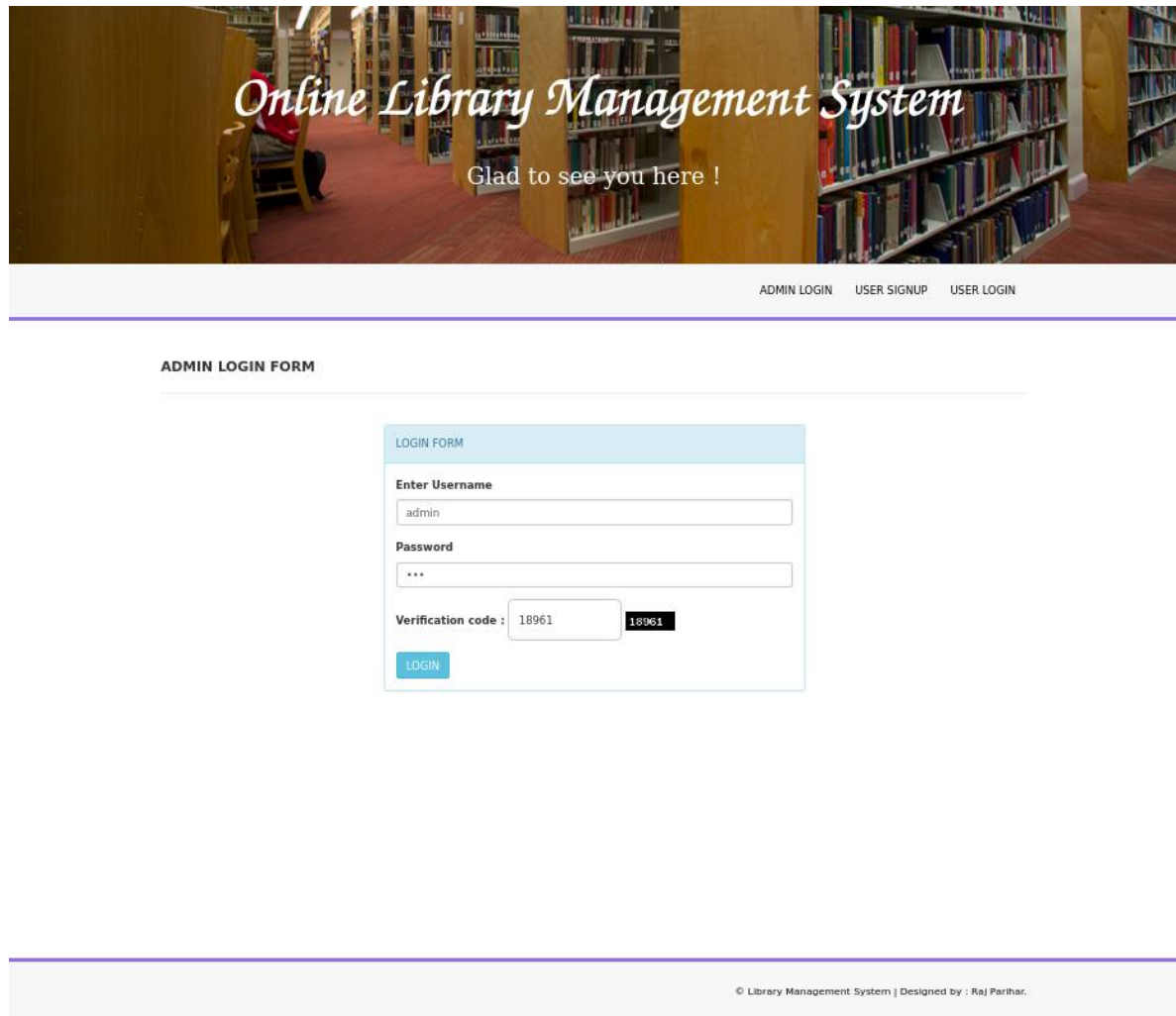
For Library Management System it is divided into the following Modules:

- **admin**
 - ➔ <http://localhost/lib-management/adminlogin.php>

- **Students (User)**
 - ➔ <http://localhost/lib-management/index.php>

4.2 SCREEN SHOTS

4.1 Screenshot for **login** (admin)



The screenshot displays the 'Online Library Management System' interface. The header features a library background with the title 'Online Library Management System' and the message 'Glad to see you here !'. Navigation links for 'ADMIN LOGIN', 'USER SIGNUP', and 'USER LOGIN' are present. The 'ADMIN LOGIN FORM' section contains a 'LOGIN FORM' box with fields for 'Enter Username' (admin), 'Password' (masked with ***), and 'Verification code' (18961). A 'LOGIN' button is at the bottom of the form. The footer includes the copyright notice '© Library Management System | Designed by : Raj Parihar.'.

Online Library Management System

Glad to see you here !

