ONLINE LIBRARY MANAGEMENT WEBSITE

A Mini-Project Report Submitted For
Partial Fulfilment of the Requirements of the
Degree of Bachelor of Engineering

In

ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

(Semester IV)

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University of Mumbai

2022-2023

CERTIFICATE

This is to certify that the mini-project entitled "ONLINE LIBRARY MANAGEMENT WEBSITE" is a bonafide work of " PUNIT GAVALI (9712), MYRON GONSALVES (9714), ERIN FERNANDES (9709)" submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Artificial Intelligence and Data Science (Semester- IV).

(Name and Sign)

Guide/ Supervisor

Dr. Jagruti Save

(Head of the Department)

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(Principal)

Approval Sheet

Mini Project Report Approval for S.E. (Semester-IV)

This mini project entitled “ONLINE LIBRARY MANAGEMENT WEBSITE “ submitted by PUNIT GAVALI (9712) , ERIN FERNANDES (9709) , MYRON GONSALVES (9714) is approved for the degree of Bachelor of Engineering in Artificial Intelligence and Data Science (Semester IV)

Examiner 1.———————————

Examiner 2. ———————————

Date:27/04/23

Place: Bandra (W)

DECLARATION

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

Date:27/04/2023

PUNIT GAVALI (9712) ( )

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Date:27/04/2023

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ABSTRACT

Library management system is a project which aims in developing a computerized system to maintain all the daily work of library .This project has many features which are generally not available in normal library management systems like facility of user login and a facility of admin login .It also has a facility of admin login through which the admin can monitor the whole system . It has also a facility where student after logging in their accounts can see list of books issued and its issue date and return date.

Overall, this project of ours is being developed to help the students as well as staff of library to maintain the library in the best way possible and also reduce the human efforts.

TABLE OF CONTENT

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 issue
- Request column for librarian for providing new books
- Student login page where student can find books issued by him/her and date of return.
- A search column to search availability of books

1.2 BACKGROUND OF PROJECT

Library Management System is an application which refers to library systems which are generally small or medium in size. It is used by librarian to manage the library using a computerized system where he/she can record various transactions like issue of books, return of books, addition of new books, addition of new students etc.

Books and student maintenance modules are also included in this system which would 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 ,WINDOWS7, UBUNTU
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE
DATABASE	MY SQL

CHAPTER 2
SYSTEM ANALYSIS

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

2.1 SOFTWARE REQUIREMENT SPECIFICATION

2.1.1 GENERAL DESCRIPTION

PRODUCT DESCRIPTION:

Library Management System is a computerized system which helps user(librarian) to manage the library daily activity in electronic format. It reduces the risk of paper work such as file lost, file damaged and time consuming.

It can help user to manage the transaction or record more effectively and time-saving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

- File lost When computerized system is not implemented file is always lost because of human environment.Some times due to some human error there may be a loss of records.

- File damaged When a computerized system is not there file is always lost due to some accdent like spilling of water by some member on file accidentally.Besides some natural disaster like floods or fires may also damage the files.

- Difficult to search record

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

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

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

2.1.2 SYSTEM OBJECTIVES

- Improvement in control and performance

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

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

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.

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 acess to.

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

1.2 REGISTER NEW USER

Description of feature

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

Functional requirements

-System must be able to verify information

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

Admin Features

- Admin Dashboard
- Admin can add/update/ delete category
- Admin can add/update/ delete author
- Admin can add/update/ delete books
- Admin can issue a new book to student and also update the details when student return book
- Admin can search student by using their student ID
- Admin can also view student details
- Admin can change own password

Students-

- Student can register yourself and after registration they will get studentid
- After login student can view own dashboard.
- Student can update own profile.
- Student can view issued book and book return date-time.
- Student can also view the available books in the library.
- Student can also change own password.
- Student can also recover own password .

2.1.4 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system

2.1.4.1 SOFTWARE REQUIREMENTS

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

2.1.4.2 HARDWARE REQUIREMENTS

- Intel core i5 2nd generation is used as a processor because it is fast than other processors an provide reliable and stable and we can run our pc for longtime. By using this processor, we can keep on developing our project without any worries.
- Ram 1 GB is used as it will provide fast reading and writing capabilities and will in turn support in processing

2.2 EXISTING VS PROPOSED SYSTEM / DRAWBACKS OF EXISTING SYSTEM

i. Existing system does not have any facility of teachers login or student login where as proposed system will have a facility of student login as well as teacher's login

ii. Existing system does not have a facility of online reservation of books whereas proposed system has a facility of online reservation of books

iii. Existing system does not have any facility of online notice board where description of workshops happening in our college as well as nearby colleges is being provided.

iv. Existing system does not has any option of lectures notes uploaded by teachers whereas proposed system will have this facility

v. Existing system does not have any facility to generate student reports as well book issue reports whereas proposed system provides librarian with a tool to generate reports

vi. Existing system does not has any facility for book request and sugeestions where as in proposed system after logging in to their accounts student can request books as well as provide suggestions to improve library

2.3 SOFTWARE TOOLS USED

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

2.3.1 Front end

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

HTML- HTML or Hyper Text Markup Language is the main markup language for creating web pages and other information that can be displayed in a web browser.HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent empty elements and so are unpaired, for example <img>. The first tag in a pair is the start tag, and the second tag is the end tag (they are also called opening tags and closing tags). In between these tags web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page.HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

CSS- Cascading Style Sheets (CSS) is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML and XHTML, the language can be applied to any kind of XML document, including plain XML, SVG and XUL. CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation.CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification

of presentation characteristics, enable multiple pages to share formatting, and reduce complexity and repetition in the structural content (such as by allowing for table less web design).CSS can also allow the same markup page to be presented in different styles for different rendering methods, such as on-screen, in print, by voice (when read out by a speech-based browser or screen reader) and on Braille-based, tactile devices. It can also be used to allow the web page to display differently depending on the screen size or device on which it is being viewed. While the author of a document typically links that document to a CSS file, readers can use a different style sheet, perhaps one on their own computer, to override the one the author has specified. However if the author or the reader did not link the document to a specific style sheet the default style of the browser will be applied.CSS specifies a priority scheme to determine which style rules apply if more than one rule matches against a particular element. In this so-called cascade, priorities or weights are calculated and assigned to rules, so that the results are predictable.

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 code is interpreted by a web server 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 usedin 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.

CHAPTER 3

SYSTEM DESIGN

3.1 TABLE DESIGN

VARIOUS TABELS TO MAINTAIN INFORMATION

admin

Column	Type	Null	Default
id *(Primary)*	int(11)	No	
FullName	varchar(100)	Yes	*NULL*
AdminEmail	varchar(120)	Yes	*NULL*
UserName	varchar(100)	No	
Password	varchar(100)	No	
updationDate	timestamp	No	0000-00-00 00:00:00

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	1	A	No	

FIG 1 . ADMIN TABLE

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tblauthors

Column	Type	Null	Default
id *(Primary)*	int(11)	No	
AuthorName	varchar(159)	Yes	*NULL*
creationDate	timestamp	Yes	CURRENT_TIMESTAMP
UpdationDate	timestamp	Yes	*NULL*

Indexes

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

FIG 2 .AUTHOR TABLE

tblcategory

Column	Type	Null	Default
id *(Primary)*	int(11)	No	
CategoryName	varchar(150)	Yes	*NULL*
Status	int(1)	Yes	*NULL*
CreationDate	timestamp	Yes	CURRENT_TIMESTAMP
UpdationDate	timestamp	No	0000-00-00 00:00:00

Indexes

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

FIG 3.TABLE CATEGORY

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	id	int(11)			No	*None*		AUTO_INCREMENT
2	BookName	varchar(255)	latin1_swedish_ci		Yes	*NULL*		
3	CatId	int(11)			Yes	*NULL*		
4	AuthorId	int(11)			Yes	*NULL*		
5	ISBNNumber	varchar(25)	latin1_swedish_ci		Yes	*NULL*		
6	BookPrice	decimal(10,2)			Yes	*NULL*		
7	bookImage	varchar(250)	latin1_swedish_ci		No	*None*		
8	isIssued	int(1)			Yes	*NULL*		
9	RegDate	timestamp			Yes	current_timestamp()		
10	UpdationDate	timestamp			Yes	*NULL*		ON UPDATE CURRENT_TIMESTAMP()

Indexes

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

FIG 4.TABLE BOOKS

tblstudents

Column	Type	Null	Default
id *(Primary)*	int(11)	No	
StudentId	varchar(100)	Yes	*NULL*
FullName	varchar(120)	Yes	*NULL*
EmailId	varchar(120)	Yes	*NULL*
MobileNumber	char(11)	Yes	*NULL*
Password	varchar(120)	Yes	*NULL*
Status	int(1)	Yes	*NULL*
RegDate	timestamp	Yes	CURRENT_TIMESTAMP
UpdationDate	timestamp	Yes	*NULL*

Indexes

Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
PRIMARY	BTREE	Yes	No	id	7	A	No	
StudentId	BTREE	Yes	No	StudentId	7	A	Yes	

FIG 5.TABLE STUDENTS

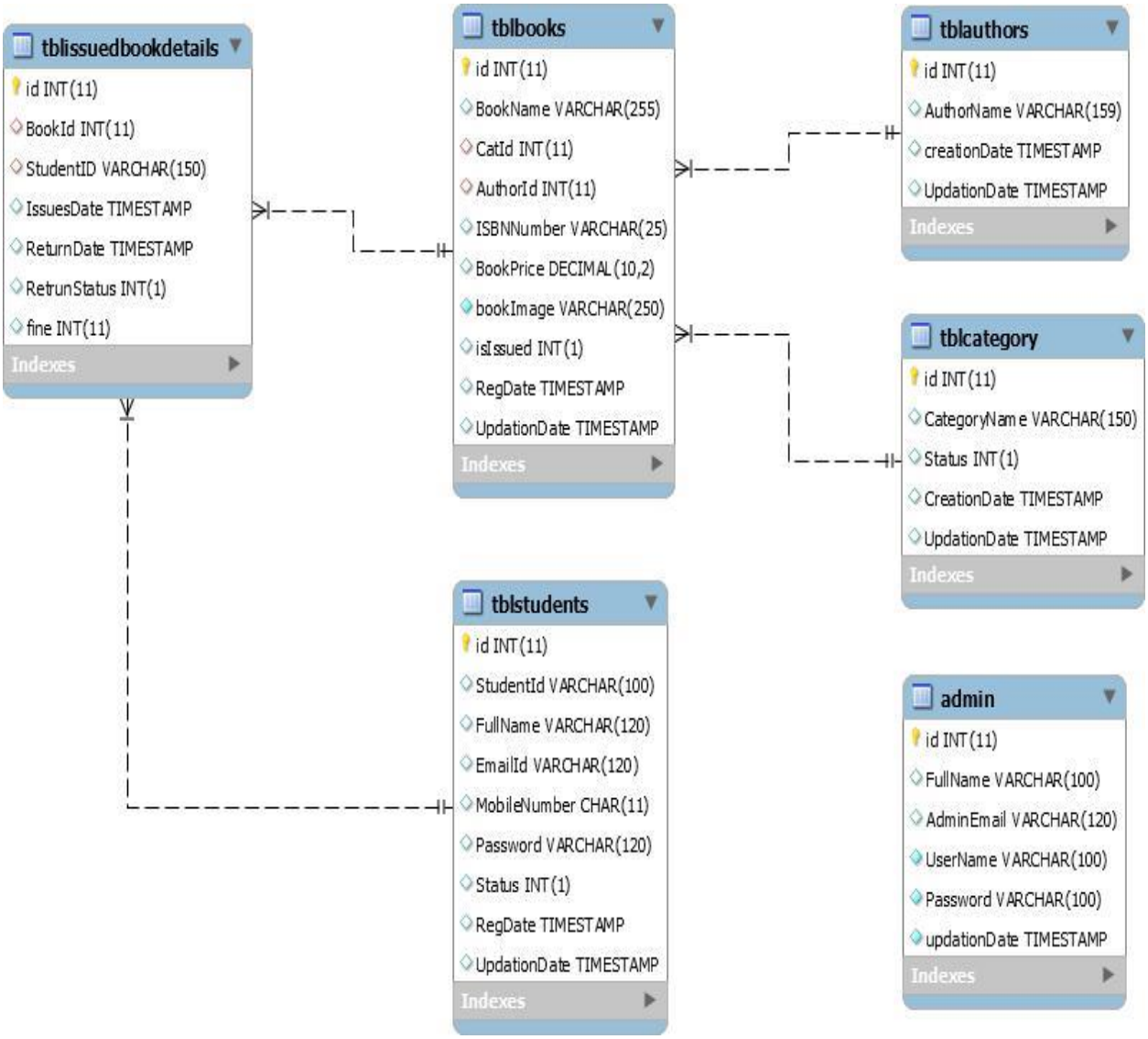


FIG 6 .Relationship between tables (Class Diagram)

