

A Project Report on  
**“LIBRARY MANAGEMENT SYSTEM”**



Submitted by partial fulfilment of the  
**BACHELOR IN COMPUTER APPLICATION**  
By  
“Manish Kumar”  
Enrollment No.- AJU/190684

Under the esteemed guidance of  
“Miss. Divya Paikaray”

**ARKA JAIN UNIVERSITY**  
**JAMSHPEDPUR, JHARKHAND**  
DEPT. OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY  
2019-22



**ARKA JAIN UNIVERSITY**

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GUIDED BY-

Miss. Divya Paikaray

PRESENTED BY-

Manish Kumar (AJU/190684)

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**ARKA JAIN UNIVERSITY  
JAMSHEDPUR, JHARKHAND  
DEPARTMENT OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY**

**CERTIFICATE**

This is to certify that the project entitled "**LIBRARY MANAGEMENT SYSTEM**", is bona-fide work of **Manish Kumar** bearing AJU/190684 submitted in partial fulfilment of the requirements for the award of degree of **BACHELOR IN COMPUTER APPLICATION** from ARKA JAIN UNIVERSITY, JHARKHAND.

*Dinjan Bikanay*  
Internal Guide

*Anil Pandey*  
HOD

Date: 28/05/2022



# IT DEVELOPER

IT ENGINEERS

Ref. No: ITD-IP-0322-013

Date: 08-03-2022

## PROJECT INTERNSHIP LETTER

### TO WHOM IT MAY CONCERN

This is to certify that Mr. **Manish Kumar**, a student of ARKA JAIN University, Jharkhand, Jamshedpur has successfully completed his Project Internship/Training (Virtual) with our organization as a **Full Stack Web Developer** during the period of November 2021 to February 2022.

The topic of the project was:

### ***“Library Management System”***

The Frontend and backend used for project development was HTML, CSS, JavaScript, BootStrap, PHP, MYSQL.

During this period of internship/training, he was found to be honest, creative & able to perform all his duties perfectly on the project.

We wish him all the best in all his future accomplishments.

For IT DEVELOPER



(Authorized Signatory)

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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 teachers login .It also has a facility of admin login through which the admin can monitor the whole system .It also has facility of an online notice board where teachers can student can put up information about workshops or seminars being held in our colleges or nearby colleges and librarian after proper verification from the concerned institution organizing the seminar can add it to the notice board .

This library management system is mainly use by librarian and library admin. Normal Librarian is able to manage the member maintenance module, book maintenance module and also the most important module in a library which is book transaction module. Besides that, library management system also allows user to manage the publisher as well as lost book module. On the other hand, other type of user which is admin level staff is able to handle the staff module and view the report module.

Library is a place where all kind of books are available. Online Library Management system is a web-based application. This system contains list of all the books and can be accessed by remote users concurrently from anywhere in the campus. But for that user must be registered user.

Client sends requests, on receiving the request the server processes it and extracts the data from database and sends the result back to the client. This system provides separate interface and login for librarian and students. Librarian can modify database.

Users can search for books and renewal books online. They can request for any book to the librarian from anywhere in the college. They can view the issue and return dates of any that they have borrowed book.

## **ACKNOWLEDGMENT**

I would like to express my sincere gratitude to several individuals and organization for supporting me throughout the completion of my project.

First, I wish to express my sincere gratitude to my mentor **Miss Divya Paikaray** for her enthusiasm patience, insightful comments, helpful information, practical advices and unceasing ideas that have helped me tremendously at all times in my Project and writing of this thesis. Her immense knowledge, profound experience and professional expertise in Backend has enabled us to complete this project successfully. Without her support and guidance, this project would not have been possible.

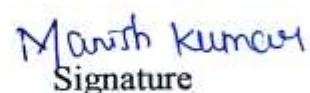
I am also thankful to our respected **H.O.D Dr. Arvind Kumar Pandey** and all faculty members for loving inspiration and timely guidance. I also wish to express my sincere thanks to the Department of Computer science & Information technology of ARKA JAIN UNIVERSITY for accepting this project.

Thanks for all your encouragement!

## **DECLARATION**

I hereby declare that the Project entitled "**LIBRARY MANAGEMENT SYSTEM**" done at ARKA JAIN UNIVERSITY has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

This project is done in partial fulfilment of the requirement for the award of degree of **BACHELOR OF COMPUTER APPLICATION** to be submitted as final semester project as part of our curriculum.

  
Signature

Manish Kumar

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# **Chapter 1**

## **INTRODUCTION**

### **1.1 Overview**

A library management system is application that is designed to manage all the functions of a library. It helps librarian to maintain the database of new books and the books that are borrowed by members along with their due dates.

This system completely automates all your library's activities. The best way to maintain, organize, and handle countless books systematically is to implement a library management system software. A library management system is used to maintain library records. It tracks the records of the number of books in the library, how many books are issued, or how many books have been returned or renewed etc.

### **1.2 Project Aims and Objective**

The project aims and objectives that will be achieved after completion of the system were carried out in this sub chapter. The succession of the system also will be evaluated through this sub chapter.

The project objectives are:

- To eliminate the paper-work in library
- To record every transaction in computerized system so that problem such as record file missing won't happen again
- To design a user-friendly graphical user interface which suit the users
- To complete the system according to project schedule
- To produce technical report that documents the phases, tasks and deliverables in the project

## **1.3 Background of The Project**

Library Management System is an application refer to other library system and it is suitable to use by small and medium size library. It is used by librarian and library admin to manage the library using a computerized system. The system was developed and designed to help librarian record every book transaction so that the problem such as file missing or record missing will not happen.

Book and member maintenance module also included in Library Management System. Admin can register or edit the member or book in the system. With this computerized maintenance, library will not lose the book record or member record which always happen when no computerized system brings used.

In addition, first type of report is rental and return report, admin can check the rental, return transaction which happen on particular day. Besides that, user can check the Top10 books which borrow by the member in a day, month or year based on category. Moreover, activity log report also provided by system so that admin can check what process has been carried out such as register new book, edit member information as well as login, logout information.

When user lost the book, user can use Lost Book Module to register the lost book and receive the fine which is double price of that book.

All these modules are able to help librarian to manage the library more convenience and efficiency compare to those libraries without computerized system.

## 1.4 Operation Environment

### Hardware Configuration

Client Side: -

RAM	512MB
Hard Disk	5GB
Processor	2.10GHZ

Server Side: -

RAM	1GB
Hard Disk	8GB
Processor	2.89GHz

### Software Requirements

Client Side: -

Web Browser	Google Chrome or any Compatible browser
Operating System	Windows or any equivalent OS

Server Side: -

Web Server	XAMPP
Frontend	HTML, CSS, JS, BOOTSTRAP
Backend	PHP, MYSQL
Web Browser	Google chrome or any compatible browser
Operating System	Windows or any equivalent OS

# **Chapter 2**

## **SYSTEM ANALYSIS**

### **2.1 System Requirement Specification**

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. Sometimes due to some human error there may be a loss of records.
- File damaged - When a computerized system is not their file is always lost due to some accident like spilling of water by some member on file accidentally. Besides some natural disaster like floods or fires may also damage the files.
- Difficult to search record - When there is no computerized system there is always a difficulty in searching of records if the records are large in number.

System Objective:

- 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.

## Feasibility Study

A feasibility analysis is undertaken to determine the possibility or probability of either improving the existing system or developing a completely new system. It helps to obtain an overview of the problem and to get rough assessment of whether feasible solution exist. There are three aspects in feasibility study portion of the preliminary investigation.

- 1) Operational feasibility
- 2) Technical feasibility
- 3) Economical feasibility

### Operational feasibility: -

It is a measure of how well a proposed system solves the problems, and takes advantages of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development

### Technical feasibility: -

This involves questions such as whether the technology needed for the system exists, how difficult it will be to build, and whether the firm has enough experience using that technology.

### Economic feasibility: -

Economic analysis is the most frequently used method for evaluating the effectiveness of a new system. More commonly known as cost/benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs.

## **2.2 Software And Hardware Requirements**

### **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.

### **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 long time. 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

## **2.3 Existing vs Proposed System**

- i. Existing system does not have any facility of teacher's login or student login whereas 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 have 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

## 2.4 Software Tools Used

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

**Front end** - The front end is designed using of html, CSS, Java script

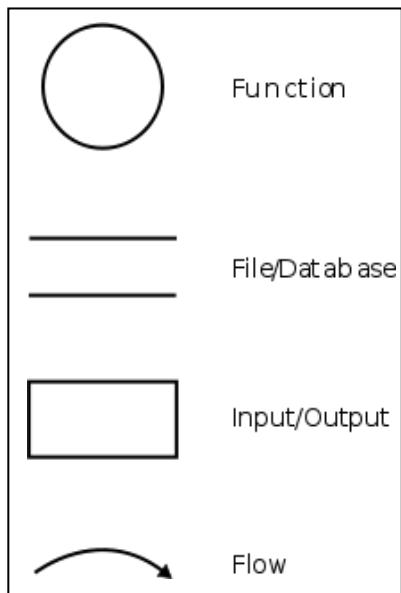
- **HTML** - **Hyper Text Markup Language** is the main markup language for creating web pages and other information that can be displayed in a web browser. HTML is written in the form of HTML elements consisting of tags enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent empty elements and so are unpaired, for example <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. HTML allows images and objects to be embedded and can be used to create interactive forms.
- **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. CSS specifies a priority scheme to determine which style rules apply if more than one rule matches against a particular elements.
- **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.

**Back end** - The back end is designed using PHP and MySQL which is used to design the databases.

- **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 Pre-processor, a recursive backronym. PHP 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 used in standalone graphical applications. PHP is free software released under the PHP License. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free of charge.
- **MySQL** - MySQL is 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

## 2.5 Data Flow Diagram (DFD)

- A data-flow diagram is a way of representing a flow of data through a process or a system.
- The DFD also provides information about the outputs and inputs of each entity and the process itself.