ADMIN LOGIN USER SIGNUP USER LOGIN

ADMIN LOGIN FORM

LOGIN FORM

Enter Username

admin

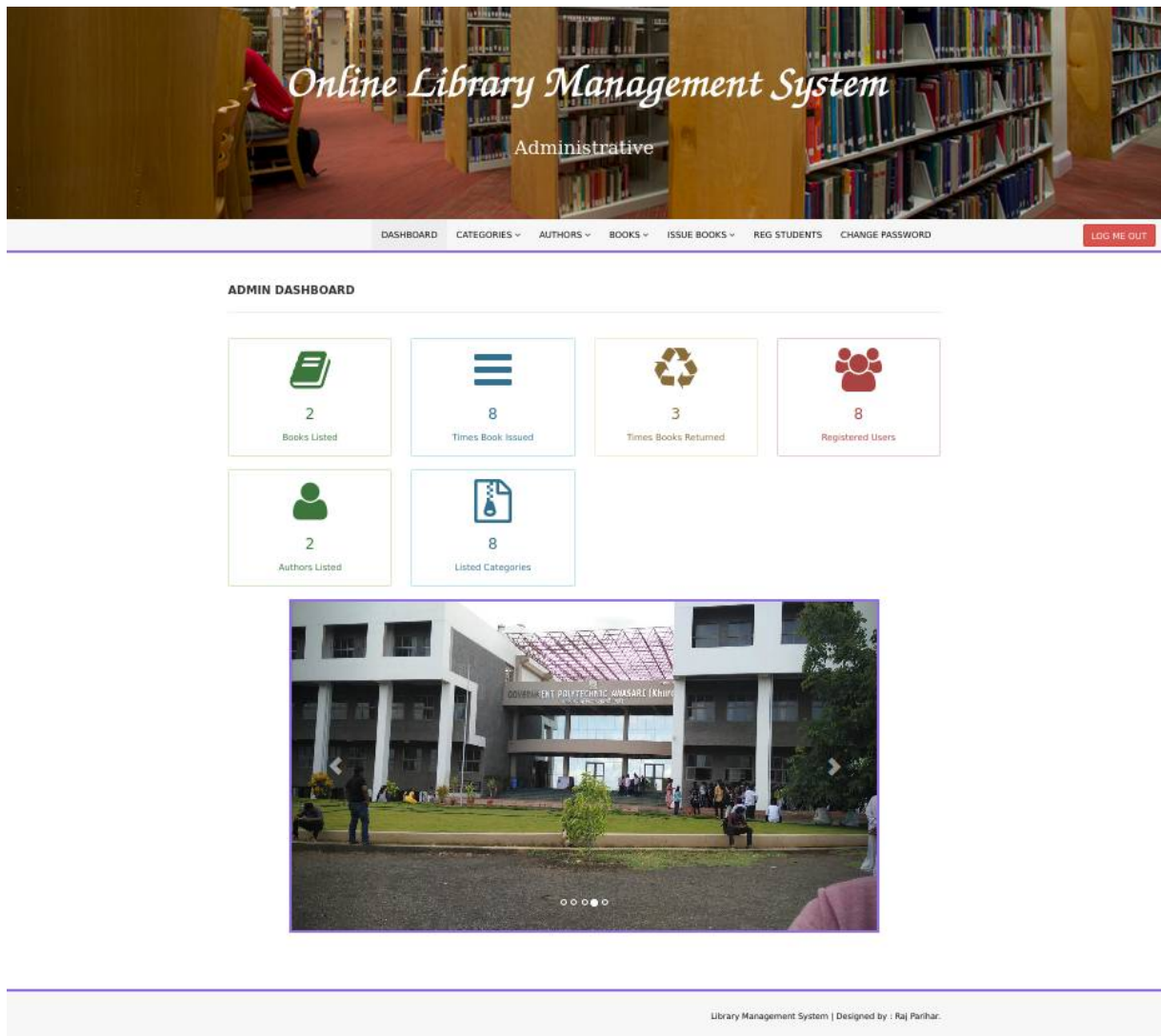
Password

Verification code : 18961 18961

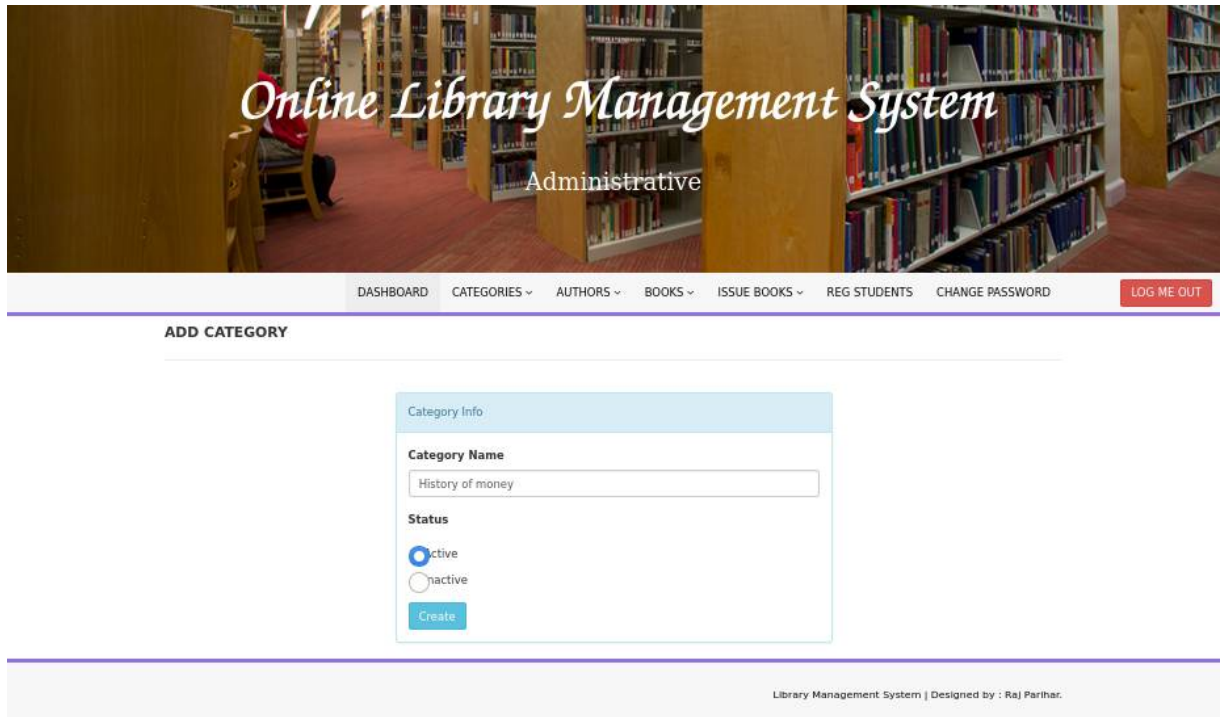
LOGIN

© Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for **Dashboard** (admin)



4.1 Screenshot for **add category** (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative'. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'ADD CATEGORY' and contains a form for adding a new category. The form has a light blue header 'Category Info' and includes a 'Category Name' field with the text 'History of money', a 'Status' section with radio buttons for 'active' (selected) and 'inactive', and a 'Create' button. The footer of the page reads 'Library Management System | Designed by : Raj Parihar'.