Literature Review:

Title of Paper	Publication Year	Database used	Publisher/ Author	Research Gap	Advanatage
Library Management System	2020	database created by My SQL	Nishtha Singh1, Sejal Ayade2, Vikash Lakra3	2	library management system's goal is to deliver immediate and accurate information about any type of book, saving time and effort.
Library Management Systems – A Survey	2022	SQL based.	Dr .A. Radha Krishna a, Mrs . K. Sireesha b, V.N.T. Sravanthi c, P. Keerthana d, K. Satwik e, M. Chandhini Ram lakshmi f	1	LMS is designed in a user-friendly manner, so the admin can smoothly activate the system without expert advice.
Library Management System	2020	The programming language Active Server Page (ASP) is used to interface with the database.	Shanmugam a P Sasthri Ganeshan Ramalakshmi	2	To overcome the above-mentioned limitations of the physical library, we are implementing this new technology to promote digital reading habits for users and to advance the knowledge of the users in every aspect of the technology.
Designing Web-based Library Management System	2020	SQL server is exploiting as database.	Tsega Weldu Araya Ph.D. Students, School of Computer Science and Technology Northwestern Polytechnic University Xian, China	4	A Library Management System has been designed to automate, manage and look after the overall processing of a library, especially in ODL institutions.
Library Management System with topic modelling and it's adaptability to open and distance learning libraries	2019	Data Definition Language (DDL). DDL is used to create a database.	Babafemi Richard Adebayo	5	Library Management System provides many impacts on the activities of a library and facilitates the user in performing their daily task with convenience.

3.2 DATA FLOW DIAGRAMS

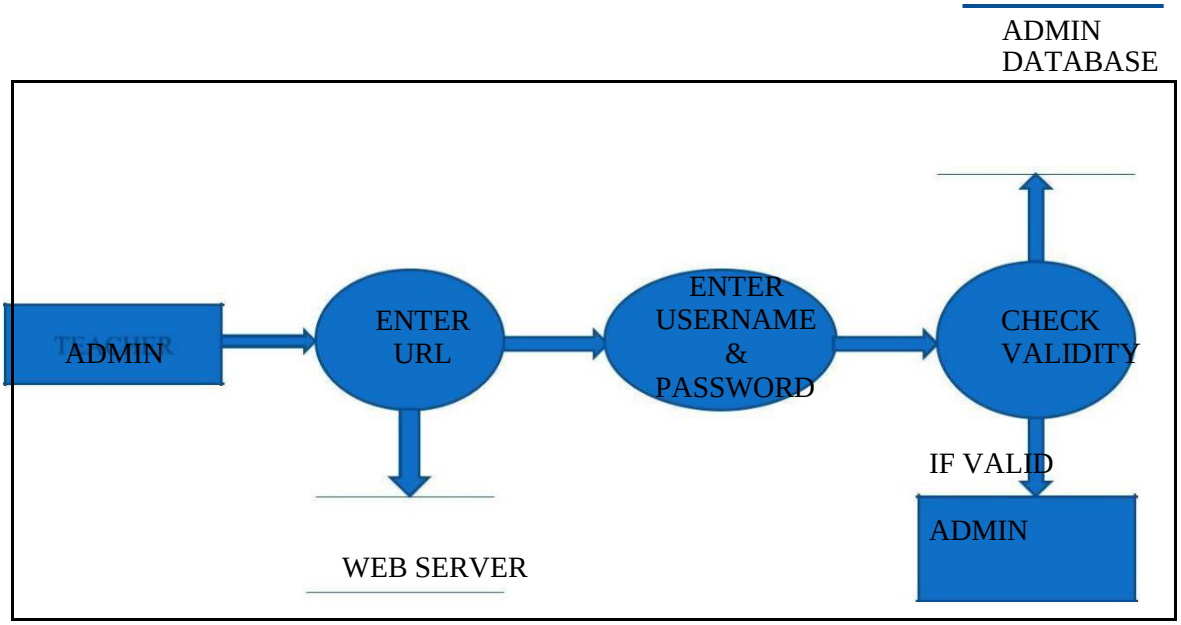


FIG 7.DATA FLOW DIAGRAM FOR ADMIN LOGIN

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.