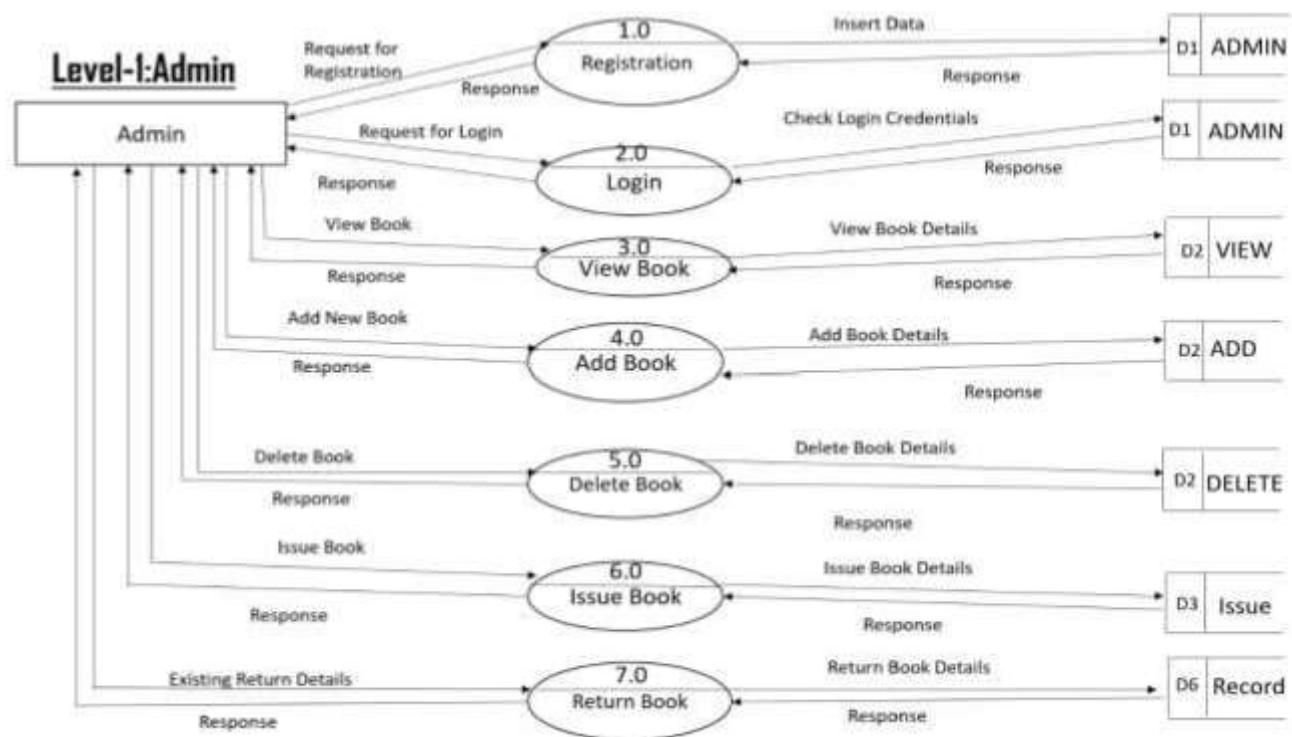


### 0-Level

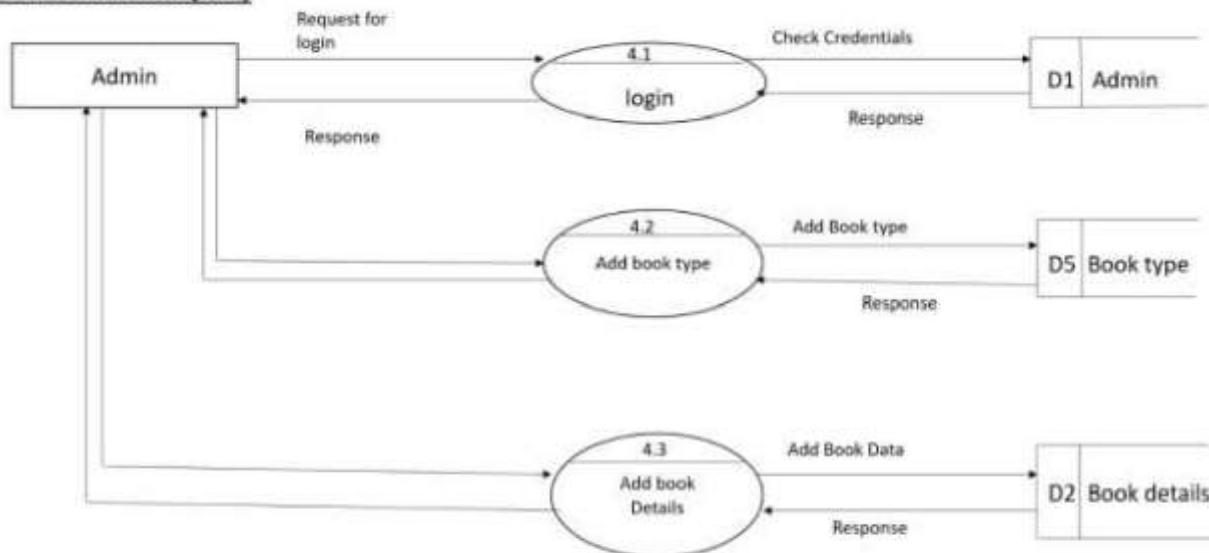
#### 0-level DFD



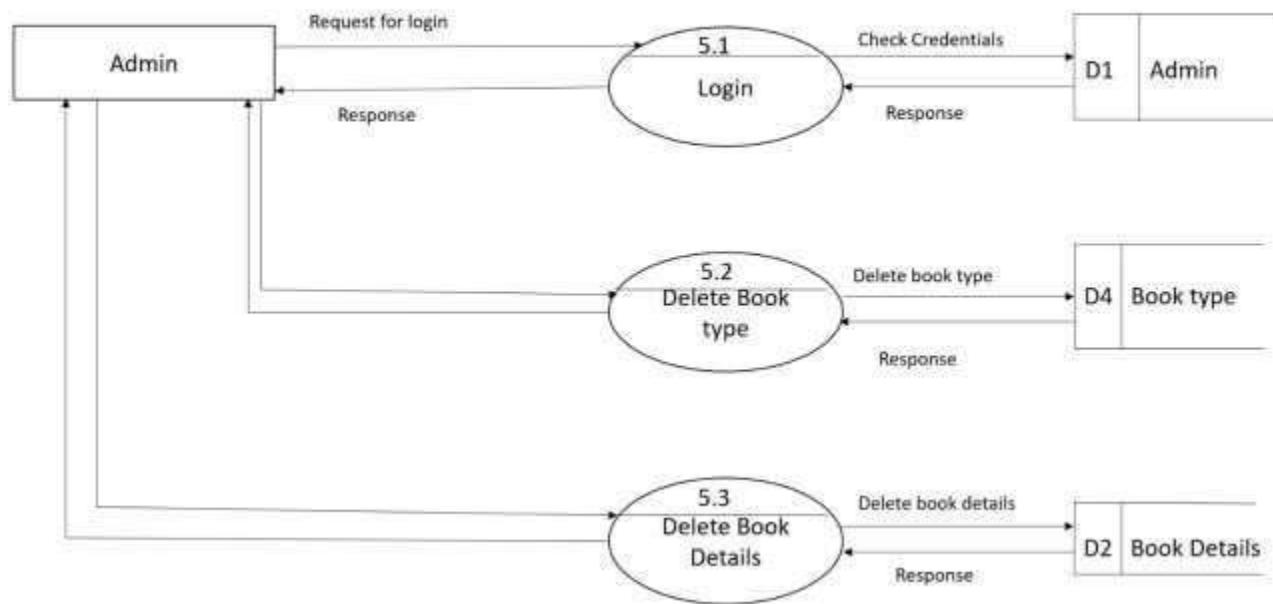
## Level-1: Admin



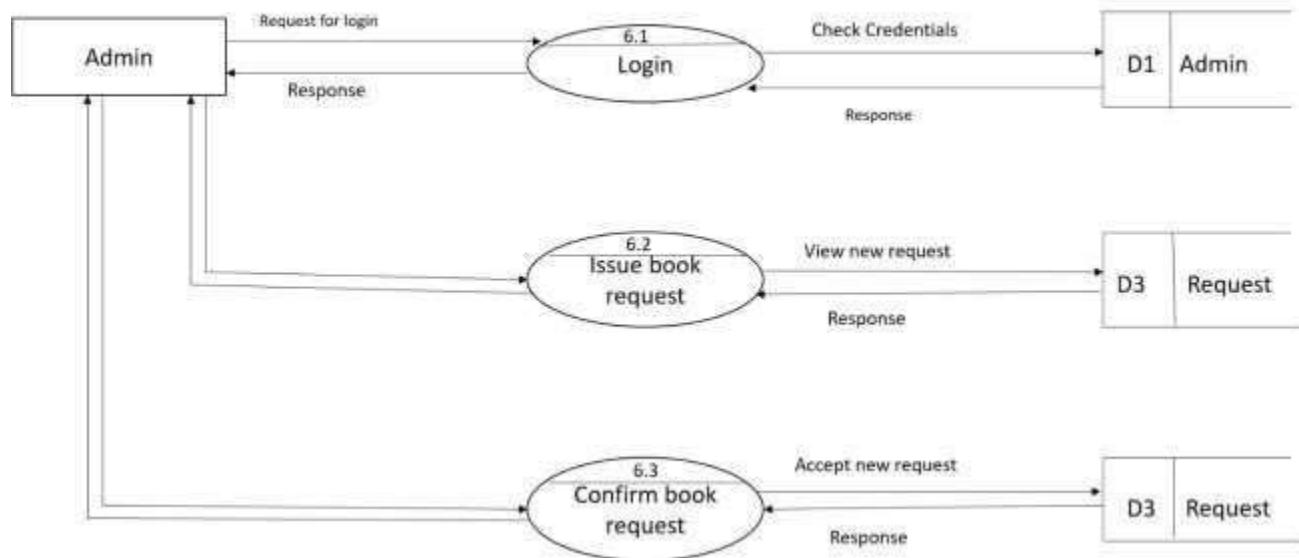
## Level-2: Admin(4.0)



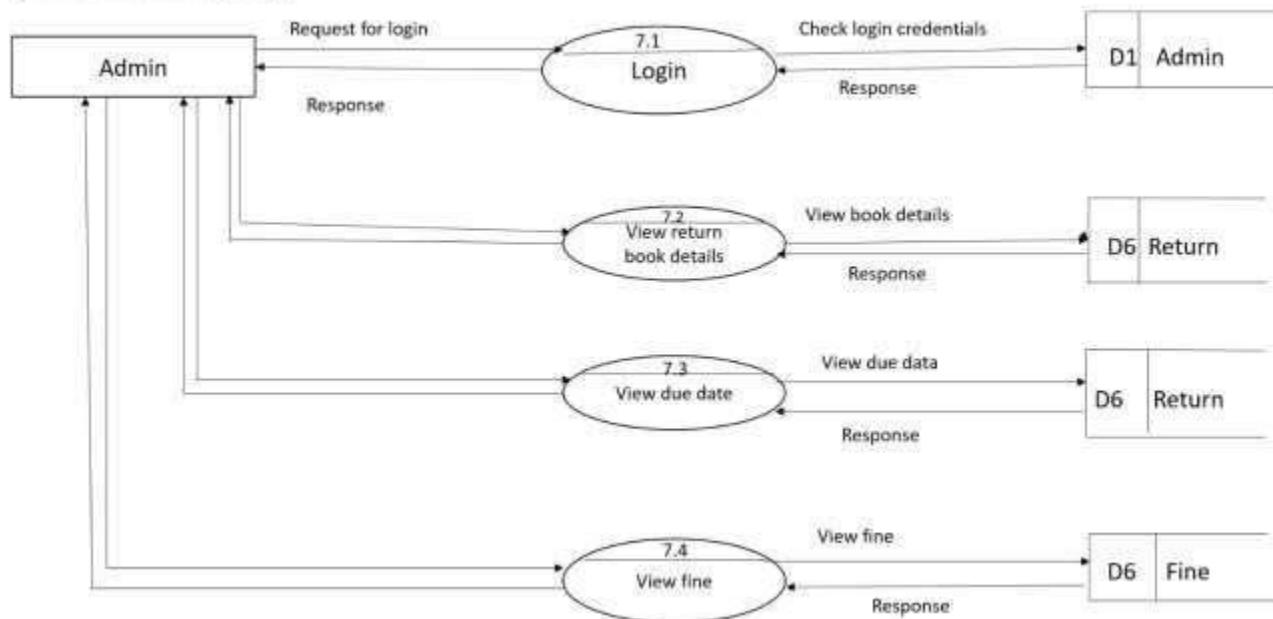
## Level-2:Admin(5.0)