Online Library Management System
Administrative

DASHBOARD CATEGORIES AUTHORS BOOKS ISSUE BOOKS REG STUDENTS CHANGE PASSWORD LOG ME OUT

ADD CATEGORY

Category Info

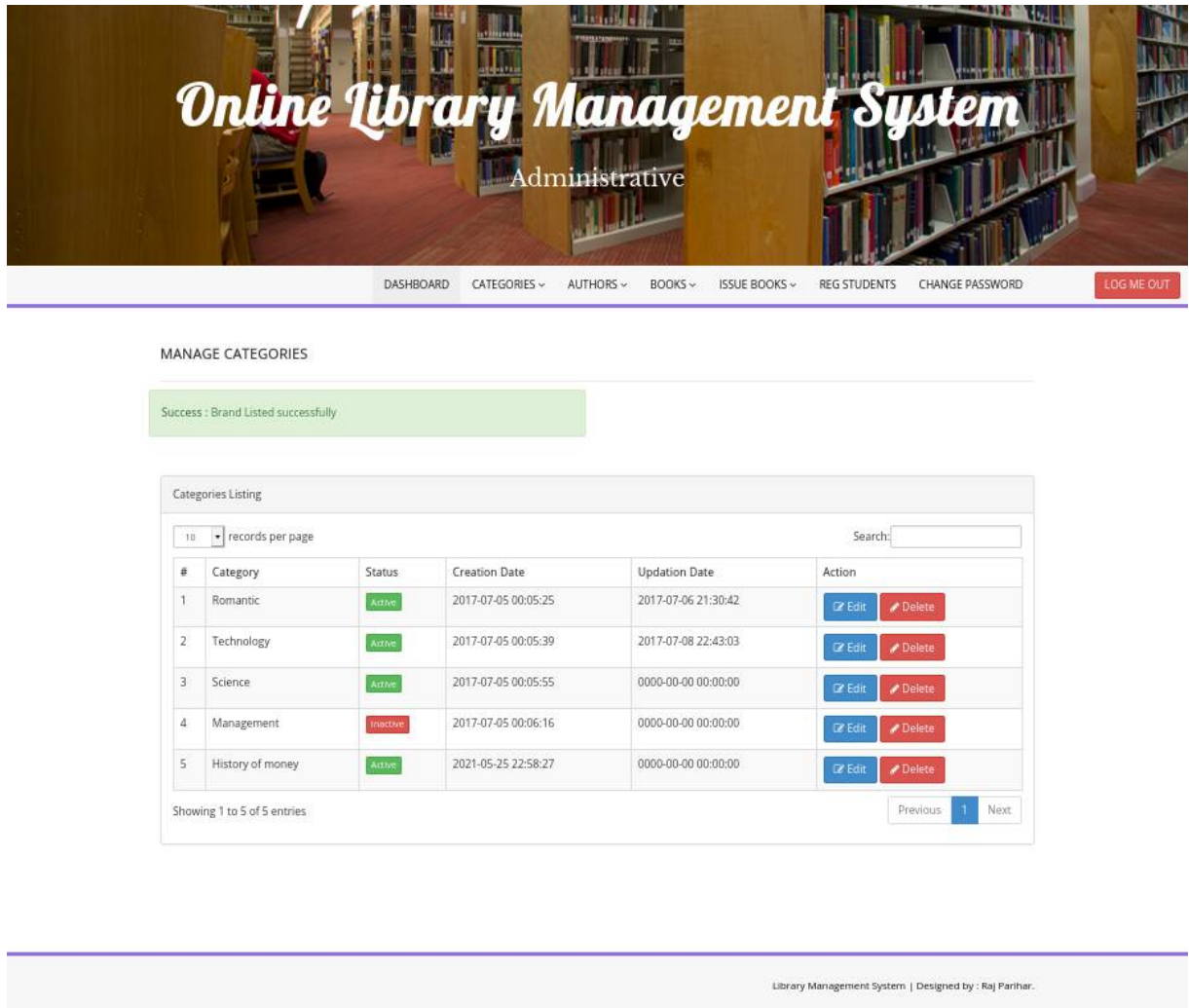
Category Name
History of money

Status
☒ active
☐ inactive

Create

Library Management System | Designed by : Raj Parihar

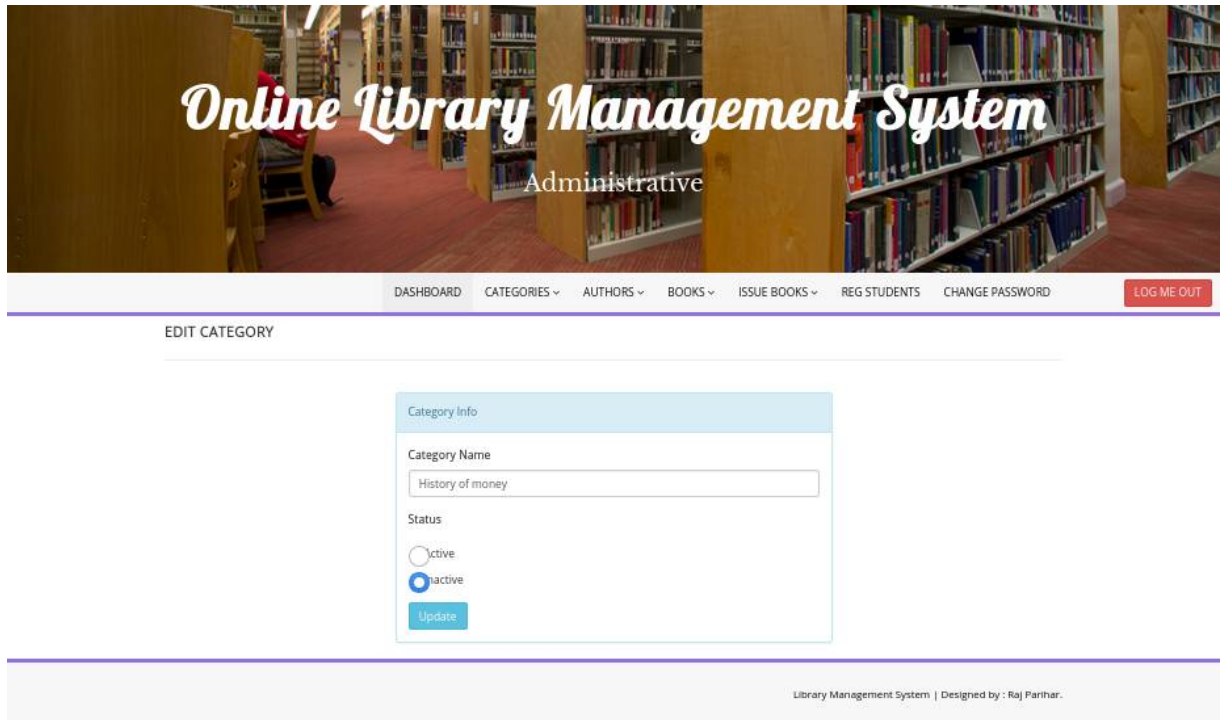
4.1 Screenshot for manage categories (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a navigation bar with links: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'MANAGE CATEGORIES' and shows a success message: 'Success : Brand Listed successfully'. Below this is a 'Categories Listing' table with columns for #, Category, Status, Creation Date, Updation Date, and Action. The table contains five entries: Romantic, Technology, Science, Management, and History of money. The 'Status' column shows 'Active' for the first three and 'Inactive' for the last two. The 'Action' column provides 'Edit' and 'Delete' links for each entry. The footer indicates 'Showing 1 to 5 of 5 entries' and includes pagination controls (Previous, 1, Next). The footer text reads: 'Library Management System | Designed by : Raj Parihar.'

#	Category	Status	Creation Date	Updation Date	Action
1	Romantic	Active	2017-07-05 00:05:25	2017-07-06 21:30:42	Edit Delete
2	Technology	Active	2017-07-05 00:05:39	2017-07-08 22:43:03	Edit Delete
3	Science	Active	2017-07-05 00:05:55	0000-00-00 00:00:00	Edit Delete
4	Management	Inactive	2017-07-05 00:06:16	0000-00-00 00:00:00	Edit Delete
5	History of money	Active	2021-05-25 22:58:27	0000-00-00 00:00:00	Edit Delete

4.1 Screenshot for **edit category** (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative' below it. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'EDIT CATEGORY' and contains a form for editing a category. The form has a light blue header 'Category Info' and includes a 'Category Name' field with the text 'History of money', a 'Status' section with radio buttons for 'Inactive' and 'Active' (where 'Active' is selected), and an 'Update' button. The footer of the page reads 'Library Management System | Designed by : Raj Parihar.'.

Online Library Management System
Administrative

DASHBOARD CATEGORIES ▼ AUTHORS ▼ BOOKS ▼ ISSUE BOOKS ▼ REG STUDENTS CHANGE PASSWORD LOG ME OUT

EDIT CATEGORY

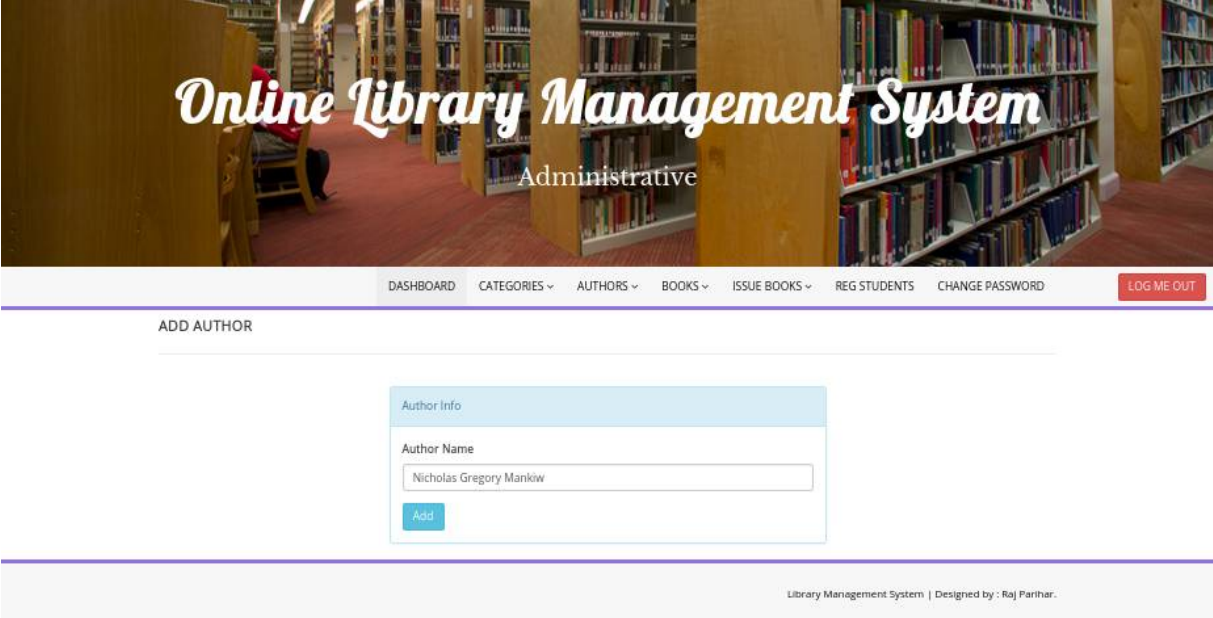
Category Info

Category Name
History of money

Status
☐ Inactive
☒ Active
Update

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for **add author** (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative' below it. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'ADD AUTHOR' and contains a form for adding a new author. The form has a section titled 'Author Info' with a label 'Author Name' and a text input field containing 'Nicholas Gregory Mankiw'. Below the input field is a blue 'Add' button. The footer of the page reads 'Library Management System | Designed by : Raj Parihar.'