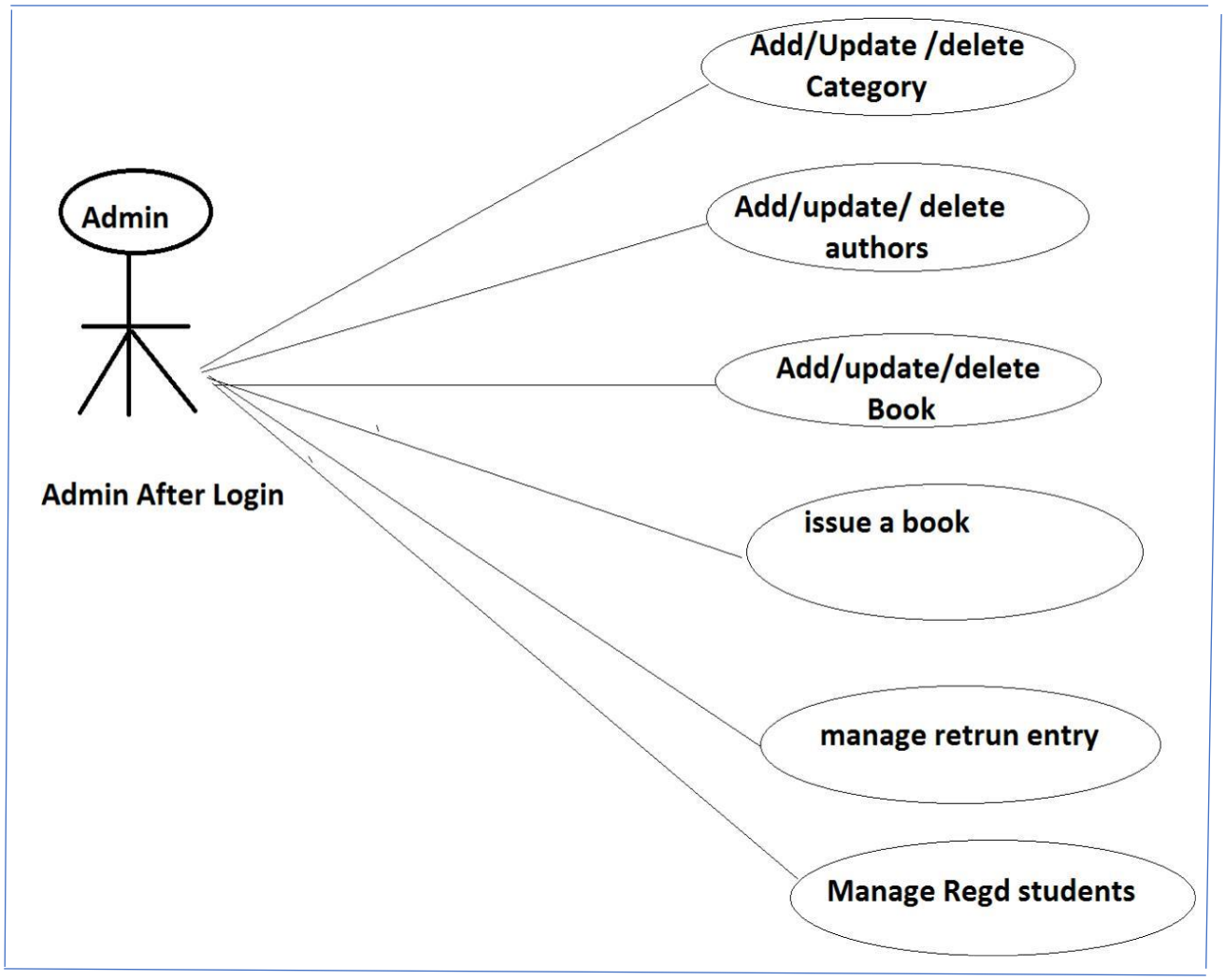


FIG 8.ADMIN DATAFLOW DIAGRAM

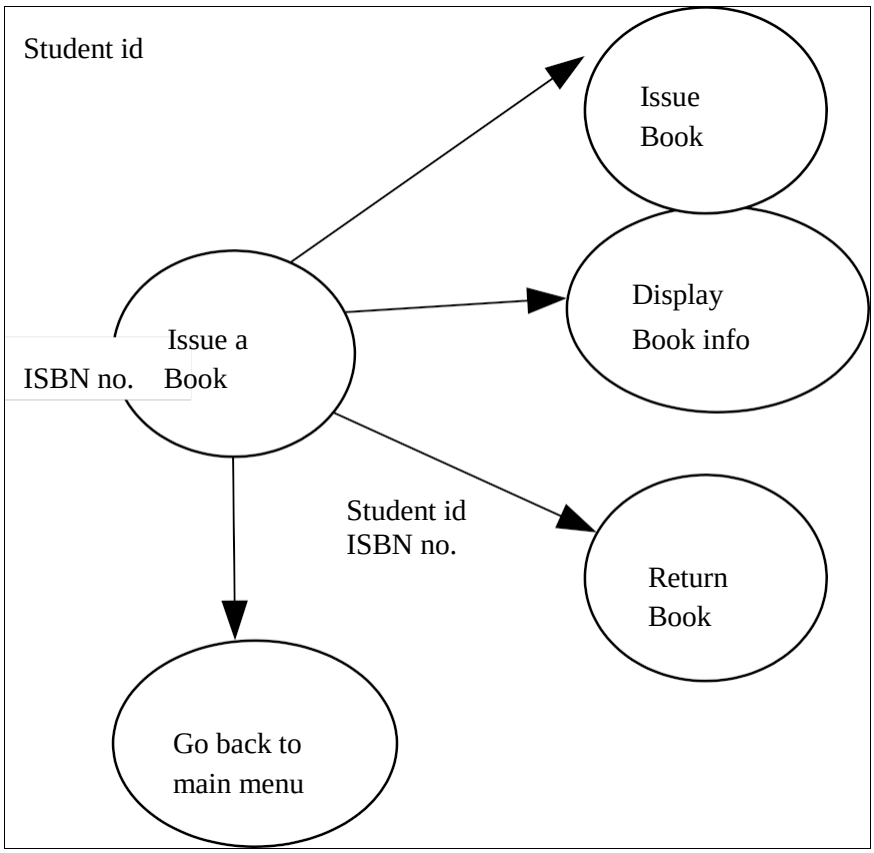


FIG 9.DATA FLOW DIAGRAM FOR ISSUING BOOK

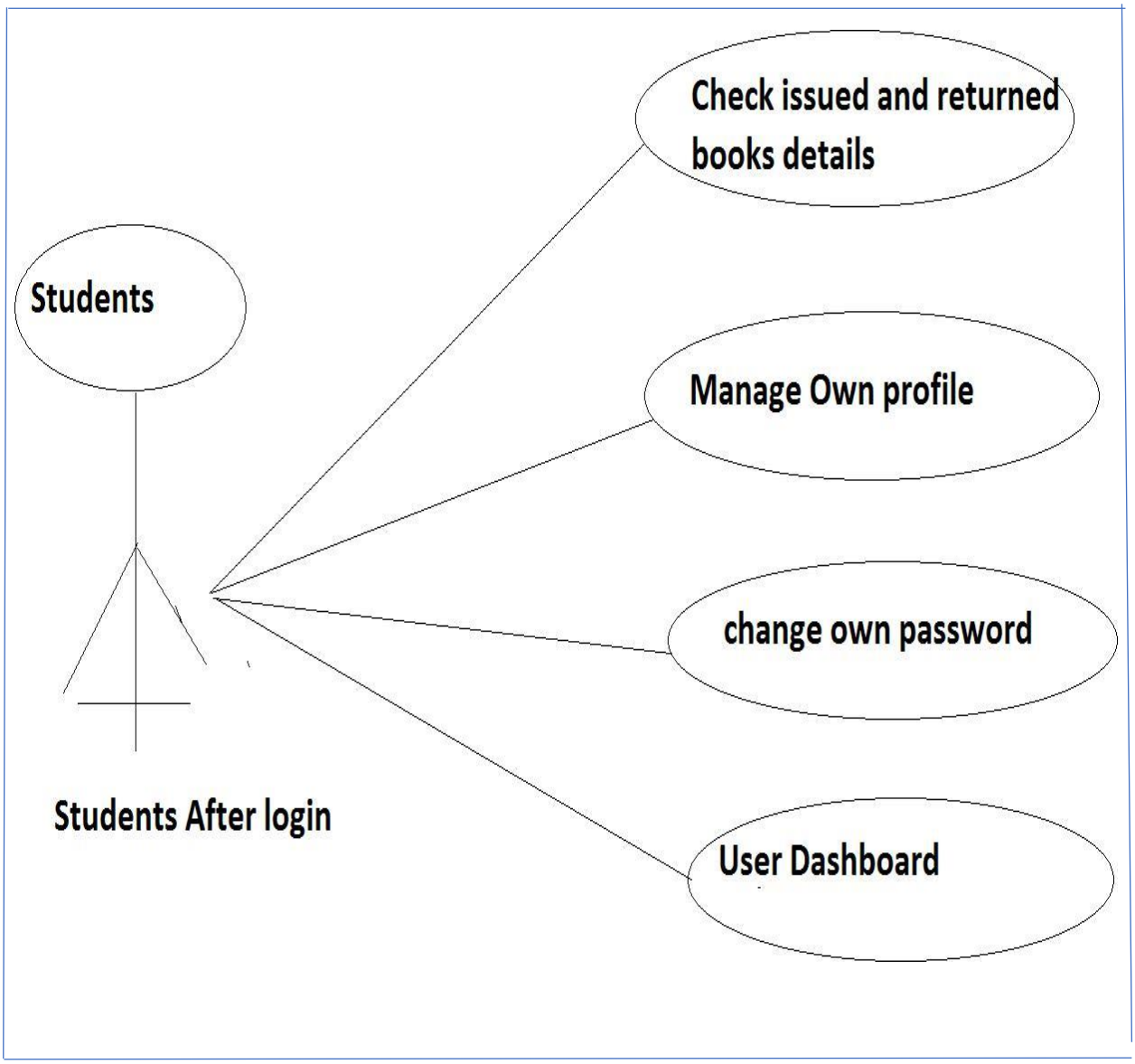


FIG 10.DATA FLOW DIAGRAM FOR STUDENTS

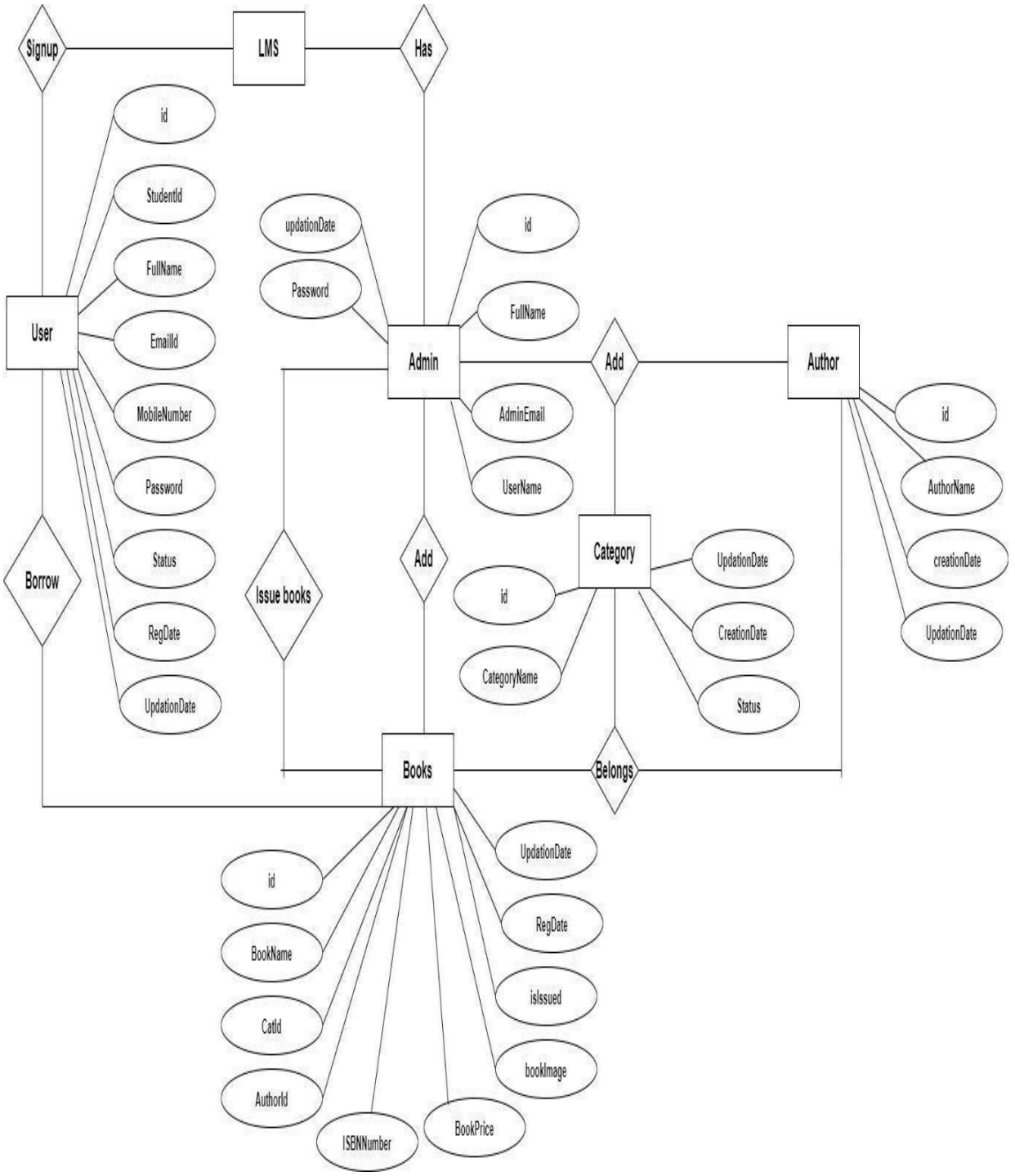
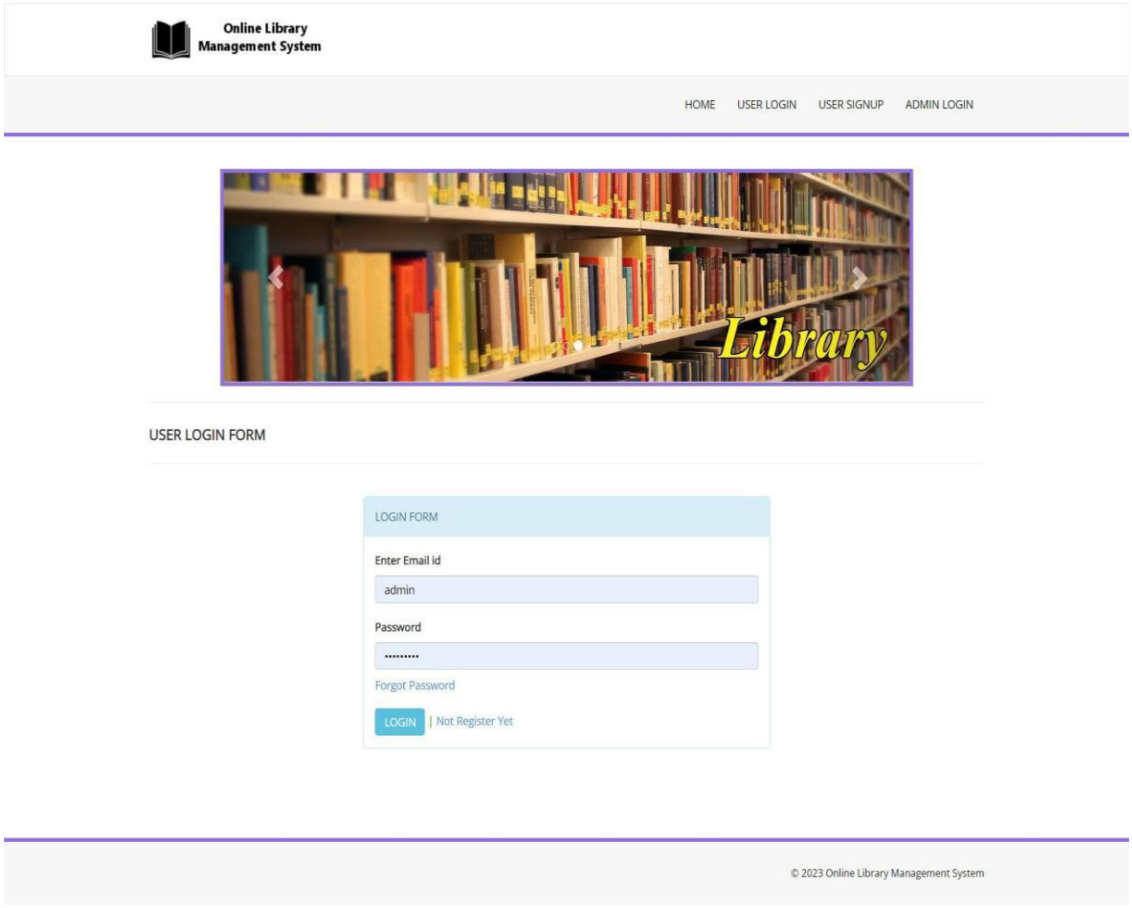