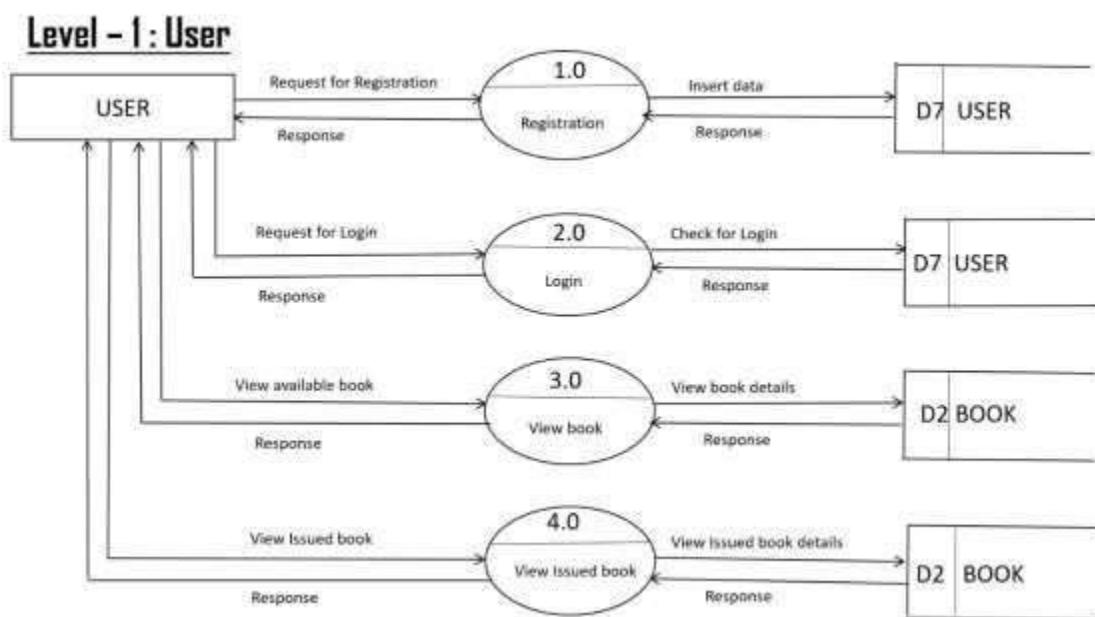
## Level-2: Admin(6.0)



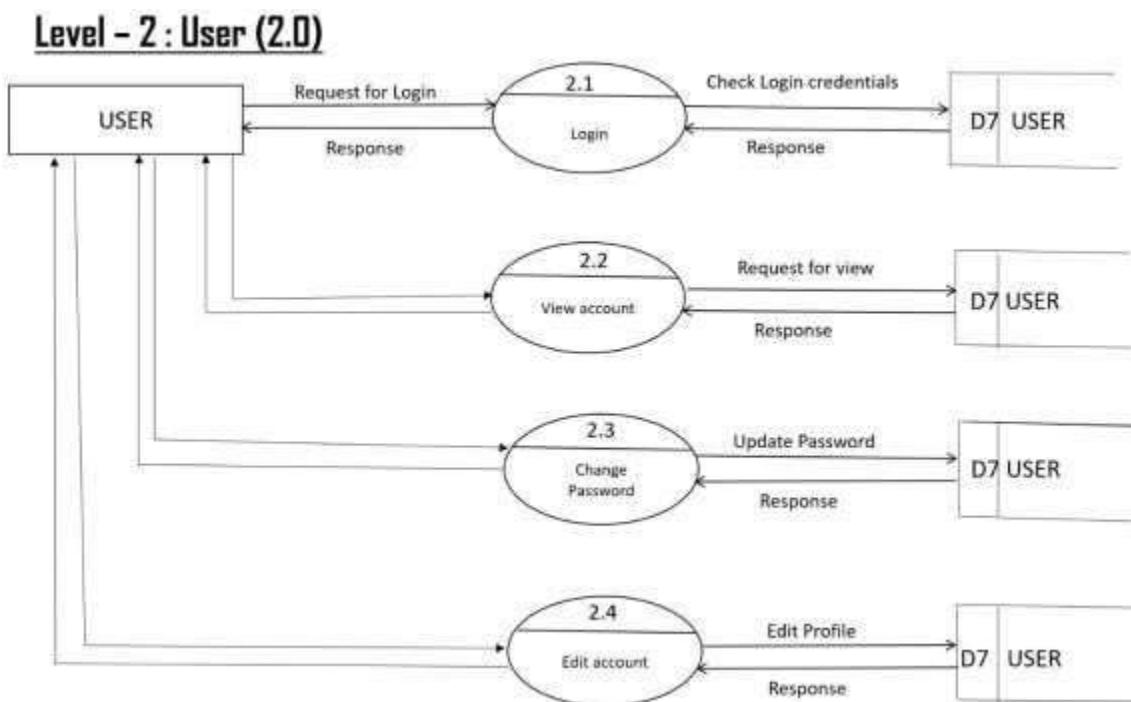
## Level-2: Admin(7.0)



## Level-1: User

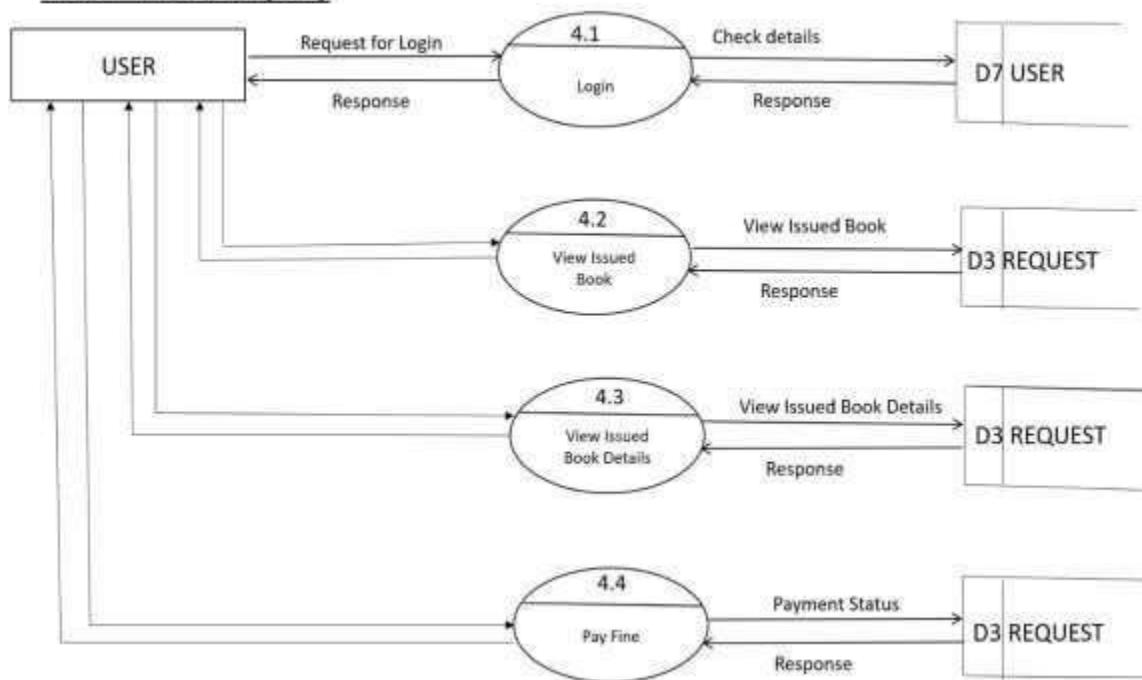


## Level-2:User(2.0)



## Level-2: User (4.0)

### Level - 2 : User (4.0)



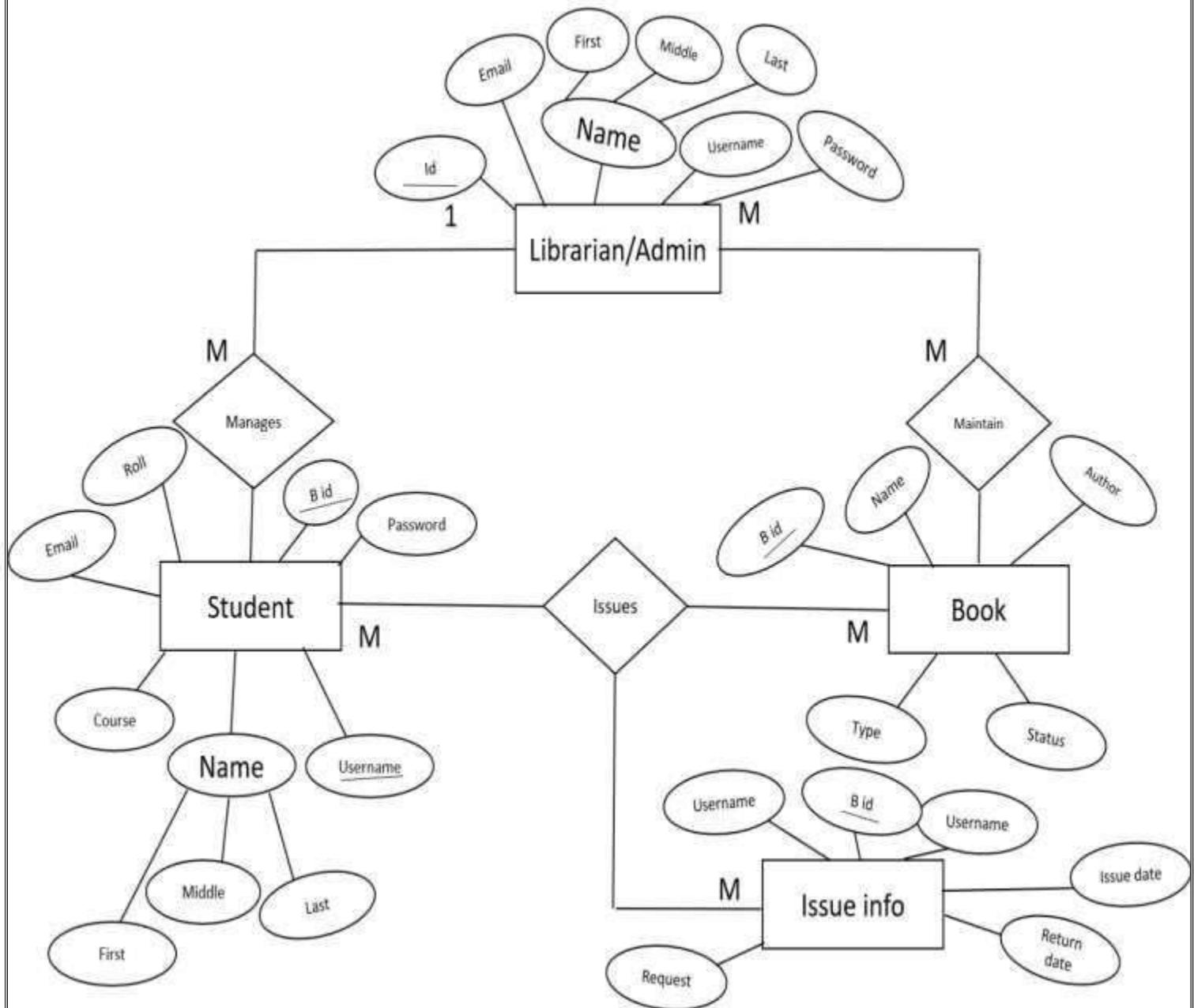
# **Chapter 3**

## **SYSTEM DESIGN**

### **3.1 Project Designing**

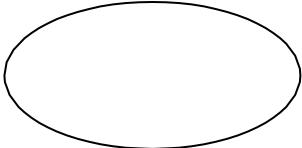
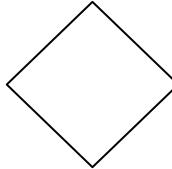
- The entire system is projected with a physical diagram which specifies the actual storage parameters that are physically necessary for any database to be stored on to the disk. The overall systems existential idea is derived from this diagram.
- The relation upon the system is structure through a conceptual ER-Diagram, which not only specifies the existential entities but also the standard relations through which the system exists and the cardinalities that are necessary for the system state to continue.
- The content level DFD is provided to have an idea of the functional inputs and outputs that are achieved through the system. The system depicts the input and output standards at the high level of the systems existence.