Online Library Management System
Administrative

DASHBOARD CATEGORIES AUTHORS BOOKS ISSUE BOOKS REG STUDENTS CHANGE PASSWORD LOG ME OUT

ADD AUTHOR

Author Info

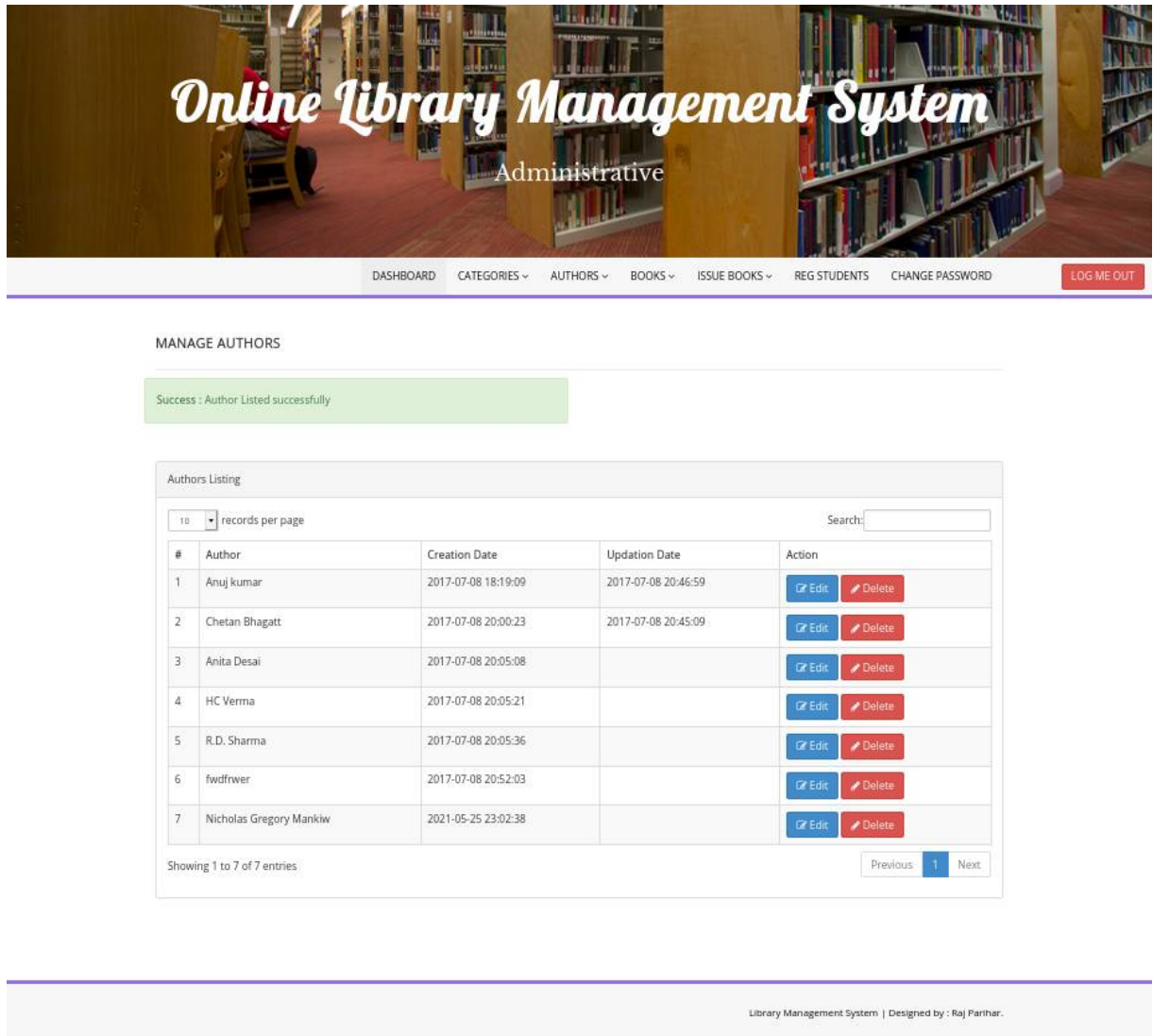
Author Name

Nicholas Gregory Mankiw

Add

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for manage authors (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a navigation bar with links: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'MANAGE AUTHORS' and shows a success message: 'Success : Author Listed successfully'. Below this is a table titled 'Authors Listing' with columns for #, Author, Creation Date, Updation Date, and Action. The table contains 7 entries. At the bottom, it shows 'Showing 1 to 7 of 7 entries' and pagination controls (Previous, 1, Next).

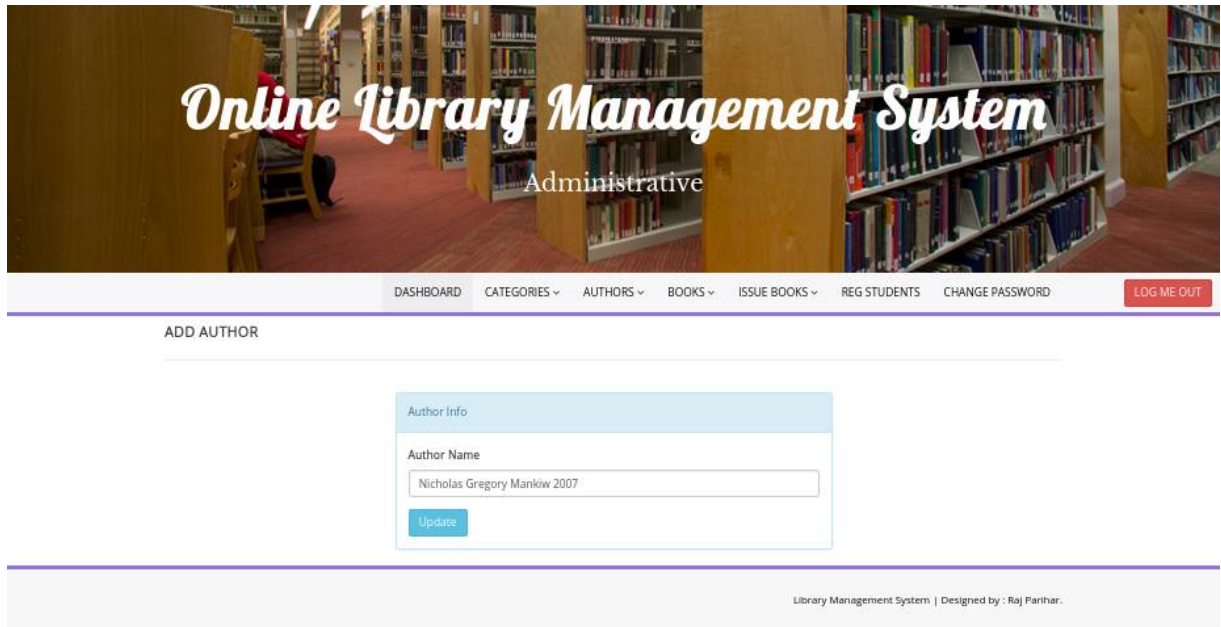
#	Author	Creation Date	Updation Date	Action
1	Anuj kumar	2017-07-08 18:19:09	2017-07-08 20:46:59	Edit Delete
2	Chetan Bhagatt	2017-07-08 20:00:23	2017-07-08 20:45:09	Edit Delete
3	Anita Desai	2017-07-08 20:05:08		Edit Delete
4	HC Verma	2017-07-08 20:05:21		Edit Delete
5	R.D. Sharma	2017-07-08 20:05:36		Edit Delete
6	fwdfwr	2017-07-08 20:52:03		Edit Delete
7	Nicholas Gregory Mankiw	2021-05-25 23:02:38		Edit Delete

Showing 1 to 7 of 7 entries

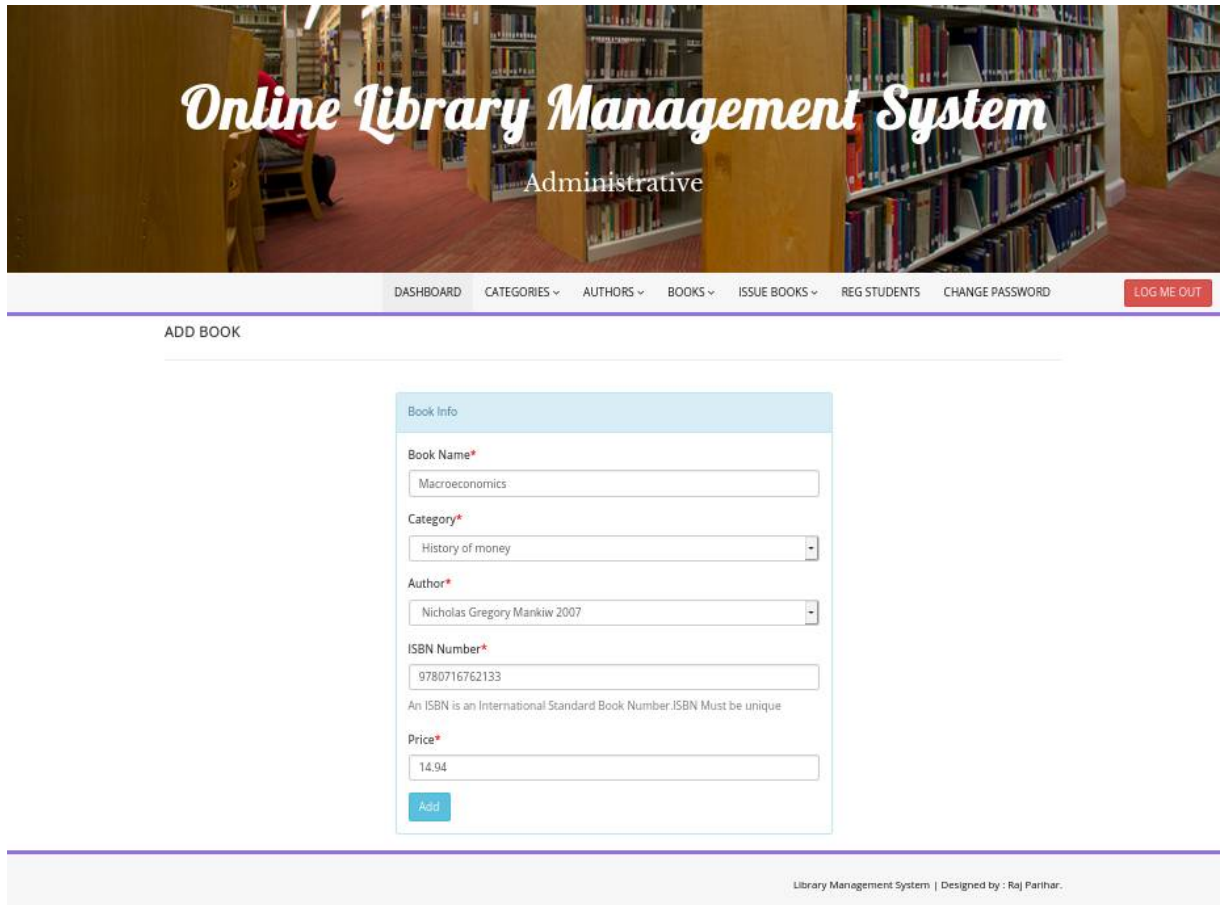
Previous 1 Next

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for **edit author** (admin)