FIG 11.ENTITY RELATIONSHIP DIAGRAM

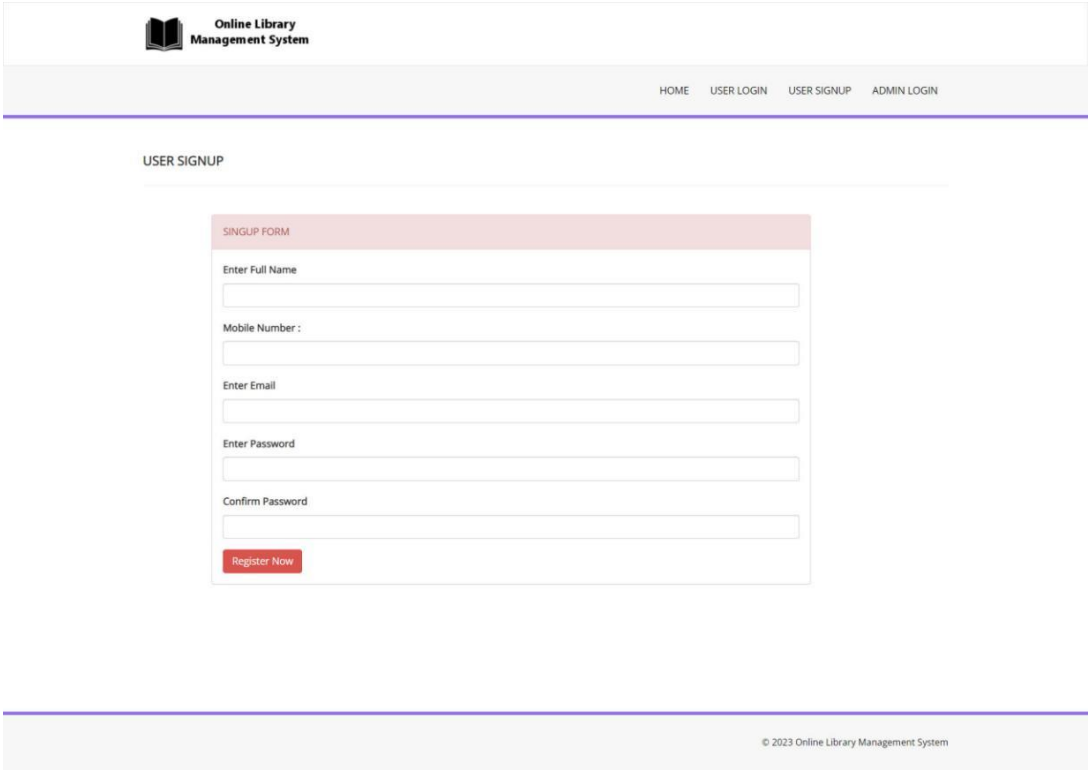
CHAPTER 4

SYSTEM IMPLEMENTATION

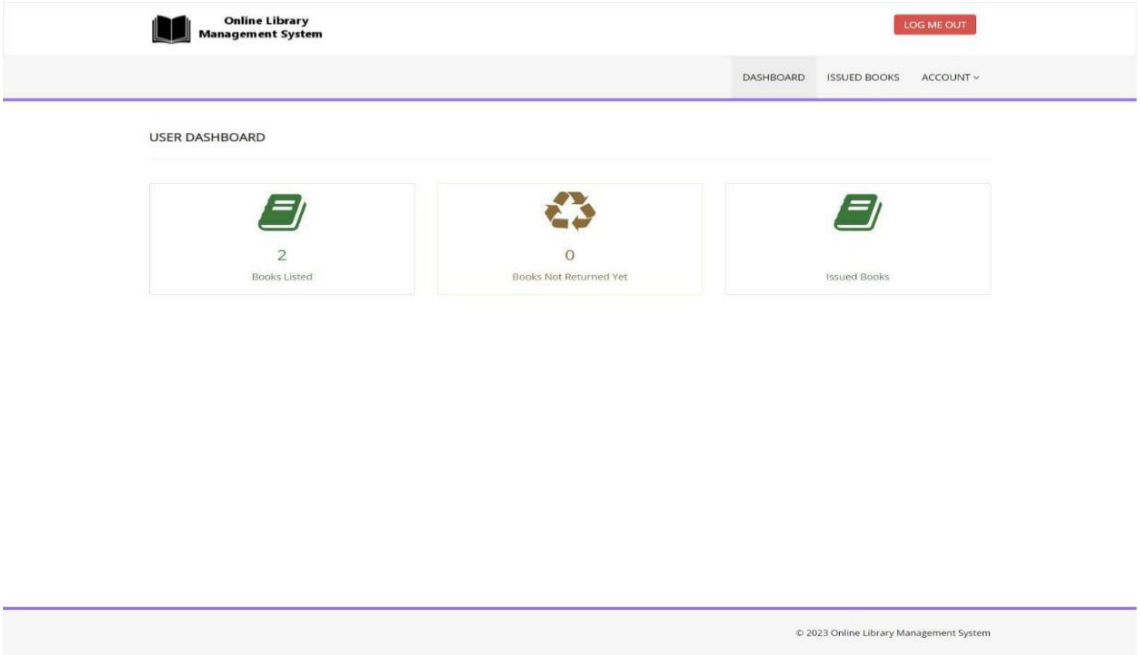
Home Page



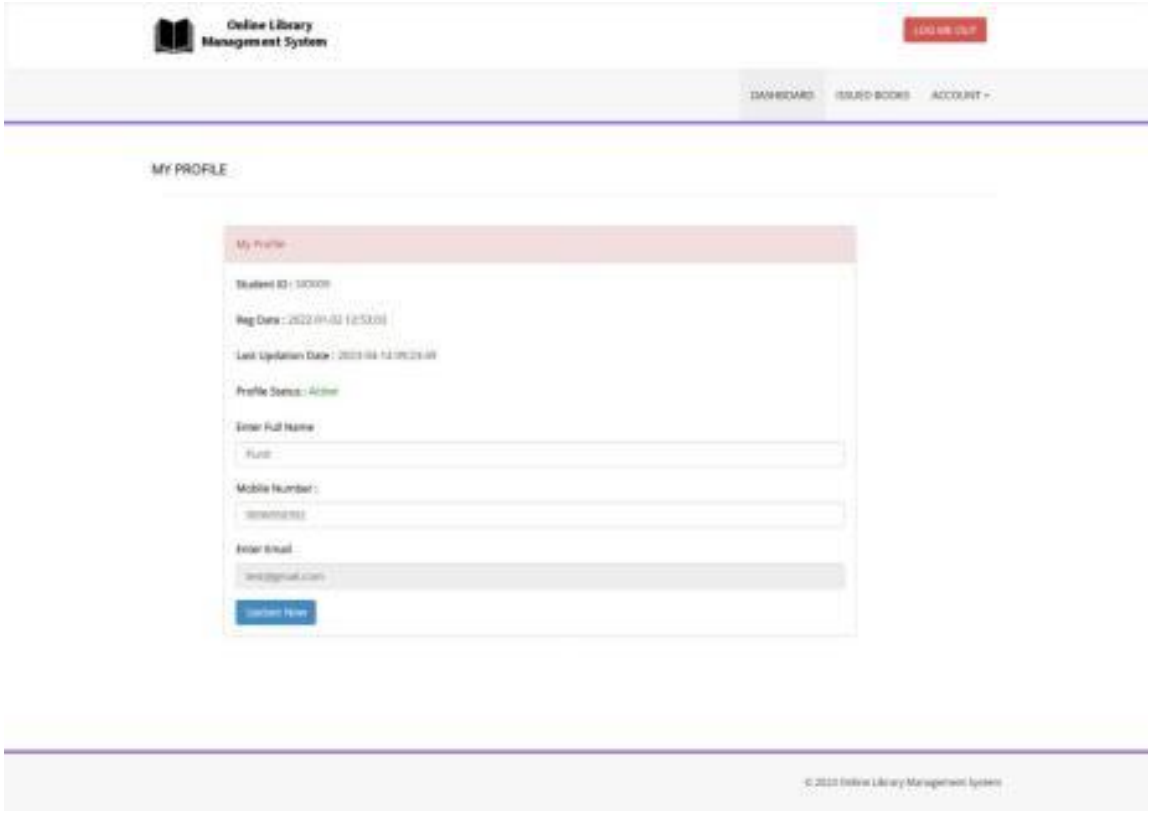
User Signup



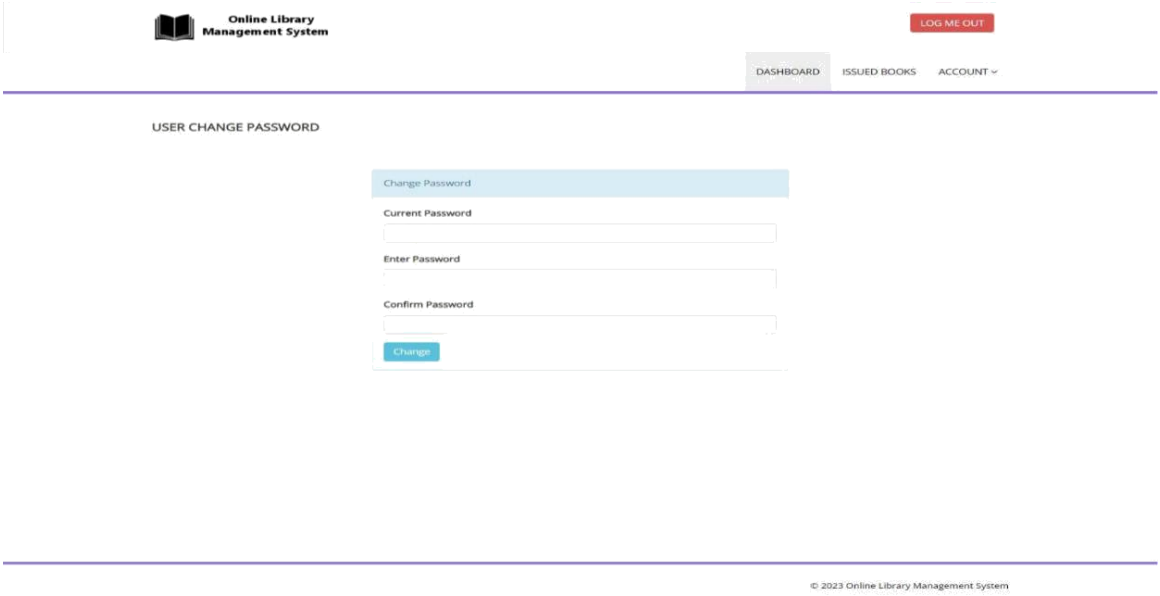
User Dashboard



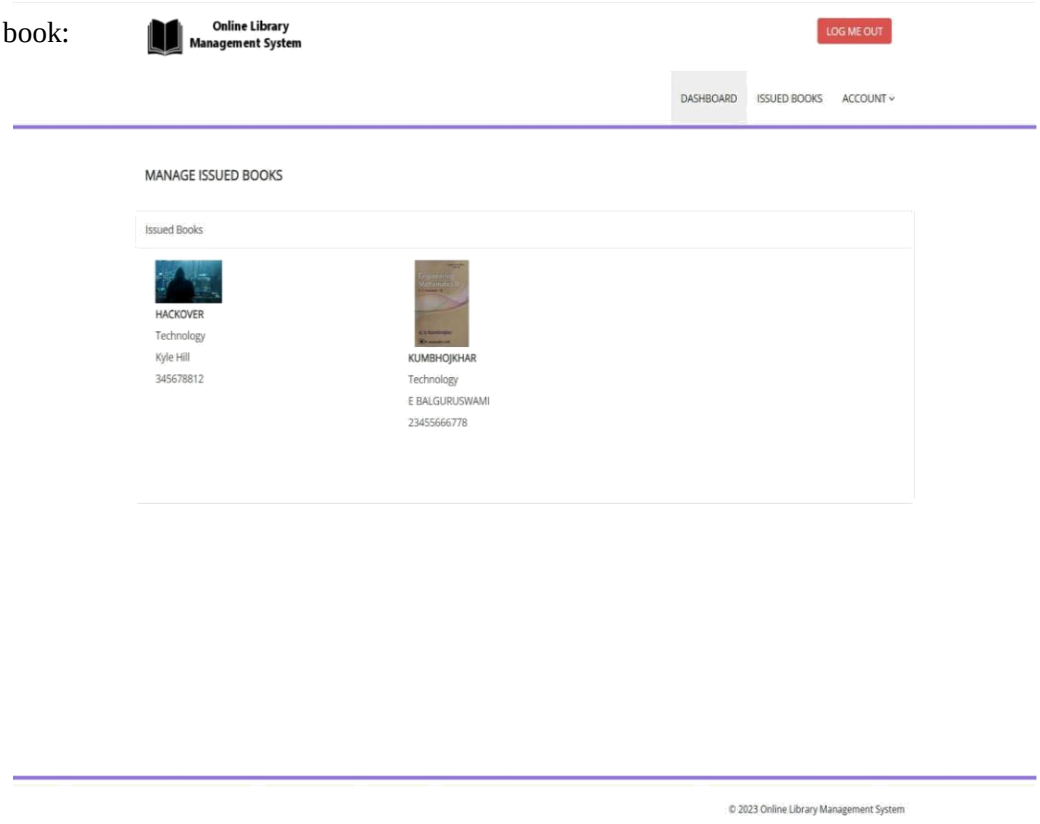
User Profile



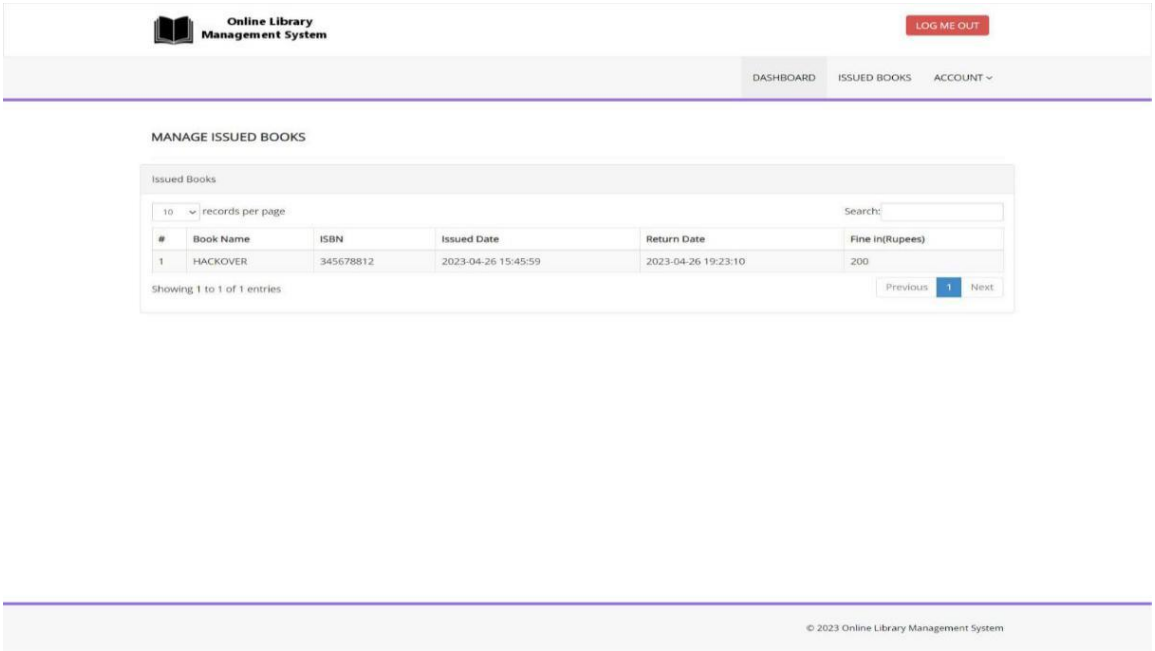
Change Password


Online Library Management System