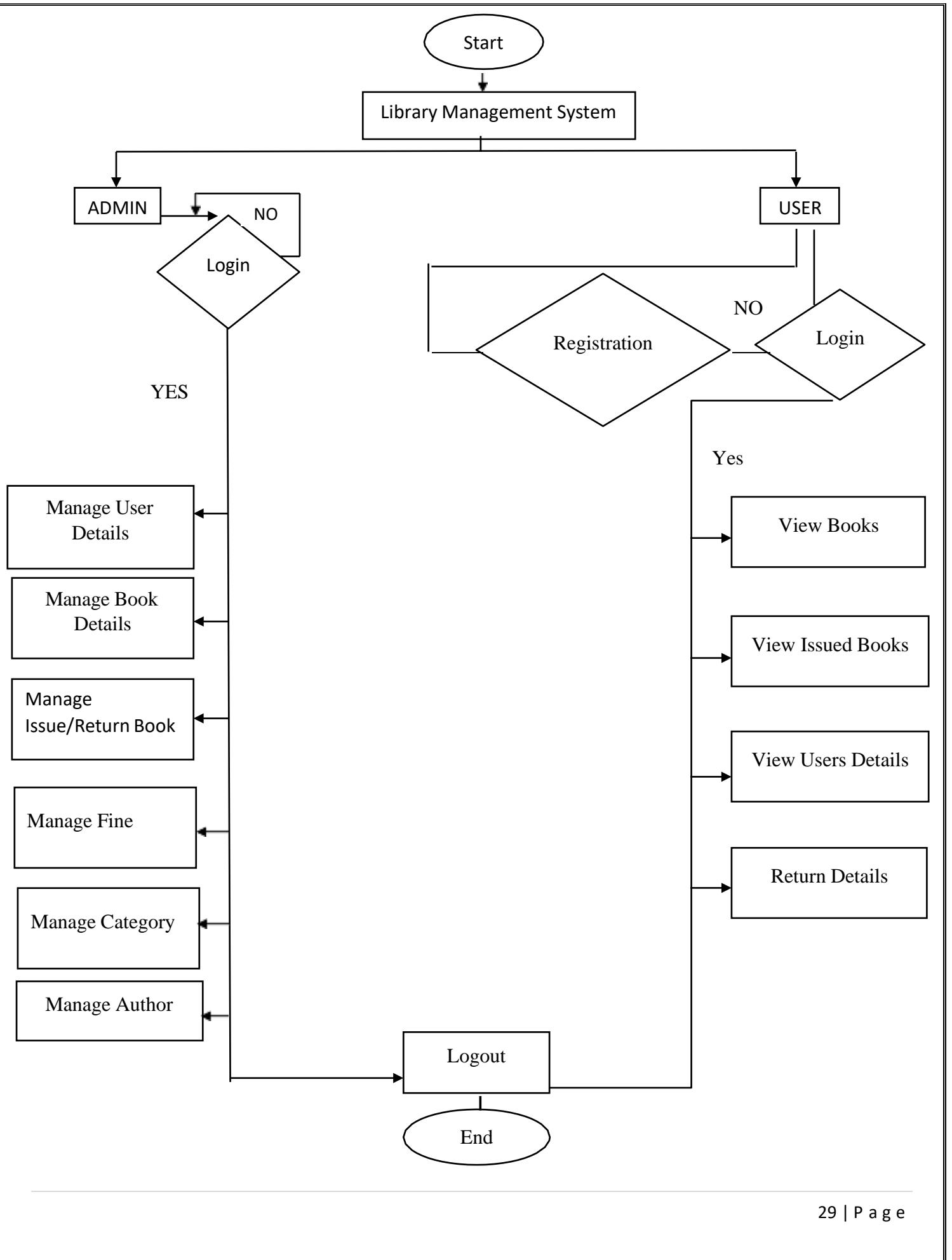
## 3.2 ER Diagram



### 3.3 Flow Chart

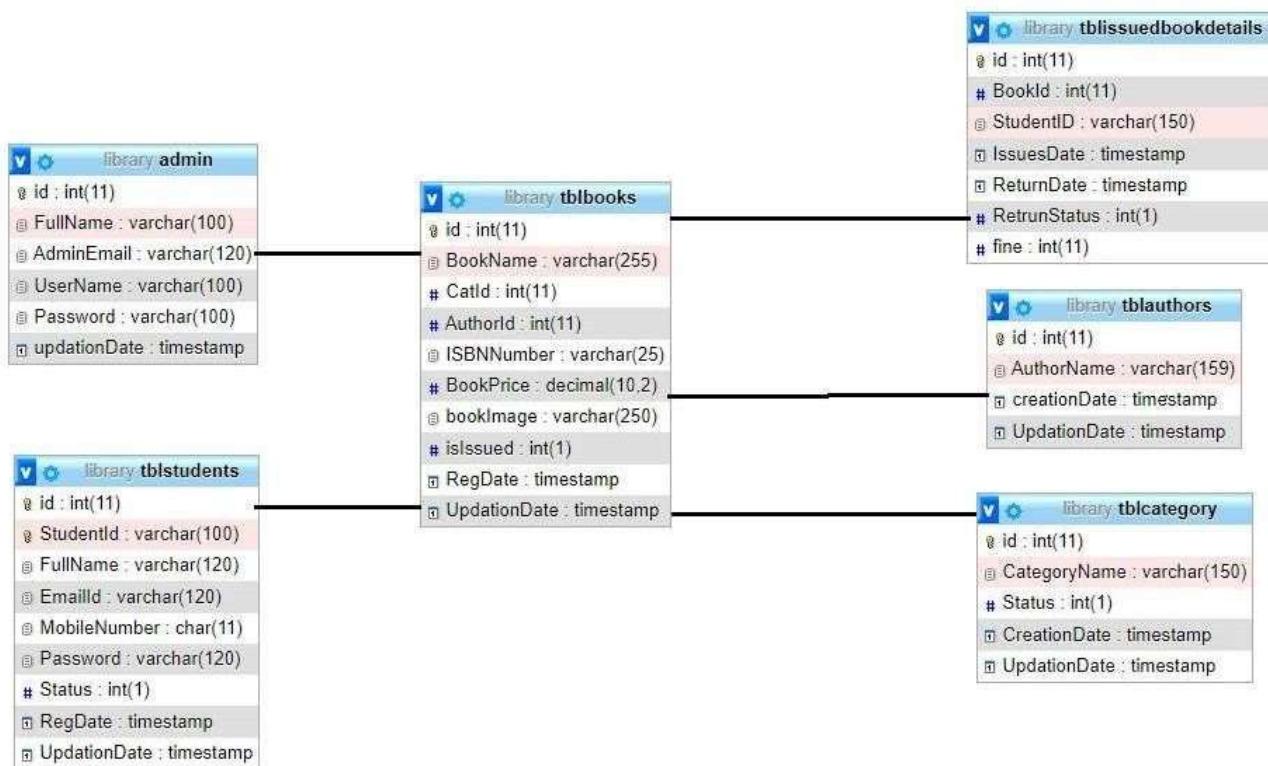
A flowchart is a type of diagram that represents a workflow or process. A flowchart can also be define as a diagrammatic representation od an algorithm, step-by-step approach to solving a task. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows.

Flowchart Symbol	Meaning	Explanation
	Start and end	The symbol denoting the beginning and end of the flowchart
	Step	This symbol shows that the user perform a task. (Note: In many flowcharts steps and actions are interchangeable).
	Decision	This symbol represents a point where a decision is made
	Action	This symbol means that the user performs an action. (Note: In many flow charts steps and action are interchangeable.)
	Flow line	A line that connects the various in an ordered ways.



## 3.4 Database Normalisation

Normalisation is a database design technique that reduces data redundancy and eliminates undesirable characteristics like Insertion, Update, and Deletion Anomalies. Normalisation rules divides larger tables into smaller tables and links them using relationships. The purpose of normalization in SQL is to eliminate redundant(repetitive) data and ensure data is stored logically.



## 3.5 Database Design

The data in the system has to be stored and retrieved from database. Designing the database is part of system design. Data elements and data structures to be stored have been identified at analysis stage. They are structured and put together to design the data storage and retrieval system. A database is a collection of interrelated data stored with minimum redundancy to serve many users quickly and efficiently. The general objective is to make database access easy, quick, inexpensive and flexible for the user. Relationships are established between the data items and unnecessary data items are removed. Normalization is done to get an internal consistency of data and to have minimum redundancy and maximum stability. This ensures minimizing data storage required, minimizing chances of data inconsistencies and optimizing for updates. The MS Access database has been chosen for developing the relevant databases.

## Database Tables

- Admin Table Structure: - This table shows admin login details.

The screenshot shows a Microsoft Access database interface displaying the 'Admin' table. The table has columns: id, FullName, AdminEmail, UserName, Password, and updationDate. A single row is visible with the following data: id=1, FullName='Manish Kumar', AdminEmail='admin@gmail.com', UserName='admin', Password='f925916e2754e5e03f75dd58a5733251', and updationDate='2022-05-13 10:37:16'. Below the table, there are navigation buttons for back, forward, and search, along with options for Show all, Number of rows (set to 25), and Filter rows.

+ Options		id	FullName	AdminEmail	UserName	Password	updationDate
<input type="checkbox"/>	<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Manish Kumar	admin@gmail.com	admin	f925916e2754e5e03f75dd58a5733251	2022-05-13 10:37:16
<input type="checkbox"/>	<input type="checkbox"/> Check all <input type="checkbox"/> With selected <input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete <input type="checkbox"/> Export						

- Authors Table Structure: - This table shows the authors details.

		Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None	
<b>+ Options</b>									
<b>↓ T →</b>									
		<b>id</b>	<b>AuthorName</b>		<b>creationDate</b>		<b>UpdationDate</b>		
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	Anuj kumar	2022-01-22 12:53:03	2022-01-22 12:53:03	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	2	Chetan Bhagatt	2022-01-22 12:53:03	2022-01-22 12:53:03	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	Anita Desai	2022-01-22 12:53:03	2022-01-22 21:53:41	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	4	HC Verma	2022-01-22 12:53:03	2022-01-22 21:53:45	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	5	R.D. Sharma	2022-01-22 12:53:03	2022-01-22 21:53:47	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	9	fwdfrwr	2022-01-22 12:53:03	2022-01-22 21:53:55	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	10	Dr. Andy Williams	2022-01-22 12:45:32	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	11	Kyle Hill	2022-01-22 12:46:34	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	12	Robert T. Kiyosak	2022-01-22 12:48:38	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	13	Kelly Barnhill	2022-01-22 12:51:54	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	14	Herbert Schildt	2022-01-22 12:53:03	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	15	CJ Date	2022-05-08 21:00:58	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	16	Narasimha Karumanchi	2022-05-08 21:08:20	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	17	Andreas C.Muller & Sarah Guido	2022-05-08 21:08:41	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	18	Ethem Alpaydin	2022-05-08 21:09:05	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	19	Robun Nixon	2022-05-08 21:09:26	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	20	Yashavant P. Kanetkar	2022-05-08 21:09:46	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	21	Mark Allen Weiss	2022-05-08 21:10:09	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	22	Real Python Team	2022-05-08 21:10:33	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	23	Wes McKinney	2022-05-08 21:10:54	NULL	
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	24	Adam Stewart	2022-05-08 21:11:14	NULL	

- Books Table Structure: - This table shows the books available in the library.

		Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	Name	
<b>+ Options</b>									
<b>↓ T →</b>									
		<b>id</b>	<b>BookName</b>	<b>Code</b>	<b>AuthorId</b>	<b>ISBNNumber</b>	<b>BookPrice</b>	<b>bookImage</b>	<b>Released</b>
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	1	FAMP And MySQL programming	21.00	1efecfcd022w44bh7ef7cf77ae947f.jpg	2022-01-22 12:55:13
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	3	phase	15.00	aa2037fb12a11e4b011f1e1a1a379.jpg	2022-01-22 12:53:53
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	8	March's MySQL	45.00	19394f4ee5041d4a4428307fabc256e.jpg	2022-01-21 22:12:11
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	10	WordPress for Beginners 2022 : A Visual Step-by-Step	190.00	144ab70fbew1cb5ff0c27aiae9fd510283.jpg	2022-01-22 12:46:07
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	12	WordPress Masters Guide	53.00	970031a658144f65a80f10386f7264.jpg	2022-01-22 12:46:03
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	13	Rich Dad Poor Dad: What the Rich Teach Their Kids	120.00	527fb1247a62w20d5ax0041a5b140.jpg	2022-01-22 12:58:39
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	15	The Girl Who Drank the Moon	280.00	fb16219fw1c35245w1fffa79320747.jpg	2022-01-22 12:52:31
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	16	C++ : The Complete Reference , 4th Edition	142.00	1079600126600101a390c336396.jpg	2022-01-23 12:55:36
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	17	ASP.NET Core 5 for Beginners	42.00	91b67001f1fb4fb12-M2729f7a0d9.jpg	2022-01-22 11:44:21
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	18	An Introduction to Database Systems	420.00	1079600126600101a390c336396.jpg	2022-05-08 21:52:46
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	19	Data Structure and Algorithmic Thinking with Python	250.00	1079600126600101a390c336396.jpg	2022-05-08 21:53:25
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	21	Data Structures and Algorithm Analysis in C++ - Ma	450.00	1079600126600101a390c336396.jpg	2022-05-08 21:54:07
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	22	Introduction to Machine Learning with Python	300.00	1079600126600101a390c336396.jpg	2022-05-09 21:04:37
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	23	Introduction to Machine Learning with Python	300.00	1079600126600101a390c336396.jpg	2022-05-08 21:55:37
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	24	Learning PHP, MySQL, JavaScript, CSS & HTML	250.00	1079600126600101a390c336396.jpg	2022-05-08 21:55:37
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	25	LUCIDIO	280.00	14111c-1-pymentikarmp.jpg	2022-05-08 21:56:15
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	26	Practical Introduction to Python 3	320.00	pythn basics.jpg	2022-05-08 21:56:37
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	27	Python for Data Analysis: Data Wrangling with Pandas	450.00	1079600126600101a390c336396.jpg	2022-05-08 21:57:09
<input type="checkbox"/>		<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	28	Python Programming For Beginners	320.00	Python Programming For Beginners.jpg	2022-05-08 21:57:27

- Categories Table Structure: - This table shows the category of books available in the library.

<input type="checkbox"/> Show all   Number of rows: 25 <input type="button" value="▼"/> Filter rows: Search this table Sort by key: None <input type="button" value="▼"/>						
<input type="checkbox"/> + Options <input type="button" value="← T →"/> <input type="button" value="▼ id"/> CategoryName Status CreationDate UpdationDate						
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	Romantic	1 2022-01-22 12:53:03 2022-01-22 12:53:03
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	Technology	1 2022-01-22 12:53:03 2022-01-22 12:53:03
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	Science	1 2022-01-22 12:53:03 2022-01-22 21:54:37
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	Management	1 2022-01-22 12:53:03 2022-01-22 21:54:35
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	General	1 2022-01-22 12:53:03 2022-01-22 21:54:40
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	Programming	1 2022-01-22 12:53:03 2022-01-22 21:54:42

Check all    With selected:

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

- Issued Book Table Structure: - This table shows the details of issued books from the library.

<input type="checkbox"/> Show all   Number of rows: 25 <input type="button" value="▼"/> Filter rows: Search this table Sort by key: None <input type="button" value="▼"/>						
<input type="checkbox"/> + Options <input type="button" value="← T →"/> <input type="button" value="▼ id"/> BookId StudentID IssuesDate ReturnDate RetrunStatus fine						
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	5 SID011	2022-01-22 11:15:57 NULL NULL NULL
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	1 SID002	2022-01-22 11:29:17 2022-01-22 11:48:08 1 0
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	10 SID009	2022-01-22 13:08:09 2022-01-22 13:08:54 1 0
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	11 SID009	2022-01-22 13:45:02 2022-01-22 13:45:23 1 0
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	1 SID012	2022-01-22 13:47:15 NULL NULL NULL
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	10 SID012	2022-01-22 13:48:08 2022-01-22 13:48:22 1 5
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	10 SID013	2022-05-08 13:58:47 2022-05-01 14:09:05 NULL NULL
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	14	15 SID013	2022-05-08 21:21:27 2022-05-08 21:23:26 1 10
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	15	8 SID013	2022-05-09 08:26:05 2022-05-09 08:26:33 1 15
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	16	11 SID013	2022-05-09 08:53:52 2022-05-09 08:57:03 1 15
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	17	3 SID002	2022-05-10 14:01:09 2022-05-10 14:04:09 1 35
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	18	12 SID013	2022-05-01 14:20:41 2022-05-11 12:26:50 1 35

Check all    With selected:

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

- Students Table Structure: - This table shows the details of students registered in the library.

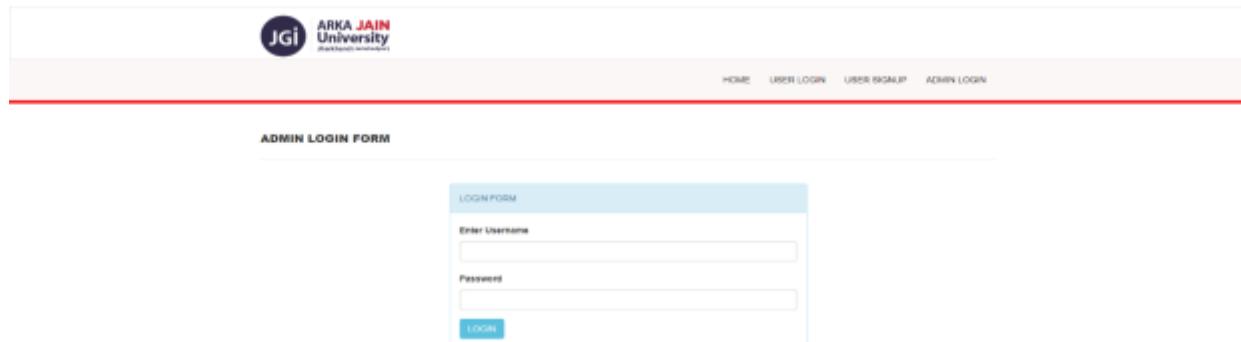
<input type="checkbox"/> Show all	Number of rows:	25	<input type="button" value="▼"/>	Filter rows	Search this table	Sort by key	None	<input type="button" value="▼"/>			
<b>* Options</b>											
#	id	StudentId	FullName	EmailId	MobileNumber	Password	Status	RegDate	UpdationDate		
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1 SID002	Rocky	Rocky@gmail.com	9865472555	f925916e2754e5e03f75dd58a5733251	1	2022-01-02 12:53:03	2022-05-13 10:40:54
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4 SID005	sdfsd	csdyd@sfks.com	8569710025	92228410fcfb072914e023160cf4ae0f	1	2022-01-02 12:53:03	2022-01-22 21:55:53
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8 SID009	test	test@gmail.com	2369874527	f925916e2754e5e03f75dd58a5733251	1	2022-01-02 12:53:03	2022-01-22 21:55:58
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9 SID010	Amit	amit@gmail.com	8586866224	f925916e2754e5e03f75dd58a5733251	1	2022-01-02 12:53:03	2022-01-22 21:56:02
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10 SID011	Seema	seema@gmail.com	4672423754	f925916e2754e5e03f75dd58a5733251	1	2022-01-02 12:53:03	2022-05-13 10:39:40
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11 SID012	Ravi	Ravi@test.com	1234569876	f925916e2754e5e03f75dd58a5733251	1	2022-01-22 13:46:10	2022-05-13 10:40:02
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12 SID013	Manish Kumar	manish@gmail.com	9608602620	59c95109ac895fcc1c6e1c3fd067e244	1	2022-05-08 13:55:12	NULL
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13 SID014	Deepshikha	deepshikha@gmail.com	7488824324	b7d2d406cf50540c4#302592cb42690	1	2022-05-09 08:29:19	NULL
<input type="button" value="Up"/>	<input type="checkbox"/> Check all	With selected	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	<input type="button" value="Export"/>					
<input type="checkbox"/> Show all	Number of rows:	25	<input type="button" value="▼"/>	Filter rows	Search this table	Sort by key	None	<input type="button" value="▼"/>			

# Chapter 4

## SYSTEM TESTING AND PROGRAM CODE

### 4.1 Screenshots

- Admin Login Form



The screenshot shows the 'ADMIN LOGIN FORM' page. At the top, there is a logo for 'ARKA JAIN University' and navigation links for 'HOME', 'USER LOGIN', 'USER REGISTRATION', and 'ADMIN LOGIN'. Below this, the form itself is titled 'LOGIN FORM' and contains fields for 'Enter Username' and 'Password', along with a 'LOGIN' button.



The screenshot shows the 'ADMIN DASHBOARD'. At the top, there is a logo for 'ARKA JAIN University' and a 'LOGOUT' button. Below this, the dashboard features several cards with icons and statistics: '21' (Newly Added), '3' (Issued New Bookmarks Yet), '8' (Approved Books), '23' (Library Users), and '2' (Total Programs). At the bottom right, there is a copyright notice: '© 2022 Library Management System'.

- Admin Dashboard

➤ Add Category

The screenshot shows the 'ADD CATEGORY' form. At the top, there is a logo for 'ARKA JAIN University' and a 'LOG ME OUT' button. Below the header, the menu includes DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REQ STUDENTS, and CHANGE PASSWORD. The main form has a 'Category Info' tab selected. It contains fields for 'Category Name' (with placeholder 'Category Name'), 'Status' (radio buttons for 'active' and 'inactive', with 'active' selected), and a 'Create' button.

➤ Manage Category

The screenshot shows the 'MANAGE CATEGORIES' page. At the top, there is a logo for 'ARKA JAIN University' and a 'LOG ME OUT' button. Below the header, the menu includes DASHBOARD, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REQ STUDENTS, and CHANGE PASSWORD. The main content area displays a table titled 'Categories Listing' with 10 items per page. The table columns are: #, Category, Status, Creation Date, Update Date, and Action. The categories listed are: Numbers, Technology, Science, Management, General, Programming, and Home. Each row has a green 'Active' status indicator, a creation date (e.g., 2022-01-22 12:33:03), an update date (e.g., 2022-01-22 12:33:03), and two action buttons: 'Edit' (blue) and 'Delete' (red). A search bar is located at the top right of the table. At the bottom of the table, it says 'Showing 1 to 7 of 7 entries' and has 'Previous' and 'Next' buttons.

## ➤ Add Author

The screenshot shows the 'ADD AUTHOR' form. It has two input fields: 'Author ID' and 'Author Name'. Below the 'Author Name' field is a teal-colored 'Save' button. At the bottom right of the form area, there is a copyright notice: '© 2023 Library Management System'.

## ➤ Manage Authors

The screenshot shows a table titled 'Authors Listing' with 10 entries per page. The columns are: #, Author, Creation Date, Update Date, and Action. Each row contains a blue 'Edit' button and a red 'Delete' button. The authors listed are: Harish Achrekar, G. T. Patil, Neeravita Kachwade, Animesh D. Patel & Nitin Patel, Chintan Agarwal, Preeti Patel, Vaishnavi P. Kulkarni, Ankita Patel Mehta, Neel Python Togari, and Hitesh Mistry. At the bottom left, it says 'Showing 1 to 20 of 21 entries'. At the bottom right, there are navigation buttons for 'Previous', 'Next', and a page number '2'. The copyright notice '© 2023 Library Management System' is at the bottom right.