4.1 Screenshot for **add book** (admin)



The screenshot displays the 'Online Library Management System' Administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative' below it. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'ADD BOOK' and contains a 'Book Info' form. The form fields are as follows:

Book Info	
Book Name*	<input type="text" value="Macroeconomics"/>
Category*	<input type="text" value="History of money"/>
Author*	<input type="text" value="Nicholas Gregory Mankiw 2007"/>
ISBN Number*	<input type="text" value="9780716762133"/>
An ISBN is an International Standard Book Number ISBN Must be unique	
Price*	<input type="text" value="14.94"/>
<input type="button" value="Add"/>	

The footer of the page reads: Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for **manage book** (admin)

The screenshot displays the 'Online Library Management System' Administrative interface. The header features a navigation bar with links: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'MANAGE BOOKS' and shows a success message: 'Success : Book Listed successfully'. Below this is a 'Books Listing' table with columns for #, Book Name, Category, Author, ISBN, Price, and Action. The table contains three entries. At the bottom, it shows 'Showing 1 to 3 of 3 entries' and pagination controls (Previous, 1, Next). The footer indicates 'Library Management System | Designed by : Raj Parihar.'.

Online Library Management System
Administrative

DASHBOARD CATEGORIES AUTHORS BOOKS ISSUE BOOKS REG STUDENTS CHANGE PASSWORD LOG ME OUT

MANAGE BOOKS

Success : Book Listed successfully

Books Listing


10 records per page Search:

#	Book Name	Category	Author	ISBN	Price	Action
1	PHP And MySql programming	Technology	Anuj kumar	222333	20	Edit Delete
2	physics	Science	HC Verma	1111	15	Edit Delete
3	Macroeconomics	History of money	Nicholas Gregory Mankiw 2007	716762137	14	Edit Delete

Showing 1 to 3 of 3 entries Previous 1 Next

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for **edit book** (admin)



The screenshot displays the 'Online Library Management System' Administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative' below it. A navigation bar includes links: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. Below the navigation bar, the 'ADD BOOK' section is active, showing a 'Book Info' form. The form contains the following fields and values:

Book Info	
Book Name*	Macroeconomics
Category*	History of money
Author*	Nicholas Gregory Mankiw 2007
ISBN Number*	716762137
An ISBN is an International Standard Book Number ISBN Must be unique	
Price in USD*	20
<button>Update</button>	

The footer of the page reads: Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for issue a new book (admin)

The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative'. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'ISSUE A NEW BOOK' and contains a form with the following fields: 'Srtudent id*' (containing '2'), 'Rajkumar' (author name), 'ISBN Number or Book Title*' (containing '0716762137'), and a dropdown menu for 'Macroeconomics'. An 'Issue Book' button is at the bottom of the form. The footer states 'Library Management System | Designed by : Raj Parihar.'

Online Library Management System
Administrative

DASHBOARD CATEGORIES ▼ AUTHORS ▼ BOOKS ▼ ISSUE BOOKS ▼ REG STUDENTS CHANGE PASSWORD LOG ME OUT

ISSUE A NEW BOOK

Issue a New Book

Srtudent id*
2

Rajkumar

ISBN Number or Book Title*
0716762137

Macroeconomics

Issue Book

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for manage issued books (admin)

The screenshot displays the 'Online Library Management System' Administrative interface. The header features a navigation bar with links: DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'MANAGE ISSUED BOOKS' and includes a success message: 'Success : Book issued successfully'. Below this is a table titled 'Issued Books' with columns for #, Student Name, Book Name, ISBN, Issued Date, Return Date, and Action. The table contains three entries. At the bottom of the table, it says 'Showing 1 to 3 of 3 entries' and has pagination controls for 'Previous', '1', and 'Next'. The footer of the page reads 'Library Management System | Designed by : Raj Parihar.'

Online Library Management System
Administrative

DASHBOARD CATEGORIES AUTHORS BOOKS ISSUE BOOKS REG STUDENTS CHANGE PASSWORD LOG ME OUT

MANAGE ISSUED BOOKS

Success : Book issued successfully

Issued Books

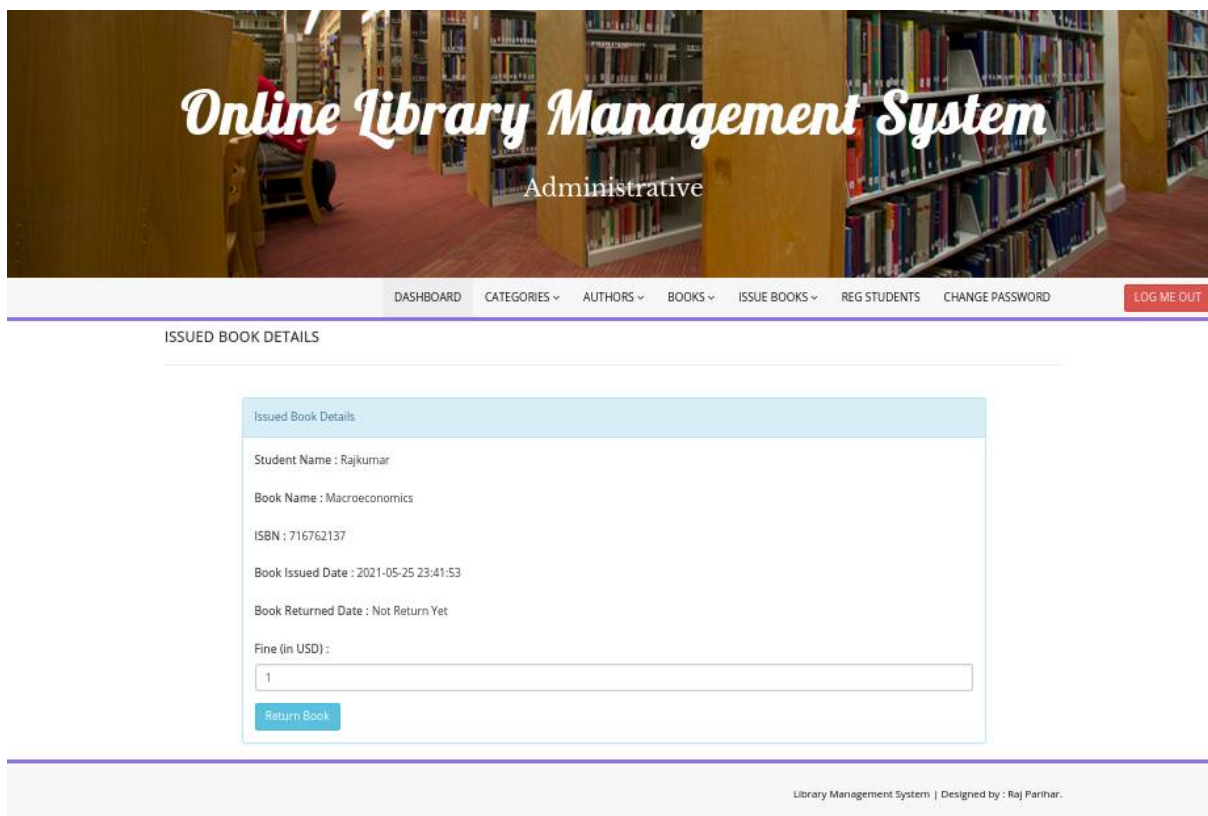
10 records per page Search:

#	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Rajkumar	Macroeconomics	716762137	2021-05-25 23:41:53	Not Return Yet	Edit
2	Rajkumar	physics	1111	2021-05-18 22:08:32	Not Return Yet	Edit
3	Prem Kumar	physics	1111	2021-05-18 22:06:19	Not Return Yet	Edit

Showing 1 to 3 of 3 entries Previous 1 Next

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for view issued book details (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative'. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'ISSUED BOOK DETAILS' and contains a form with the following fields:

Issued Book Details	
Student Name :	Rajkumar
Book Name :	Macroeconomics
ISBN :	716762137
Book Issued Date :	2021-05-25 23:41:53
Book Returned Date :	Not Return Yet
Fine (in USD) :	<input type="text" value="1"/>
<input type="button" value="Return Book"/>	

The footer of the page reads: Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for manage registred students (admin)

The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative' below it. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button.