LOG ME OUT
DASHBOARD
ISSUED BOOKS
ACCOUNT
USER CHANGE PASSWORD
Change Password
Current Password
Enter Password
Confirm Password
Change
© 2023 Online Library Management System

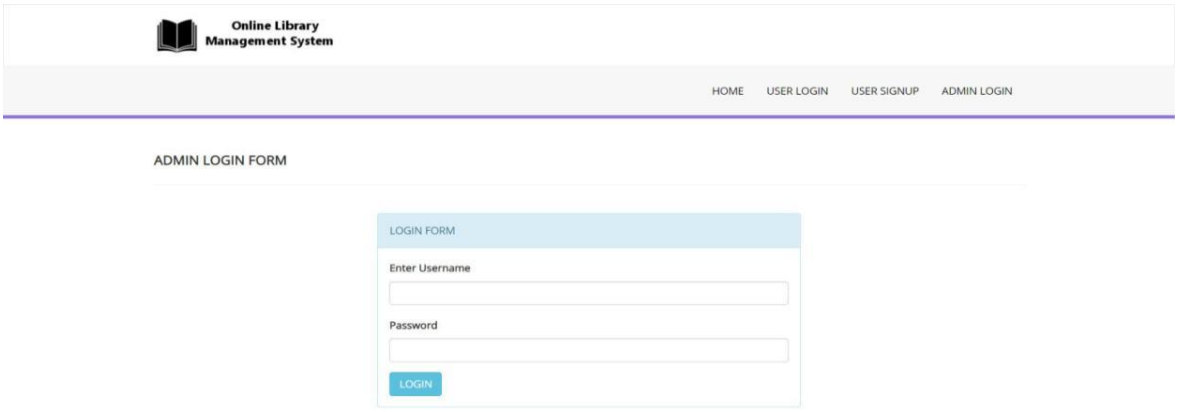
Listed book:



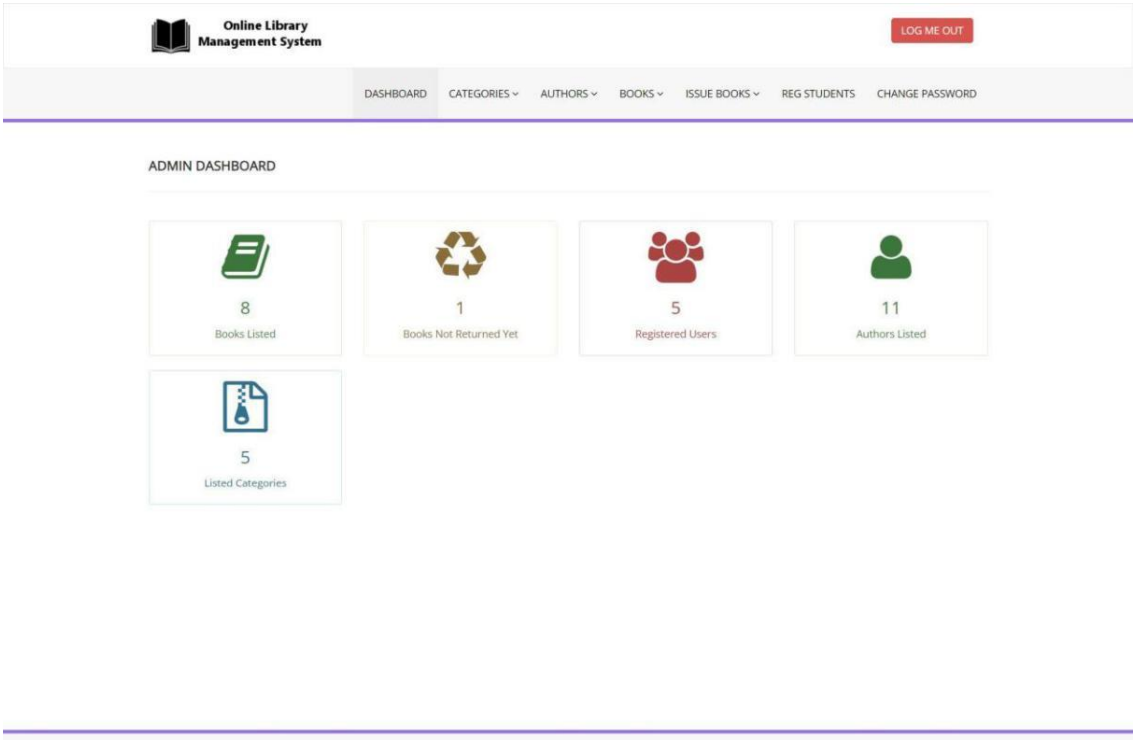
Issued Books



Admin Login



Admin Dashboard



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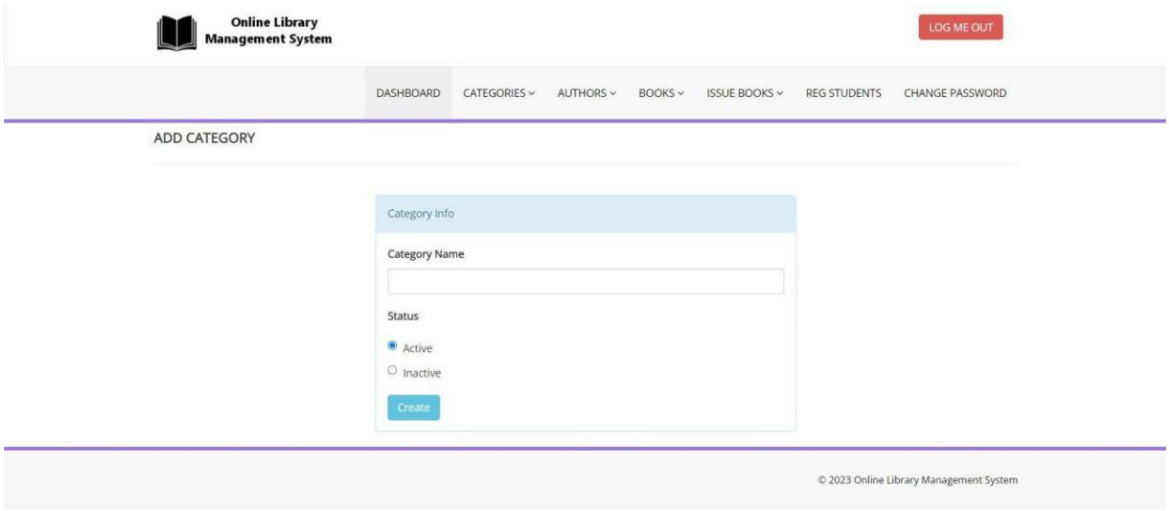