#	Author	Creation Date	Update Date	Action
10	Harish Achrekar	2023-01-02 10:00:00		<a href="#">Edit</a> <a href="#">Delete</a>
11	G. T. Patil	2023-09-08 21:00:00		<a href="#">Edit</a> <a href="#">Delete</a>
12	Neeravita Kachwade	2023-09-08 21:00:30		<a href="#">Edit</a> <a href="#">Delete</a>
13	Animesh D. Patel & Nitin Patel	2023-05-06 21:00:41		<a href="#">Edit</a> <a href="#">Delete</a>
14	Chintan Agarwal	2022-09-08 21:00:00		<a href="#">Edit</a> <a href="#">Delete</a>
15	Preeti Patel	2022-09-08 21:00:26		<a href="#">Edit</a> <a href="#">Delete</a>
16	Vaishnavi P. Kulkarni	2023-09-08 21:00:46		<a href="#">Edit</a> <a href="#">Delete</a>
17	Ankita Patel Mehta	2022-09-08 21:10:00		<a href="#">Edit</a> <a href="#">Delete</a>
18	Neel Python Togari	2023-09-08 21:10:30		<a href="#">Edit</a> <a href="#">Delete</a>
19	Hitesh Mistry	2023-01-08 21:10:54		<a href="#">Edit</a> <a href="#">Delete</a>

## ➤ Add Book

The screenshot shows the 'ADD BOOK' form in the ARKA JAIN University Library Management System. The form includes fields for Book Info (Book Name, Author, Price), Category (Science & Technology), ISBN Number, and Book Picture (Choose File). A 'Save' button is at the bottom.

ARKA JAIN University

DASHBOARD CATEGORIES AUTHORS BOOKS ISSUE BOOKS REQUESTS CHANGE PASSWORD

ADD BOOK

Book Info

Book Name:

Category: Science & Technology

Author:

ISBN Number:

Price:

Book Picture:

Save

© 2022 Library Management System

## ➤ Manage Book

The screenshot shows the 'MANAGE BOOKS' page in the ARKA JAIN University Library Management System. It displays a table of books with columns for Book Name, Category, Author, ISBN, Price, and Actions (Edit, Delete).

Book Name	Category	Author	ISBN	Price	Action
Data Structures and Algorithms: Theory and Code Examples and Experiments Updated	Programming	Ramkrishna Hegde/Kiran	9789389270001	200.00	<a href="#">Edit</a> <a href="#">Delete</a>
Data Structures and Algorithms Analysis in C++	Programming	Mark Allen Weiss	9780134685184	200.00	<a href="#">Edit</a> <a href="#">Delete</a>
Introduction to Machine Learning with Python	Programming	Ashok Cuttler & Mark Girolami	9781491962721	200.00	<a href="#">Edit</a> <a href="#">Delete</a>
Introduction to Machine Learning	Programming	Eliazer Lapin et al.	9781491962738	200.00	<a href="#">Edit</a> <a href="#">Delete</a>
Learning PHP MySQL, Laravel 5.4 & OOP 2	Programming	Rakesh Kumar	9789389270018	200.00	<a href="#">Edit</a> <a href="#">Delete</a>

➤ Issue a New Book

The screenshot shows the 'ISSUE A NEW BOOK' form. It includes fields for 'Issue Date (DD/MM/YY)', 'Issueer ID', 'ISBN/Number or Book Title', and a 'Submit' button. The background features the university's logo and navigation menu.

➤ Manage Issued Book

The screenshot shows the 'MANAGE ISSUED BOOKS' page displaying a table of issued books. The columns include Book ID, Name, Book Name, ISBN, Issue Date, Return Date, and Action. The table lists 10 entries, each with a blue 'Edit' button. The background features the university's logo and navigation menu.

Book ID	Name	Book Name	ISBN	Issue Date	Return Date	Action
1	Shubham Kumar	Java Programming Guide	9789386230107	2022-05-10	2022-05-11	<button>Edit</button>
2	Shubham Kumar	2021 IITJEE Class 11 Physics	9788121932919	2022-05-11	2022-05-12	<button>Edit</button>
3	Shubham Kumar	An Introduction to Interactive Systems	9781785420222	2022-05-11	2022-05-11	<button>Edit</button>
4	Harley	poetry	9780141391407	2022-05-10	2022-05-10	<button>Edit</button>
5	Shubham Kumar	STRUCTURE: Code in the Neighborhood	9788121932919	2022-05-10	2022-05-10	<button>Edit</button>
6	Shubham Kumar	How Good Does It Have To Be? Tech Savvy Thinkers Agree Money Isn't The Only Thing That Matters	9781785420222	2022-05-09	2022-05-09	<button>Edit</button>
7	Shubham Kumar	Introduction to Machine Learning with Python	9781491973050	2022-05-08	2022-05-08	<button>Edit</button>
8	Harley	C++: The Complete Reference, 6th Edition	1571430171	2022-05-08	2022-05-09	<button>Edit</button>
9	Harley	Cloud Computing: Foundations, 4th Edition	1571430171	2022-05-08	2022-05-09	<button>Edit</button>
10	Harley	Python Programming	9781491973050	2022-05-08	2022-05-09	<button>Edit</button>

➤ Manage Registered Student

#	Student ID	Student Name	Email ID	Mobile Number	Reg Date	Status	Action
1	R0001	Wick	wick@gmail.com	9899976543	2023-01-02 10:00:00	Active	<button>Update</button> <button>Delete</button>
2	R0002	Wick	wick@gmail.com	9899971009	2023-01-02 10:00:00	Deactivated	<button>Update</button> <button>Delete</button>
3	R0003	Wick	wick@gmail.com	9899974007	2023-01-02 10:00:00	Deactivated	<button>Update</button> <button>Delete</button>
4	R0004	Wick	wick@gmail.com	9899984004	2023-01-02 10:00:00	Active	<button>Update</button> <button>Delete</button>
5	R0005	Wick	wick@gmail.com	4473400754	2023-01-02 10:00:00	Active	<button>Update</button> <button>Delete</button>
6	R0006	Wick	wick@gmail.com	1111111111	2023-01-02 10:00:00	Active	<button>Update</button> <button>Delete</button>
7	R0007	Wick	wick@gmail.com	9899997701	2023-01-02 10:00:00	Active	<button>Update</button> <button>Delete</button>
8	R0008	Wick	wick@gmail.com	7466664424	2023-01-02 10:00:00	Active	<button>Update</button> <button>Delete</button>

Showing 1 to 8 of 8 entries

Previous 1 Next

➤ Admin Change Password

ADMIN CHANGE PASSWORD

Change Password

Current Password:

Enter Password:

Confirm Password:

Change

➤ User Login



➤ User Dashboard



## ➤ Issued Books

The screenshot shows the 'Issued Books' section of the library management system. At the top, there's a header with the JGI ARKA JAIN University logo, a 'LOG OUT' button, and navigation links for 'DASHBOARD', 'ISSUED BOOKS', and 'ACCOUNT'. Below the header is a table titled 'MANAGE ISSUED BOOKS' with the following data:

Sr.	Book Name	ISBN	Issue Date	Return Date	Fine
1	HeadFirst: MySQL Core	9789386740100	2023-05-01 12:30:45	2023-05-10 12:45:00	Rs. 10.00
2	.NET Core 5 In Depth	9789386740100	2023-05-10 12:45:14	2023-05-11 12:46:14	Rs. 10.00
3	An Introduction to Database Systems	9780134670200	2023-05-01 14:30:41	2023-05-11 10:28:58	Rs. 10.00
4	ASP.NET Core 5 API Responses	9789386740100	2023-05-01 09:15:15	2023-05-09 09:17:00	Rs. 10.00
5	Rich-User-Interface: Create Rich User Interface Using React.js	9781736000000	2023-05-01 09:15:20	2023-05-08 09:28:00	Rs. 10.00
6	Introduction to Machine Learning with Python	9789386740100	2023-05-01 11:15:11	2023-05-09 11:23:00	Rs. 10.00
7	C#: The Complete Reference, 2nd Edition	9789386740100	2023-05-01 12:30:45	2023-05-07 12:38:00	Rs. 10.00

At the bottom right of the page, there's a footer note: © 2023 Library Management System.

## ➤ User Profile

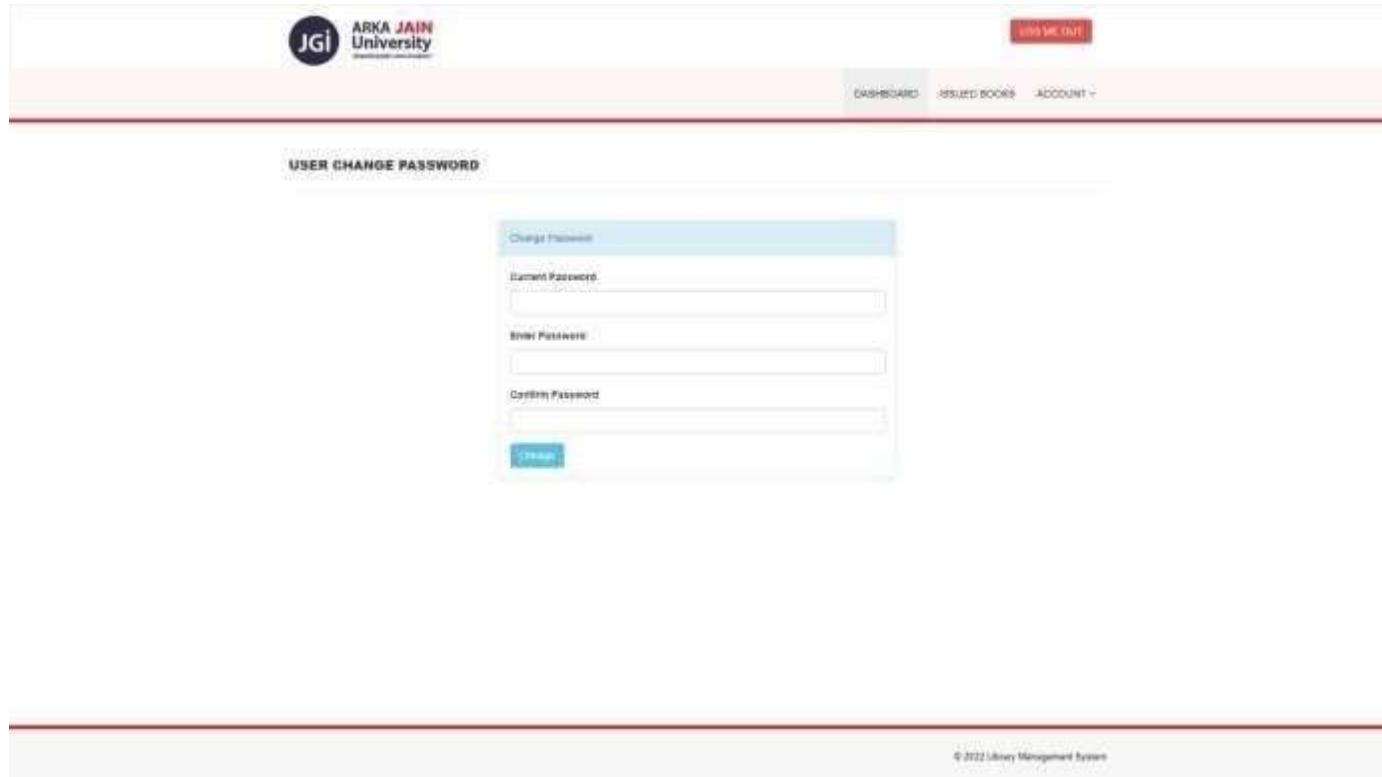
The screenshot shows the 'My Profile' section of the library management system. At the top, there's a header with the JGI ARKA JAIN University logo, a 'LOG OUT' button, and navigation links for 'DASHBOARD', 'ISSUED BOOKS', and 'ACCOUNT'. Below the header is a form titled 'MY PROFILE' with the following fields:

<b>User Profile</b>
Student ID : 101010101010
Reg Date : 2023-05-01 15:15:15
Profile Status : Active
<b>Enter Full Name</b>
Student Name : <input type="text"/>
<b>Mobile Number</b>
Mobile Number : <input type="text"/>
<b>Email</b>
Email : <input type="text"/> student@gmail.com

Below the form are two blue buttons: 'Edit Profile' and 'Logout'.