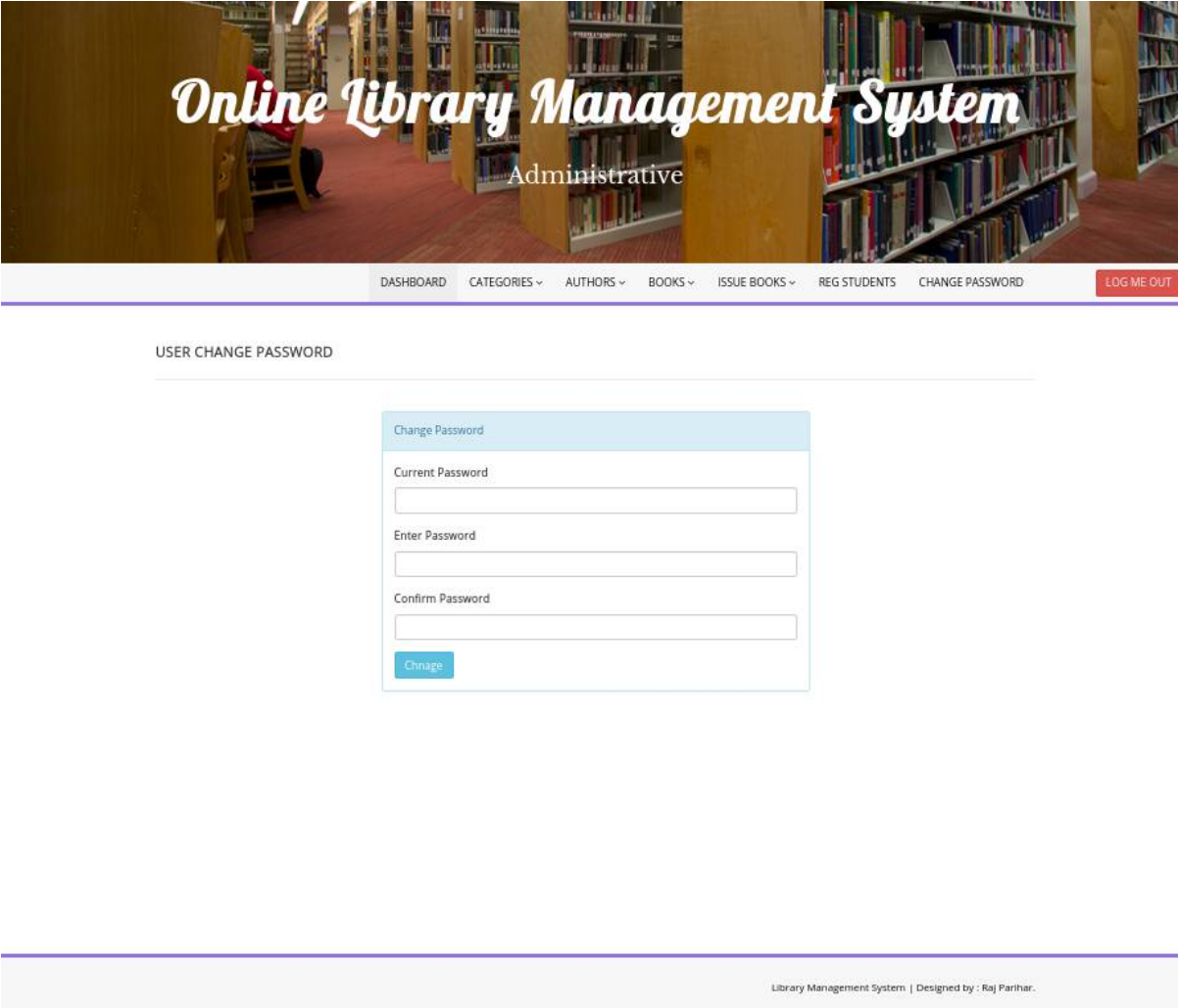
The main content area is titled 'MANAGE REG STUDENTS'. It contains a section for 'Reg Students' with a search bar and a table listing registered students. The table has columns for #, Student ID, Student Name, Email id, Mobile Number, Reg Date, Status, and Action. Two students are listed: Prem Kumar (Blocked) and Rajkumar (Active). The 'Action' column contains buttons to toggle the status (Active/Inactive).

Below the table, it shows 'Showing 1 to 2 of 2 entries' and pagination controls (Previous, 1, Next).

The footer of the page reads: 'Library Management System | Designed by : Raj Parihar.'

#	Student ID	Student Name	Email id	Mobile Number	Reg Date	Status	Action
1	1	Prem Kumar	premi@gmail.com	9370597451	2020-01-07 23:37:29	Blocked	<button>Active</button>
2	2	Rajkumar	user@gmail.com	9876543210	2020-01-07 23:38:45	Active	<button>Inactive</button>

4.1 Screenshot for **change admin password** (admin)



The screenshot displays the 'Online Library Management System' administrative interface. The header features a library background with the title 'Online Library Management System' and the word 'Administrative' below it. A navigation bar includes links for DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD, and a LOG ME OUT button. The main content area is titled 'USER CHANGE PASSWORD' and contains a form with three password input fields labeled 'Current Password', 'Enter Password', and 'Confirm Password', followed by a 'Change' button. The footer indicates the system is designed by Raj Parihar.

Online Library Management System
Administrative

DASHBOARD CATEGORIES ▼ AUTHORS ▼ BOOKS ▼ ISSUE BOOKS ▼ REG STUDENTS CHANGE PASSWORD LOG ME OUT

USER CHANGE PASSWORD

Change Password

Current Password

Enter Password

Confirm Password

Change

Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for user signup (students)

The screenshot displays the 'Online Library Management System' interface. The header features a library background with the title 'Online Library Management System' and the message 'Glad to see you here !'. Navigation links for 'ADMIN LOGIN', 'USER SIGNUP', and 'USER LOGIN' are present. The 'USER SIGNUP' section contains a 'SIGNUP FORM' with the following fields: 'Enter Full Name' (Prem Kumar), 'Mobile Number' (9370597451), 'Enter Email' (premkumar@gmail.com) with a green confirmation message 'Email available for Registration.', 'Enter Password' (masked with ***), and 'Confirm Password' (masked with ***). A 'Verification code' field shows '60464' next to a CAPTCHA image. A red 'Register Now' button is at the bottom of the form. The footer states '© Library Management System | Designed by : Raj Parihar.'.

Online Library Management System

Glad to see you here !

ADMIN LOGIN USER SIGNUP USER LOGIN

USER SIGNUP

SIGNUP FORM

Enter Full Name

Prem Kumar

Mobile Number :

9370597451

Enter Email

premkumar@gmail.com

Email available for Registration.

Enter Password

Confirm Password

Verification code : 60464

60464

Register Now

© Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for user password recovery (students)

The screenshot displays the 'Online Library Management System' interface. The header features a library background with the title 'Online Library Management System' and the message 'Glad to see you here !'. Navigation links for 'ADMIN LOGIN', 'USER SIGNUP', and 'USER LOGIN' are present. The main section is titled 'USER PASSWORD RECOVERY' and contains a 'LOGIN FORM' with the following fields: 'Enter Reg Email id' (premi@gmail.com), 'Enter Reg Mobile No' (9370597451), 'Password' (masked with dots), and 'ConfirmPassword' (masked with dots). A 'Verification code' field shows 62661, with a CAPTCHA image displaying 62661. At the bottom of the form are 'Change Password' and 'Login' buttons. The footer contains the copyright notice: '© Library Management System | Designed by : Raj Parihar.'

Online Library Management System

Glad to see you here !

ADMIN LOGIN USER SIGNUP USER LOGIN

USER PASSWORD RECOVERY

LOGIN FORM

Enter Reg Email id
premi@gmail.com

Enter Reg Mobile No
9370597451

Password


ConfirmPassword

Verification code : 62661 62661

Change Password | Login

© Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for **user login** (students)



The screenshot displays the user login interface of an Online Library Management System. The header features a library background with the title "Online Library Management System" and a welcome message "Glad to see you here !". Navigation links for "ADMIN LOGIN", "USER SIGNUP", and "USER LOGIN" are present. The "USER LOGIN FORM" section contains a "LOGIN FORM" box with fields for "Enter Email id" (containing "prem@gmail.com"), "Password" (masked with "***"), and "Verification code" (containing "75530"). A "Forgot Password" link is also available. A "LOGIN" button and a "Not Register Yet" link are at the bottom of the form. The footer includes the copyright notice "© Library Management System | Designed by : Raj Parihar."

Online Library Management System

Glad to see you here !