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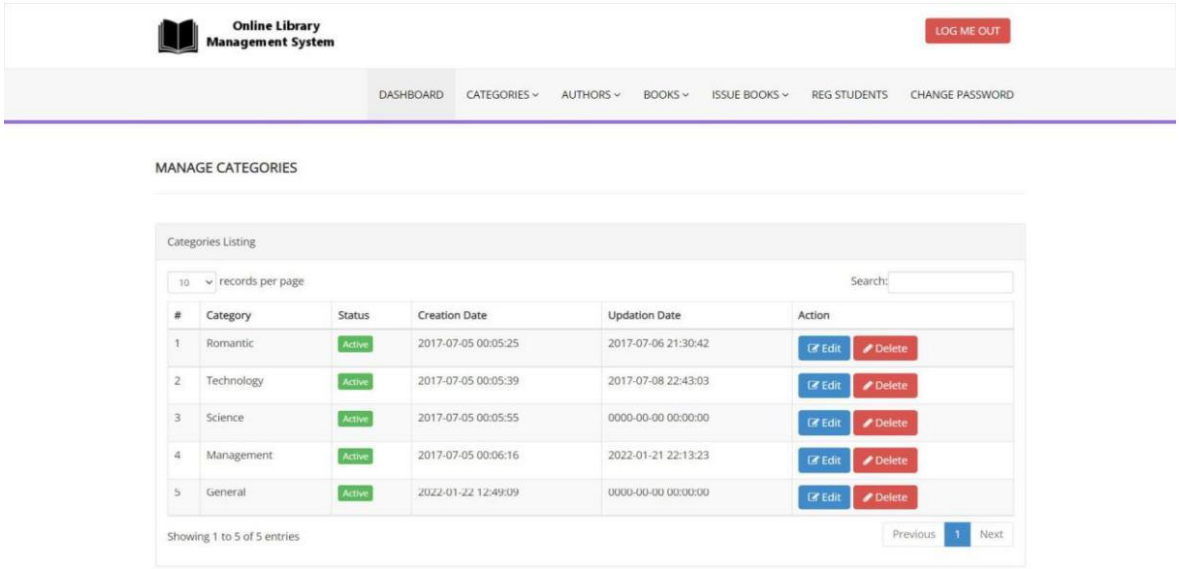

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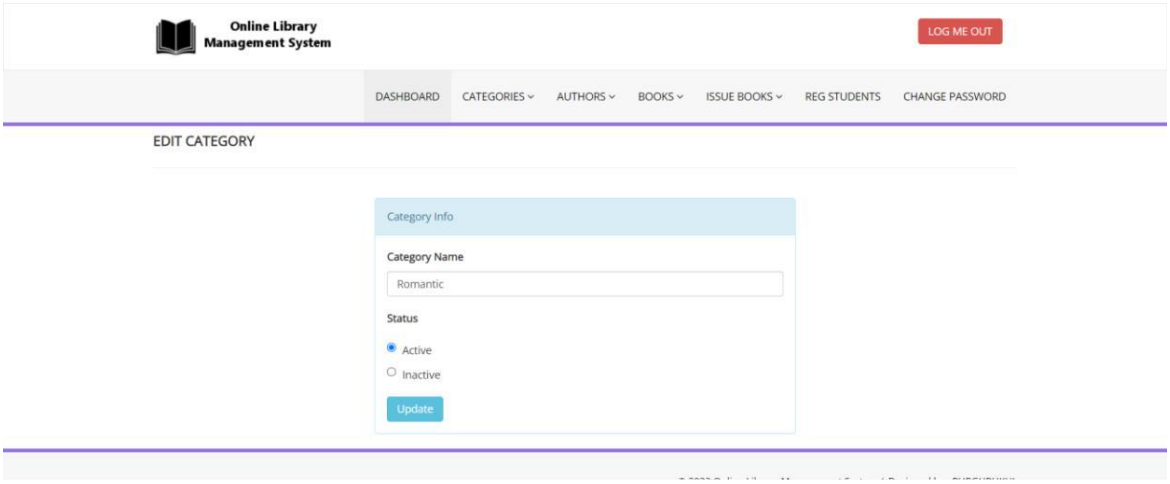

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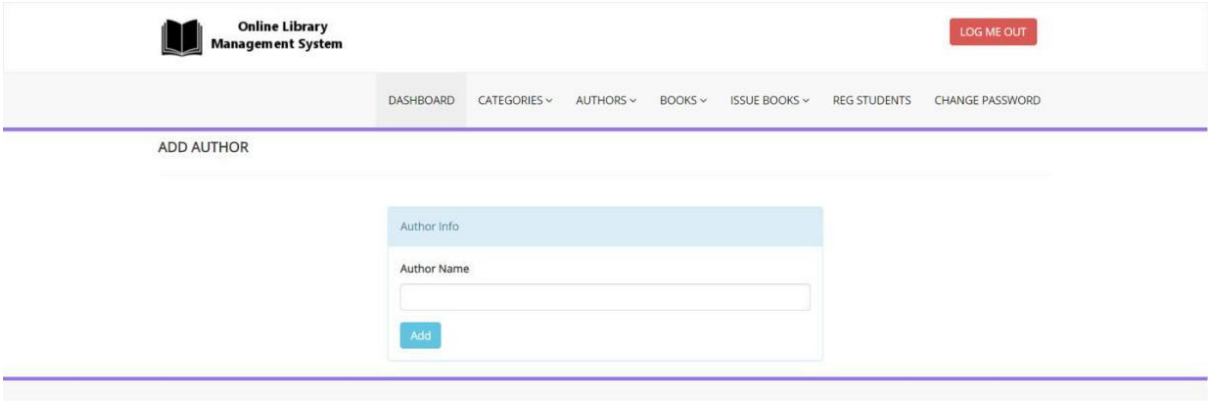
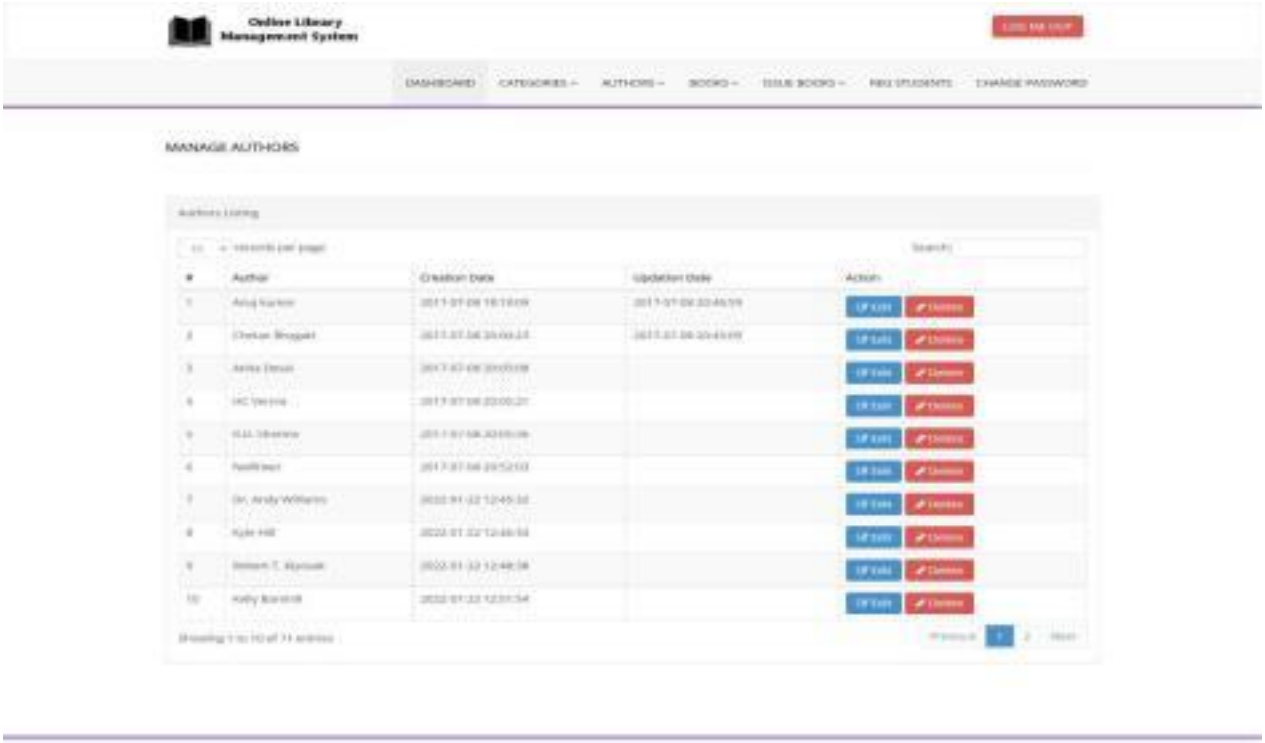
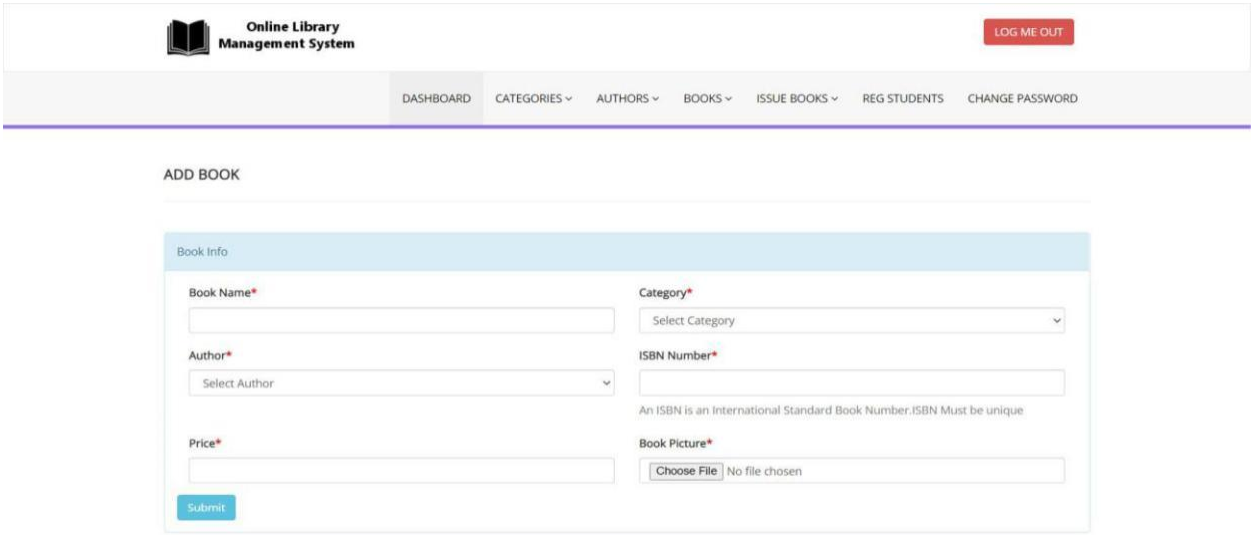