At the bottom right of the page, there's a footer note: © 2023 Library Management System.

➤ User Change Password



The screenshot shows the 'ARKA JAIN University' library management system interface. At the top, there is a navigation bar with the university logo, a search bar containing 'LIBRARY MANAGEMENT SYSTEM', and links for 'LOG IN' and 'SIGN UP'. Below the navigation bar, a red horizontal bar contains links for 'DASHBOARD', 'ISSUED BOOKS', and 'ACCOUNT'. The main content area is titled 'USER CHANGE PASSWORD' and features a form with three input fields: 'Current Password', 'Enter Password', and 'Confirm Password'. A blue 'Change' button is located at the bottom of the form. At the bottom right of the page, there is a copyright notice: '© 2022 Library Management System'.

## 4.2 Coding

### Index.php

```
<?php
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Online Library Management System | </title>
    <!-- BOOTSTRAP CORE STYLE -->
    <link href="assets/css/bootstrap.css" rel="stylesheet" />
    <!-- FONT AWESOME STYLE -->
    <link href="assets/css/font-awesome.css" rel="stylesheet" />
    <!-- CUSTOM STYLE -->
    <link href="assets/css/style.css" rel="stylesheet" />
    <!-- GOOGLE FONT -->
    <link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

</head>
<body>
    <!-- -----MENU SECTION START-->
    <?php include('includes/header.php');?>
    <!-- MENU SECTION END-->
    <div class="content-wrapper">
        <div class="container">
            <!--Slider --- >
            <div class="row">
                <div class="col-md-10 col-sm-8 col-xs-12 col-md-offset-1">
                    <div id="carousel-example" class="carousel slide slide-bdr" data-ride="carousel" >
```

```

<div class="row pad-botm">
<div class="col-md-12">
<h4 class="header-line">USER LOGIN</h4>
</div>
</div>
<a name="ulogin"></a>
<!--LOGIN PANEL START-->
<div class="row">
<div class="col-md-6 col-sm-6 col-xs-12 col-md-offset-3" >
<div class="panel panel-info">
<div class="panel-heading">
    LOGIN FORM
</div>
<div class="panel-body">
<form role="form" method="post">

<div class="form-group">
<label>Enter Email id</label>
<input class="form-control" type="text" name="emailid" required autocomplete="off" />
</div>

<div class="form-group">
<label>Password</label>
<input class="form-control" type="password" name="password" required autocomplete="off" />
<p class="help-block"><a href="user-forgot-password.php">Forgot Password</a></p>
</div>

<button type="submit" name="login" class="btn btn-info">LOGIN </button> | <a href="signup.php">Not
Register Yet</a>
</form>
</div>
</div>
</div>
</div>

```

```

<!--LOGIN PABEL END-->

</div>
</div>

<!-- CONTENT-WRAPPER SECTION END-->

<?php include('includes/footer.php');?>
<!-- FOOTER SECTION END-->
<script src="assets/js/jquery-1.10.2.js"></script>
<!-- BOOTSTRAP SCRIPTS -->
<script src="assets/js/bootstrap.js"></script>
<!-- CUSTOM SCRIPTS -->
<script src="assets/js/custom.js"></script>

</body>
</html>

```

## **Admin-login.php**

```

<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['login'])==0)
{
header('location:index.php');
}
else{?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta charset="utf-8" />
<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />

```

```

<meta name="description" content="" />
<meta name="author" content="" />
<title>Online Library Management System | User Dash Board</title>
<!-- BOOTSTRAP CORE STYLE -->
<link href="assets/css/bootstrap.css" rel="stylesheet" />
<!-- FONT AWESOME STYLE -->
<link href="assets/css/font-awesome.css" rel="stylesheet" />
<!-- CUSTOM STYLE -->
<link href="assets/css/style.css" rel="stylesheet" />
<!-- GOOGLE FONT -->
<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

</head>
<body>
    <!-- MENU SECTION START-->
<?php include('includes/header.php');?>
<!-- MENU SECTION END-->
    <div class="content-wrapper">
        <div class="container">
            <div class="row pad-botm">
                <div class="col-md-12">
                    <h4 class="header-line">User DASHBOARD</h4>
                    </div>
                </div>
            <div class="row">
                <div class="col-md-4 col-sm-4 col-xs-6">
                    <div class="alert alert-success back-widget-set text-center">
                        <a href="listed-books.php">
                    <?php
                        $sql = "SELECT id from tblbooks ";
                        $query = $dbh -> prepare($sql);

```

```

<?php
$rst=0;
$sid=$_SESSION['stdid'];
$sql2 ="SELECT id from tblissuedbookdetails where StudentID=:sid and (RetrunStatus=:rst || RetrunStatus
is null || RetrunStatus=");
$query2 = $dbh -> prepare($sql2);
$query2->bindParam(':sid',$sid,PDO::PARAM_STR);
$query2->bindParam(':rst',$rst,PDO::PARAM_STR);
$query2->execute();
$results2=$query2->fetchAll(PDO::FETCH_OBJ);
$returnedbooks=$query2->rowCount();
?>

```

```

<h3><?php echo htmlentities($returnedbooks);?></h3>
Books Not Returned Yet
</div>
</div>
<div class="col-md-4 col-sm-4 col-xs-6">
<div class="alert alert-success back-widget-set text-center">
<a href="issued-books.php">
<h3>&nbsp;</h3>
Issued Books
</div></div></a>
</div>
</div>
</div>
<!-- CONTENT-WRAPPER SECTION END-->
<?php include('includes/footer.php');?>
<!-- FOOTER SECTION END-->
<!-- JAVASCRIPT FILES PLACED AT THE BOTTOM TO REDUCE THE LOADING TIME -->
<!-- CORE JQUERY -->
<script src="assets/js/jquery-1.10.2.js"></script>

```

```

<!-- BOOTSTRAP SCRIPTS -->
<script src="assets/js/bootstrap.js"></script>
<!-- CUSTOM SCRIPTS -->
<script src="assets/js/custom.js"></script>
</body>
</html>
<?php } ?>

```

## **Book.php**

```

<?php include 'includes/session.php'; ?>
<?php
$catid = 0;
$where = "";
if(isset($_GET['category'])){
    $catid = $_GET['category'];
    $where = 'WHERE books.category_id = '.$catid;
}
?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue sidebar-mini">
<div class="wrapper">

<?php include 'includes/navbar.php'; ?>
<?php include 'includes/menubar.php'; ?>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <section class="content-header">
        <h1>
            Book List
        <th>Title</th>

```

```

<th>Author</th>
<th>Publisher</th>
<th>Status</th>
<th>Tools</th>
</thead>
<tbody>
<?php
    $sql = "SELECT *, books.id AS bookid FROM books LEFT JOIN category ON
category.id=books.category_id $where";
    $query = $conn->query($sql);
    while($row = $query->fetch_assoc()){
        if($row['status']){
            $status = '<span class="label label-danger">borrowed</span>';
        }
        else{
            $status = '<span class="label label-success">available</span>';
        }
        echo "
<tr>
<td>".$row['name']."'</td>
<td>".$row['isbn']."'</td>
<td>".$row['title']."'</td>
<td>".$row['author']."'</td>
<td>".$row['publisher']."'</td>
<td>".$status."'</td>
<td>
<button class='btn btn-success btn-sm edit btn-flat' data-id='".$row['bookid']."'><i
class='fa fa-edit'></i> Edit</button>
<button class='btn btn-danger btn-sm delete btn-flat' data-id='".$row['bookid']."'><i
class='fa fa-trash'></i> Delete</button>
</td>
</tr>

```

```

        ";
    }
?>
</tbody>
</table>
</div>
<?php include 'includes/footer.php'; ?>
<?php include 'includes/book_modal.php'; ?>
</div>
<?php include 'includes/scripts.php'; ?>
<script>
$(function(){
    $('#select_category').change(function(){
        var value = $(this).val();
        if(value == 0){
            window.location = 'book.php';
        }
        else{
            window.location = 'book.php?category='+value;
        }
    });
});

$(document).on('click', '.edit', function(e){
    e.preventDefault();
    $('#edit').modal('show');
    var id = $(this).data('id');

```

```
    getRow(id);  
});  
  
}  
});  
}  
</script>  
</body>  
</html>
```

## **Issued-book.php**

```
<?php  
session_start();  
error_reporting(0);  
include('includes/config.php');  
if(strlen($_SESSION['login'])==0)  
{  
header('location:index.php');  
}  
else{  
?>  
<!DOCTYPE html>  
<html xmlns="http://www.w3.org/1999/xhtml">  
<head>  
    <meta charset="utf-8" />  
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />  
    <meta name="description" content="" />  
    <meta name="author" content="" />  
    <title>Online Library Management System | Issued Books</title>  
    <!-- BOOTSTRAP CORE STYLE -->  
    <link href="assets/css/bootstrap.css" rel="stylesheet" />  
    <!-- FONT AWESOME STYLE -->
```

```

<link href="assets/css/font-awesome.css" rel="stylesheet" />
<!-- DATATABLE STYLE -->
<link href="assets/js/dataTables/dataTables.bootstrap.css" rel="stylesheet" />
<!-- CUSTOM STYLE -->
<link href="assets/css/style.css" rel="stylesheet" />
<!-- GOOGLE FONT -->
<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

</head>
<body>
<!-- MENU SECTION START-->
<?php include('includes/header.php');?>
    <h4 class="header-line">Issued Books</h4>
</div>
    <div class="row">
        <div class="col-md-12">
            <!-- Advanced Tables -->
            <div class="panel panel-default">
                <div class="panel-heading">
                    Issued Books
                </div>
                <div class="panel-body">
                    <div class="table-responsive">
                        <table class="table table-striped table-bordered table-hover" id="dataTables-example">
                            <thead>
                                <tr>
                                    <th>#</th>
                                    <th>Book Name</th>
                                    <th>ISBN </th>
                                    <th>Issued Date</th>
                                    <th>Return Date</th>
                                    <th>Fine</th>

```

```

        </tr>
    </thead>
    <tbody>
        <tr class="odd gradeX">
            <td class="center"><?php echo htmlentities($cnt);?></td>
            <td class="center"><?php echo htmlentities($result->BookName);?></td>
            <td class="center"><?php echo htmlentities($result->ISBNNumber);?></td>
            <td class="center"><?php echo htmlentities($result->IssuesDate);?></td>
            <td class="center"><?php if($result->ReturnDate=="") {
                {?>
                    <span style="color:red">
                        <?php echo htmlentities("Not Return Yet"); ?>
                    </span>
                <?php } else {
                    echo htmlentities($result->ReturnDate);
                }
            ?></td>
            <td class="center"><?php echo htmlentities($result->fine);?></td>
            <td><a href='invoice.php?id=<?php echo htmlentities($result->rid); ?>'>
                <span class='uk-badge uk-badge-success'>Get Reciept</span>
            </a></td>
        </tr>
        <?php $cnt=$cnt+1;?>
    </tbody>
    </table>
</div>

</div>
<!--End Advanced Tables -->

```

```

        </div>
    </div>
</div>
</div>
</div>

<!-- CONTENT-WRAPPER SECTION END--&gt;
&lt;?php include('includes/footer.php');?&gt;
<!-- FOOTER SECTION END--&gt;
<!-- JAVASCRIPT FILES PLACED AT THE BOTTOM TO REDUCE THE LOADING TIME --&gt;
<!-- CORE JQUERY --&gt;
&lt;script src="assets/js/jquery-1.10.2.js"&gt;&lt;/script&gt;
<!-- BOOTSTRAP SCRIPTS --&gt;
&lt;script src="assets/js/bootstrap.js"&gt;&lt;/script&gt;
<!-- DATATABLE SCRIPTS --&gt;
&lt;script src="assets/js/dataTables/jquery.dataTables.js"&gt;&lt;/script&gt;
&lt;script src="assets/js/dataTables/dataTables.bootstrap.js"&gt;&lt;/script&gt;
<!-- CUSTOM SCRIPTS --&gt;
&lt;script src="assets/js/custom.js"&gt;&lt;/script&gt;

&lt;/body&gt;
&lt;/html&gt;
&lt;?php } ?&gt;</pre>