ADMIN LOGIN USER SIGNUP USER LOGIN

USER LOGIN FORM

LOGIN FORM

Enter Email id

prem@gmail.com

Password

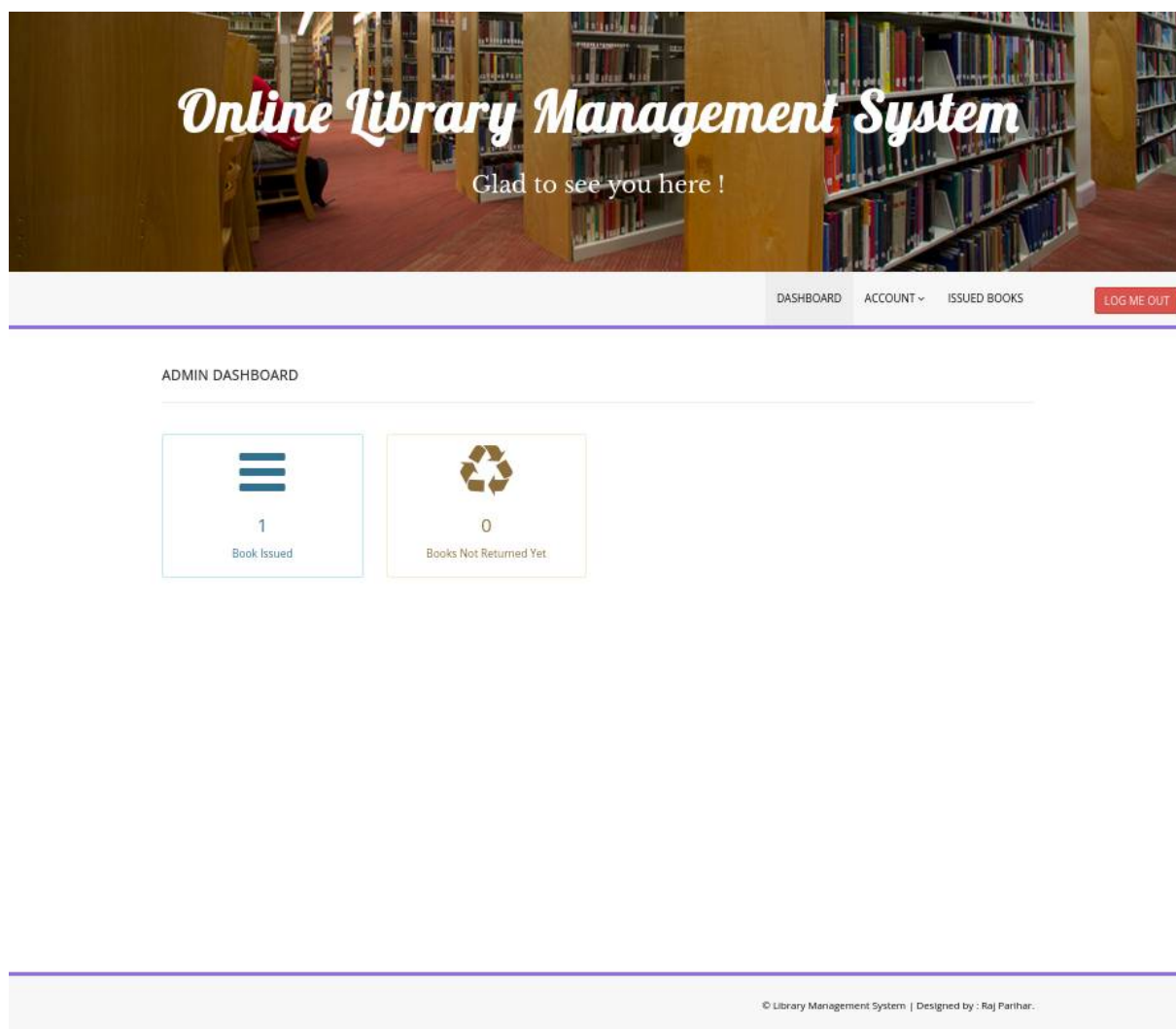
[Forgot Password](#)

Verification code : 75530

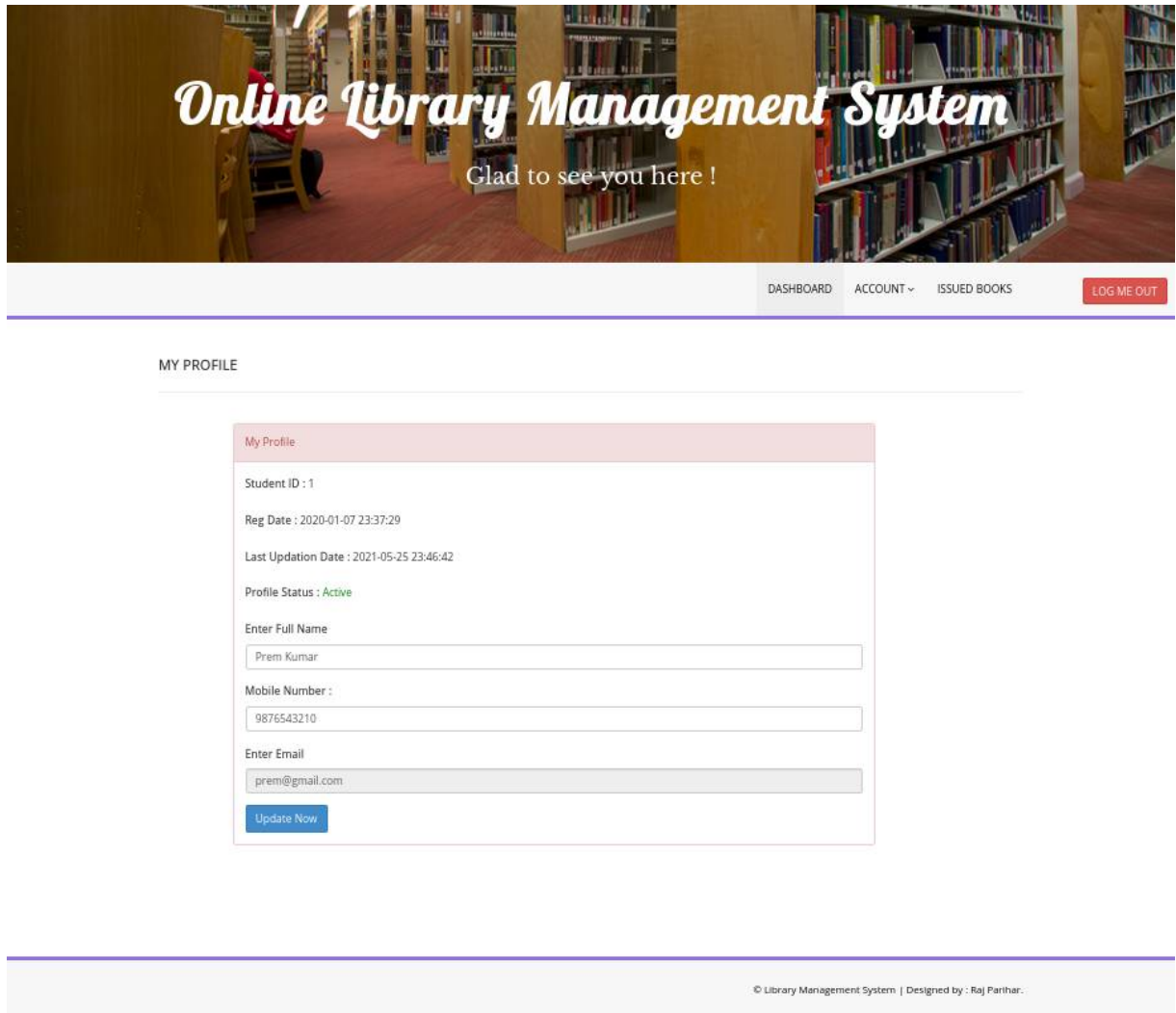
LOGIN | Not Register Yet

© Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for users dashboard (students)



4.1 Screenshot for my profile(students)



Online Library Management System
Glad to see you here !