Manage Author



Add Books



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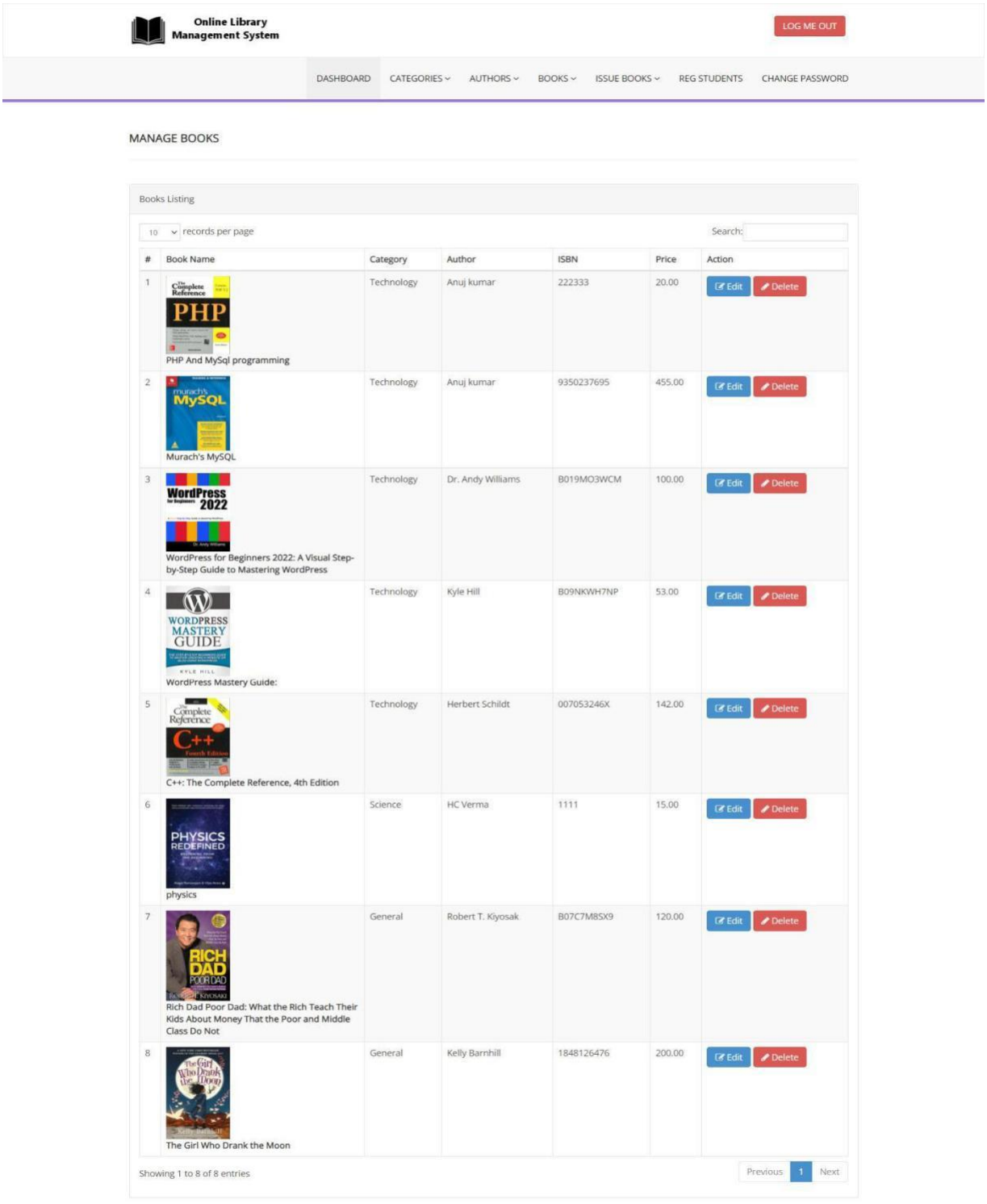

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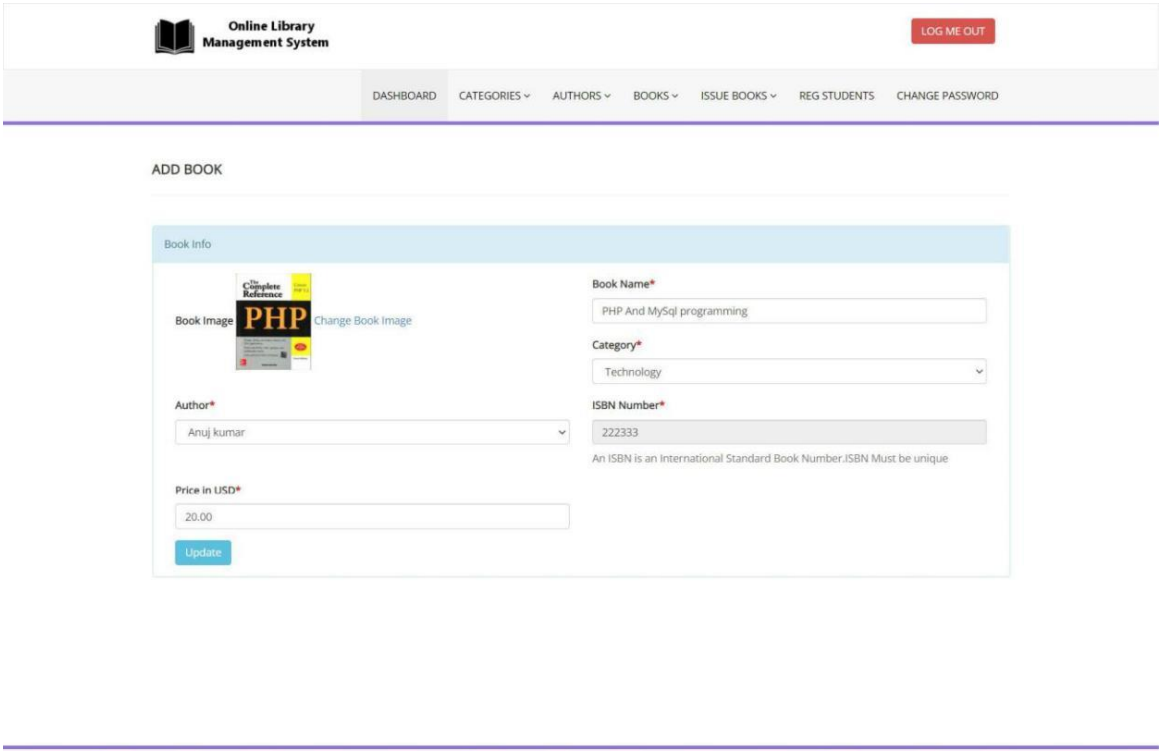
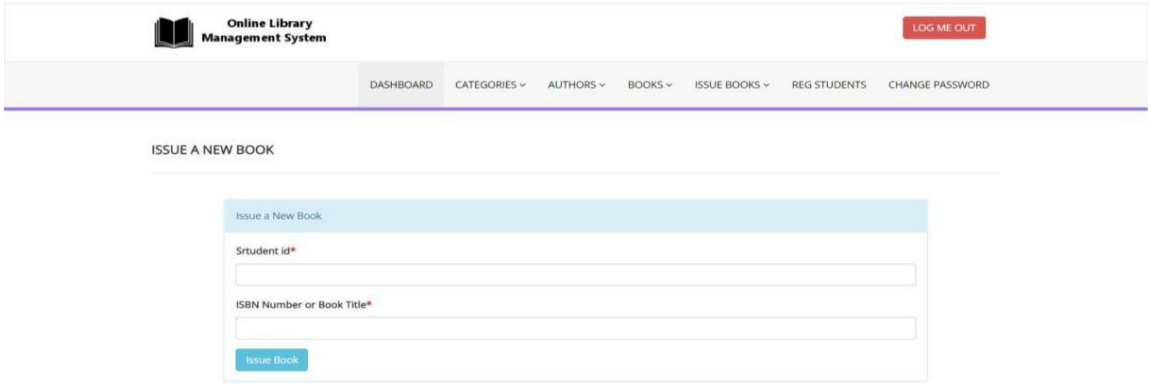
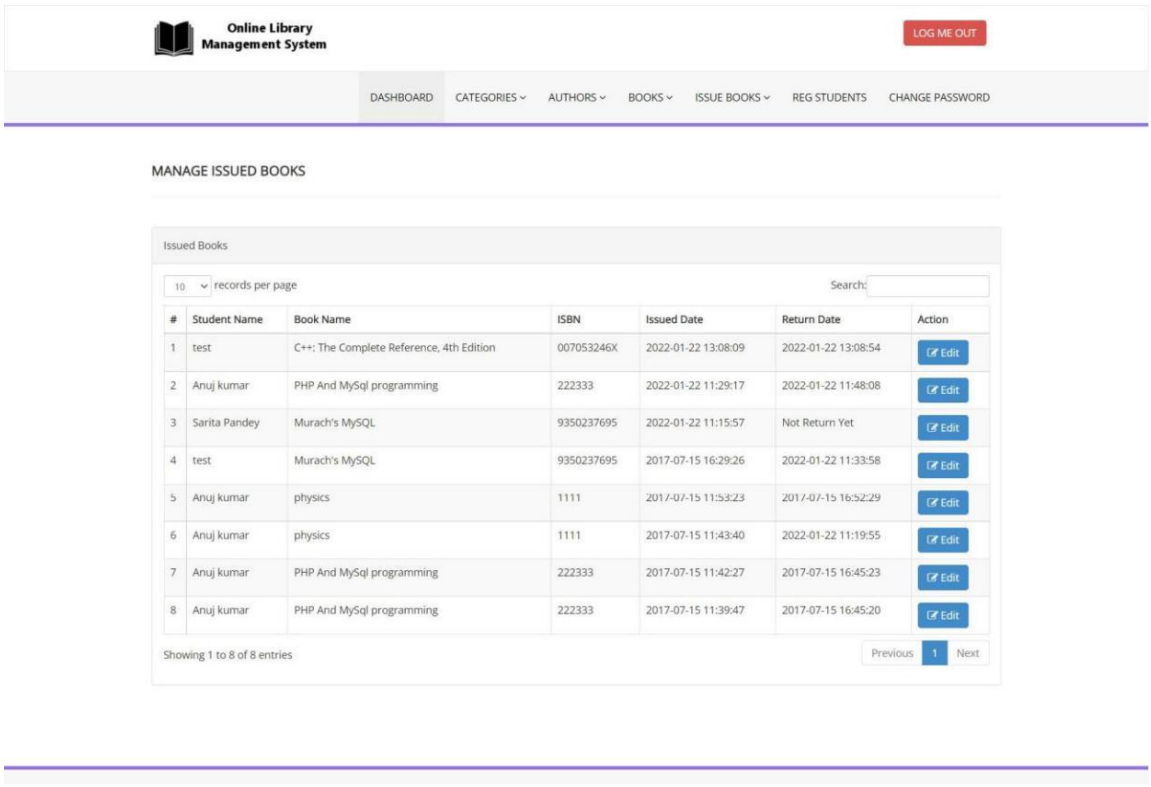


Issue New Books



Manage Issue Books



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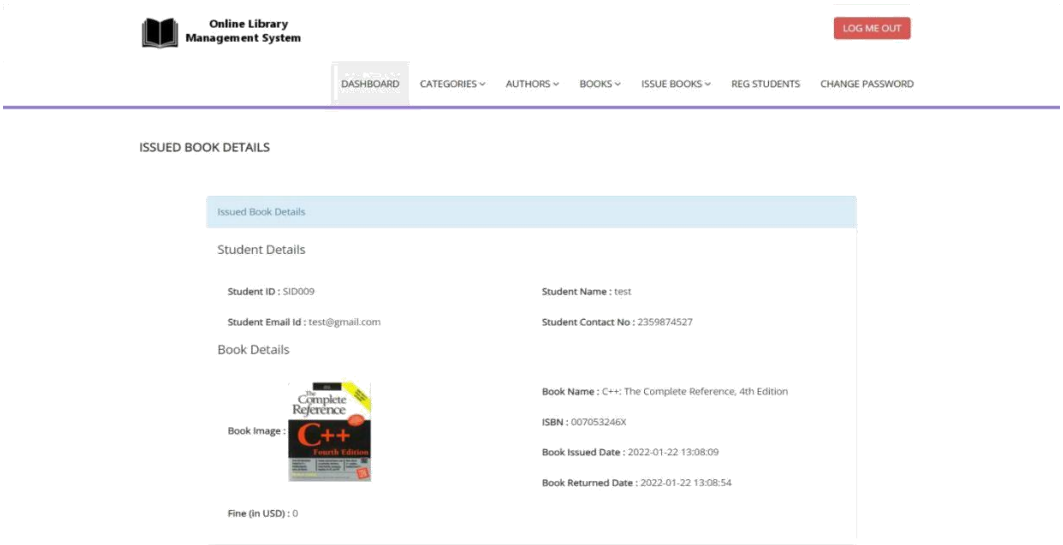
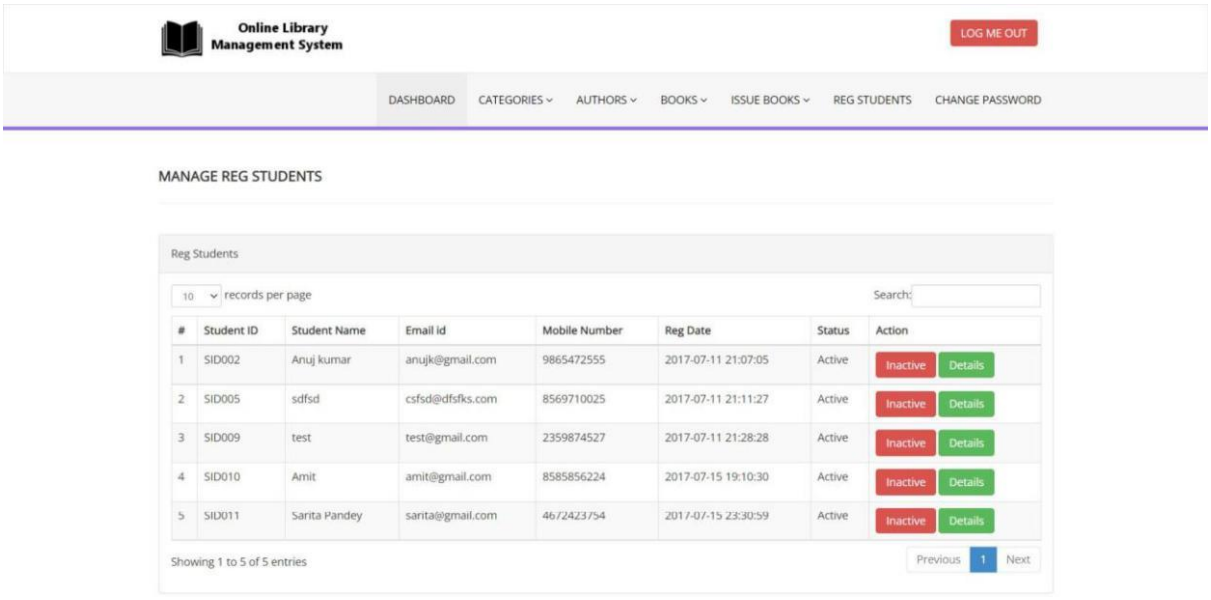
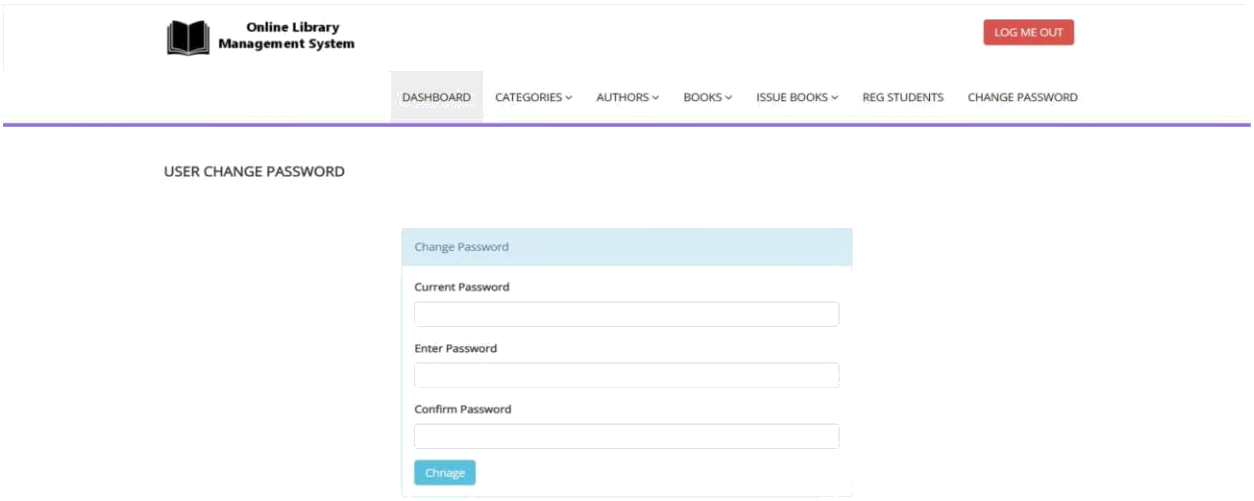


Register Students



Admin change Password


Online Library
Management System
LOG ME OUT
DASHBOARD
CATEGORIES
AUTHORS
BOOKS
ISSUE BOOKS
REG STUDENTS
CHANGE PASSWORD
USER CHANGE PASSWORD
Change Password
Current Password
Enter Password
Confirm Password
Chnage

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 unit 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 require

1) Test For the admin module

A) 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 other wise if any of data is wrong it will get redirected back to the login page and again ask for username and password

B) Student account addition- In this section the admin can verify student details from student academinc 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

.

2) Test for Student login module

A) Test for Student login Form-This form is used for log in of Student .In this we enter thelibraryid, username and password if all these are correct student 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 libraryid, username and password

B) 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..

CHAPTER 6

CONCLUSION & FUTURE SCOPE

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

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

CHAPTER 7

REFERENCES

- http://www.w3schools.com/html/html_intro.asp
- https://www.w3schools.com/php/default.asp
- https://www.w3schools.com/sql/default.asp
- Fundamentals of software engineering by Rajib mall, PHIlearning
- Web development and application development

8 . PLAGIARISM REPORT

RE-2022-115906-plag-report

ORIGINALITY REPORT

16%	8%	2%	6%
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	Submitted to Prince Sultan University Student Paper	1%
2	Submitted to University of Wolverhampton Student Paper	1%
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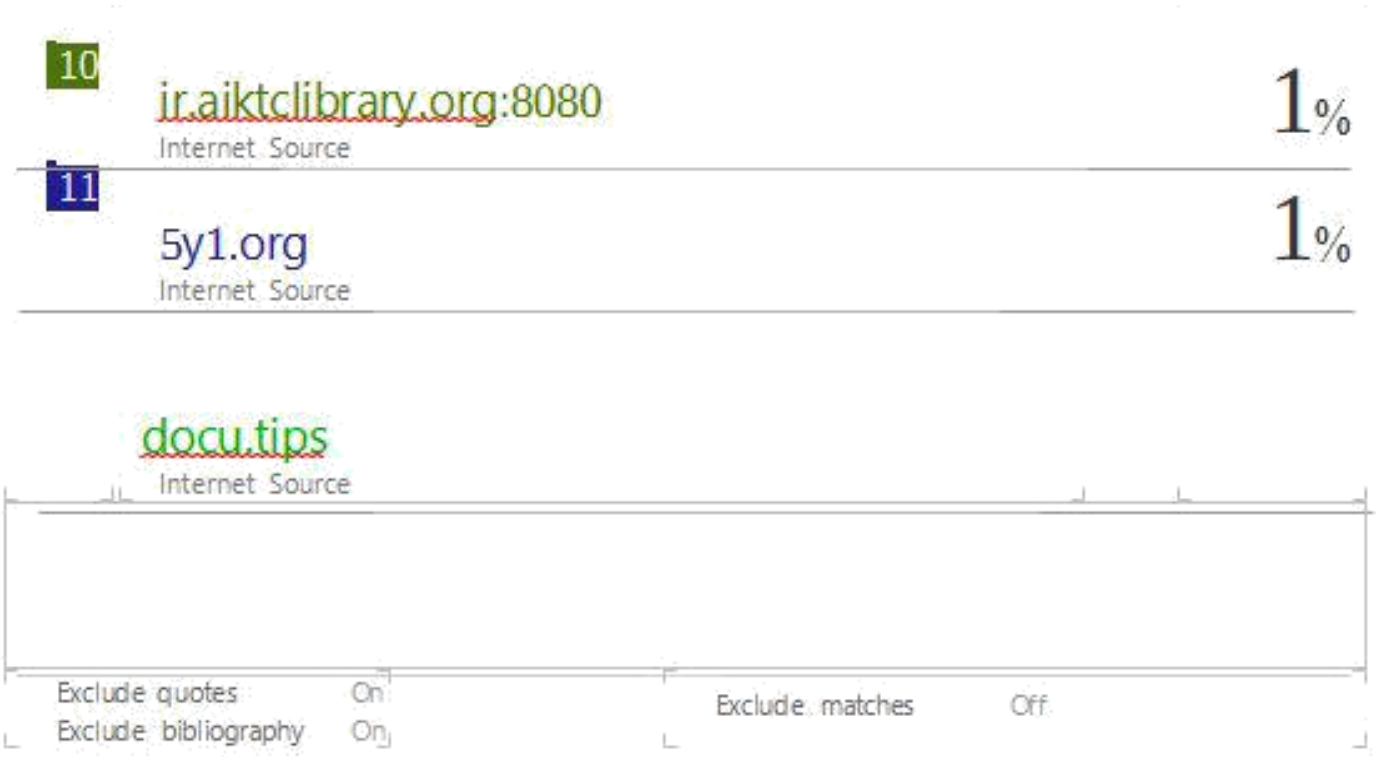
5	docplayer.net Internet Source	1%
6	mafiadoc.com Internet Source	2%
7	Submitted to Ghana Technology University College Student Paper	1%
8	Submitted to Gulf College Oman Student Paper	1%
9	products.phpgurukul.com Internet Source	1%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