DASHBOARD ACCOUNT ▾ ISSUED BOOKS [LOG ME OUT](#)

MY PROFILE

My Profile

Student ID : 1

Reg Date : 2020-01-07 23:37:29

Last Updation Date : 2021-05-25 23:46:42

Profile Status : Active

Enter Full Name

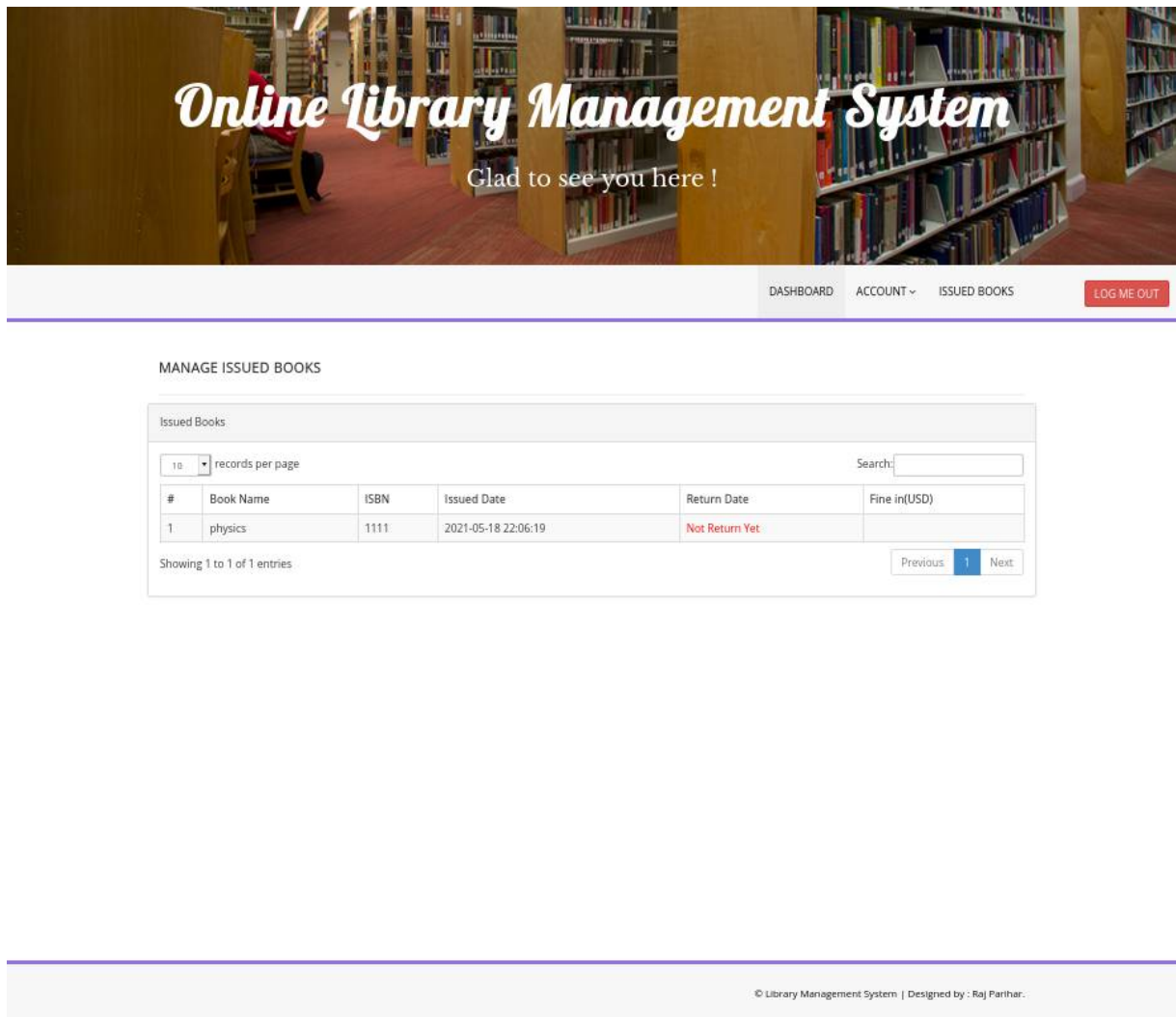
Mobile Number :

Enter Email

[Update Now](#)

© Library Management System | Designed by : Raj Parihar.

4.1 Screenshot for view issued books (students)

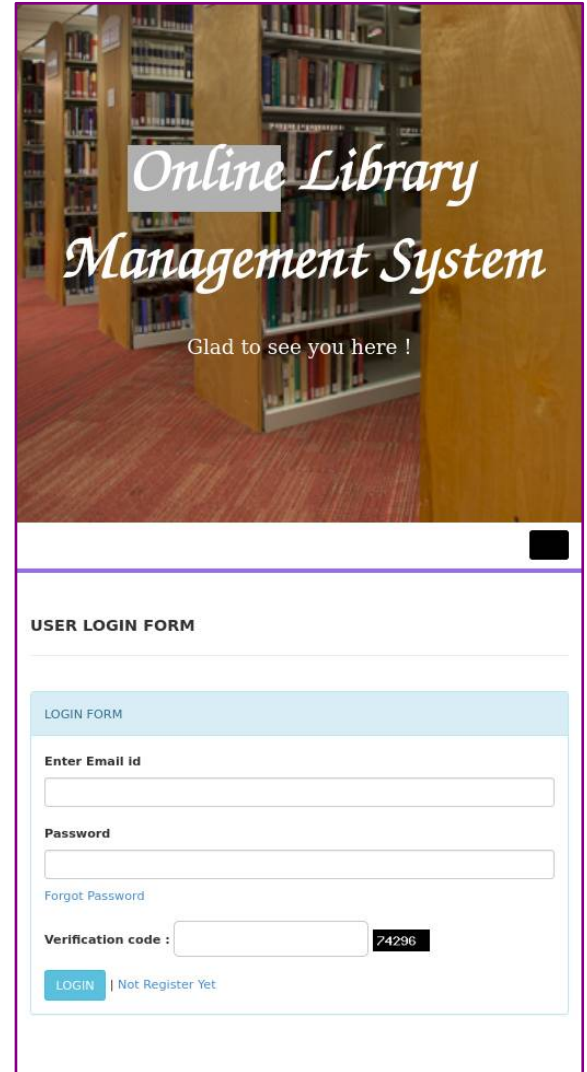
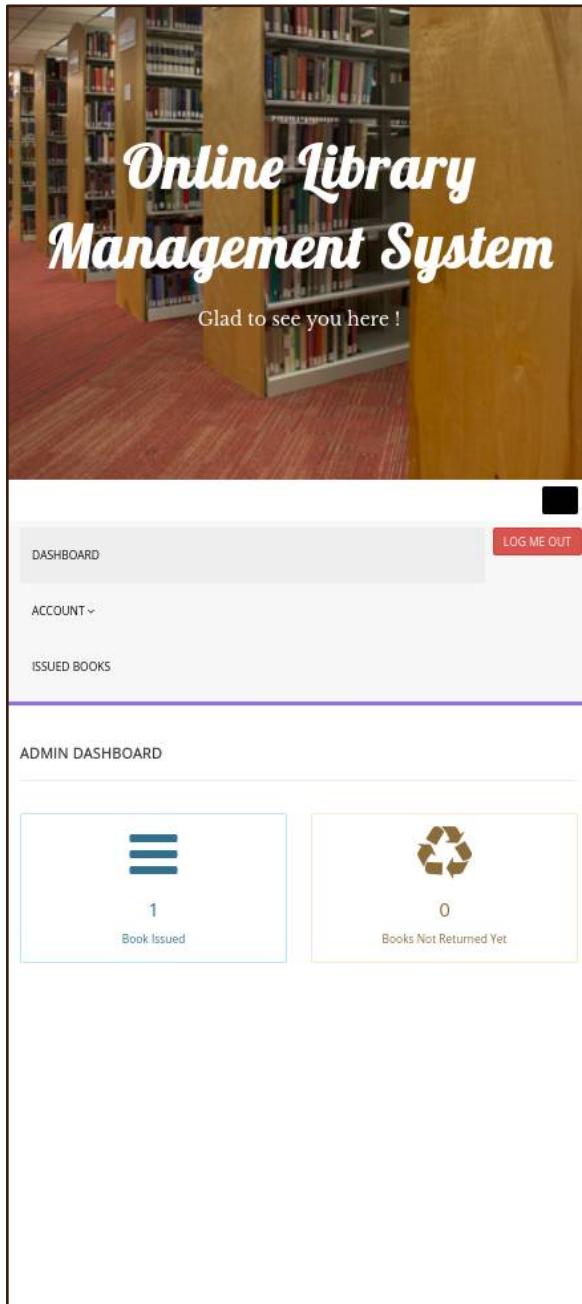


The screenshot displays the 'Online Library Management System' interface. The header features a library background with the title 'Online Library Management System' and the message 'Glad to see you here !'. The navigation bar includes links for 'DASHBOARD', 'ACCOUNT', 'ISSUED BOOKS', and a 'LOG ME OUT' button. The main content area is titled 'MANAGE ISSUED BOOKS' and contains a section for 'Issued Books'. This section includes a search bar, a dropdown for 'records per page' (set to 10), and a table with the following data:

#	Book Name	ISBN	Issued Date	Return Date	Fine in(USD)
1	physics	1111	2021-05-18 22:06:19	Not Return Yet	

Below the table, it states 'Showing 1 to 1 of 1 entries'. Navigation buttons for 'Previous', '1', and 'Next' are present. The footer contains the copyright notice: '© Library Management System | Designed by : Raj Parihar.'

4.1 Screenshot for mobile responsive view (students)



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 succesfully reviewed .In order to test a single module we need to provide a complete environment ie besides the module we would requir

- 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 libraryid, 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 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.

3. Test for teacher login module-

Test for teacher login form- This form is used for logg in of teacher .In this we enter the username and password if all these are correct teacher login page will open other wise if any of data is wrong it will get redirected back to the login page and again ask for username and password.

5.2 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

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