```

## **Home.php**

```

<?php include 'includes/session.php'; ?>
<?php
include 'includes/timezone.php';
$today = date('Y-m-d');
$year = date('Y');
if(isset($_GET['year'])) {
```

```

$year = $_GET['year'];
}

?>

<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue sidebar-mini">
<div class="wrapper">

<?php include 'includes/navbar.php'; ?>
<?php include 'includes/menubar.php'; ?>

<!-- Content Wrapper. Contains page content --&gt;
&lt;div class="content-wrapper"&gt;
    <!-- Content Header (Page header) --&gt;
    &lt;section class="content-header"&gt;
        &lt;h1&gt;
            Dashboard
        &lt;/h1&gt;
        &lt;ol class="breadcrumb"&gt;
            &lt;li&gt;&lt;a href="#"&gt;&lt;i class="fa fa-dashboard"&gt;&lt;/i&gt; Home&lt;/a&gt;&lt;/li&gt;
            &lt;li class="active"&gt;Dashboard&lt;/li&gt;
        &lt;/ol&gt;
    &lt;/section&gt;
    <!-- Main content --&gt;
    &lt;section class="content"&gt;
        &lt;?php
            if(isset($_SESSION['error'])){
                echo "
                    &lt;div class='alert alert-danger alert-dismissible'&gt;
                        &lt;button type='button' class='close' data-dismiss='alert' aria-hidden='true'&gt;&amp;times;&lt;/button&gt;
                        &lt;h4&gt;&lt;i class='icon fa fa-warning'&gt;&lt;/i&gt; Error!&lt;/h4&gt;
                        ".$_SESSION['error']."
                    &lt;/div&gt;
            }
        &lt;?php
    &lt;/section&gt;
&lt;/div&gt;
</pre>

```

```

<a href="book.php" class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
</div>
</div>
<!-- ./col -->
<div class="col-lg-3 col-xs-6">
<!-- small box -->
<div class="small-box bg-green">
<div class="inner">
<?php
$sql = "SELECT * FROM students";
$query = $conn->query($sql);

echo "<h3>".$query->num_rows."</h3>";
?>
<p>Total Students</p>
</div>
<div class="icon">
<i class="fa fa-graduation-cap"></i>
</div>
<a href="student.php" class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
</div>
</div>
<!-- ./col -->
<div class="col-lg-3 col-xs-6">
<!-- small box -->
<div class="small-box bg-yellow">
<div class="inner">
<?php
$sql = "SELECT * FROM returns WHERE date_return = '$today'";

```

```
<a href="borrow.php" class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
</div>
</div>
<!-- ./col -->
</div>
<!-- /.row -->
<div class="row">
<div class="col-xs-12">
<div class="box">
<div class="box-header with-border">
<h3 class="box-title">Monthly Transaction Report</h3>
<div class="box-tools pull-right">
<form class="form-inline">
<div class="form-group">
<label>Select Year: </label>
<select class="form-control input-sm" id="select_year">
<?php
for($i=2015; $i<=2065; $i++){
$selected = ($i==$year)?'selected':'';
echo "
<option value='".$i."' ".$selected.">".$i."</option>
";
}
?>
</select>
</div>
</form>
</div>
</div>
<div class="box-body">
datasets: [
```

```

{
    label      : 'Borrow',
    fillColor   : 'rgba(210, 214, 222, 1)',
    strokeColor  : 'rgba(210, 214, 222, 1)',
    pointColor   : 'rgba(210, 214, 222, 1)',
    pointStrokeColor : '#c1c7d1',
    pointHighlightFill : '#fff',
    pointHighlightStroke: 'rgba(220,220,220,1)',
    data        : <?php echo $borrow; ?>
},
{
    label      : 'Return',
    fillColor   : 'rgba(60,141,188,0.9)',
    strokeColor  : 'rgba(60,141,188,0.8)',
    pointColor   : '#3b8bba',
    pointStrokeColor : 'rgba(60,141,188,1)',
    pointHighlightFill : '#fff',
    pointHighlightStroke: 'rgba(60,141,188,1)',
    data        : <?php echo $return; ?>
}
]
}

barChartData.datasets[1].fillColor = '#00a65a'
barChartData.datasets[1].strokeColor = '#00a65a'
barChartData.datasets[1].pointColor = '#00a65a'

var barChartOptions          = {
    //Boolean - Whether the scale should start at zero, or an order of magnitude down from the lowest value
    scaleBeginAtZero     : true,
    //Boolean - Whether grid lines are shown across the chart
    scaleShowGridLines   : true,
    //String - Colour of the grid lines
    scaleGridLineColor   : 'rgba(0,0,0,.05)',
```

```

//Number - Width of the grid lines
scaleGridLineWidth : 1,
//Boolean - Whether to show horizontal lines (except X axis)
scaleShowHorizontalLines: true,
//Boolean - Whether to show vertical lines (except Y axis)
scaleShowVerticalLines : true,
//Boolean - If there is a stroke on each bar
barShowStroke : true,
//Number - Pixel width of the bar stroke
barStrokeWidth : 2,
//Number - Spacing between each of the X value sets
barValueSpacing : 5,
//Number - Spacing between data sets within X values
barDatasetSpacing : 1,
//String - A legend template
legendTemplate : '<ul class="<%name.toLowerCase()%>-legend"><% for (var i=0; i<datasets.length; i++){ %><li><span style="background-color:<%=datasets[i].fillColor%>"></span><%if(datasets[i].label){ %><%=datasets[i].label%><% } %></li><% }%></ul>',
//Boolean - whether to make the chart responsive
: true,
maintainAspectRatio : true
}
barChartOptions.datasetFill = false
var myChart = barChart.Bar(barChartData, barChartOptions)
document.getElementById('legend').innerHTML = myChart.generateLegend();
});
</script>
<script>
$(function(){
$('#select_year').change(function(){
window.location.href = 'home.php?year=' + $(this).val();

```

```
});  
});  
</script>  
</body>  
</html>
```

## Login.php

```
<?php  
session_start();  
include 'includes/conn.php';  
  
if(isset($_POST['login'])){  
    $username = $_POST['username'];  
    $password = $_POST['password'];  
  
    $sql = "SELECT * FROM admin WHERE username = '$username'";  
    $query = $conn->query($sql);  
  
    if($query->num_rows < 1){  
        $_SESSION['error'] = 'Cannot find account with the username';  
    }  
    else{  
        $row = $query->fetch_assoc();  
        if(password_verify($password, $row['password'])){  
            $_SESSION['admin'] = $row['id'];  
        }  
        else{  
            $_SESSION['error'] = 'Incorrect password';  
        }  
    }  
}
```

```

        }
    else{
        $_SESSION['error'] = 'Input admin credentials first';
    }

    header('location: index.php');

?>

Logout.php

<?php

    session_start();
    session_destroy();

    header('location: index.php');

?>

```

## **Dashboard.php**

```

<?php

session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['login'])==0)
{
header('location:index.php');
}
else{?>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Online Library Management System | User Dash Board</title>

```

```

<!-- BOOTSTRAP CORE STYLE -->
<link href="assets/css/bootstrap.css" rel="stylesheet" />
<!-- FONT AWESOME STYLE -->
<link href="assets/css/font-awesome.css" rel="stylesheet" />
<!-- CUSTOM STYLE -->
<link href="assets/css/style.css" rel="stylesheet" />
<!-- GOOGLE FONT -->
<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

</head>
<body>
    <!---- MENU SECTION START-->
    <?php include('includes/header.php');?>
    <!-- MENU SECTION END-->
    <div class="content-wrapper">
        <div class="container">
            <div class="row pad-botm">
                <div class="col-md-12">
                    <h4 class="header-line">User DASHBOARD</h4>
                    </div>
                </div>
                <div class="row">
                    <div class="col-md-4 col-sm-4 col-xs-6">
                        <div class="alert alert-success back-widget-set text-center">
                            <a href="listed-books.php">
                        <?php
                            <div class="col-md-4 col-sm-4 col-xs-6">
                                <div class="alert alert-success back-widget-set text-center">
                                    <a href="issued-books.php">
                                    <h3>&nbsp;</h3>

```

## Issued Books

```
</div></div></a>

</div>
</div>
</div>

<!-- CONTENT-WRAPPER SECTION END-->

<?php include('includes/footer.php');?>
    <!-- FOOTER SECTION END-->
    <!-- JAVASCRIPT FILES PLACED AT THE BOTTOM TO REDUCE THE LOADING TIME -->
    <!-- CORE JQUERY -->
    <script src="assets/js/jquery-1.10.2.js"></script>
    <!-- BOOTSTRAP SCRIPTS -->
    <script src="assets/js/bootstrap.js"></script>
    <!-- CUSTOM SCRIPTS -->
    <script src="assets/js/custom.js"></script>
</body>
</html>
<?php } ?>
```

## Student.php

```
<?php include 'includes/session.php'; ?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue sidebar-mini">
<div class="wrapper">

    <?php include 'includes/navbar.php'; ?>
    <?php include 'includes/menubar.php'; ?>

    <!-- Content Wrapper. Contains page content -->
    <div class="content-wrapper">
        <!-- Content Header (Page header) -->
```

```

<section class="content-header">
    <h1>
        Student List
    </h1>
    <ol class="breadcrumb">
        <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
        <li>Students</li>
        <li class="active">Student List</li>
    </ol>
</section>
<!-- Main content --&gt;
&lt;section class="content"&gt;
    &lt;?php
        if(isset($_SESSION['error'])){
            echo "
                &lt;div class='alert alert-danger alert-dismissible'&gt;
                    &lt;button type='button' class='close' data-dismiss='alert' aria-hidden='true'&gt;&amp;times;&lt;/button&gt;
                    &lt;h4&gt;&lt;i class='icon fa fa-warning'&gt;&lt;/i&gt; Error!&lt;/h4&gt;
                    \".
                    $_SESSION['error'].
                &lt;/div&gt;
            ";
            unset($_SESSION['error']);
        }
        if(isset($_SESSION['success'])){
            echo "
                &lt;div class='alert alert-success alert-dismissible'&gt;
                    &lt;button type='button' class='close' data-dismiss='alert' aria-hidden='true'&gt;&amp;times;&lt;/button&gt;
                    &lt;h4&gt;&lt;i class='icon fa fa-check'&gt;&lt;/i&gt; Success!&lt;/h4&gt;
                    \".
                    $_SESSION['success'].
                &lt;/div&gt;
            ";
            unset($_SESSION['success']);
        }
    &lt;?php
</pre>

```

```

        <a href="#edit_photo" data-toggle='modal' class='pull-right photo' data-
id='".$row['studid']."'><span class='fa fa-edit'></span></a>
        ";
    }
?>
</tbody>
</table>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
<?php include 'includes/footer.php'; ?>
<?php include 'includes/student_modal.php'; ?>
</div>
<?php include 'includes/scripts.php'; ?>
<script>
$(function(){
    $(document).on('click', '.edit', function(e){
        e.preventDefault();
        $('#edit').modal('show');
        var id = $(this).data('id');
        getRow(id);
    });
    $(document).on('click', '.delete', function(e){
        e.preventDefault();
        $('#delete').modal('show');
        var id = $(this).data('id');
        getRow(id);
    });
    $(document).on('click', '.photo', function(e){

```

```

e.preventDefault();

var id = $(this).data('id');

getRow(id);

});

});

function getRow(id){

$.ajax({

type: 'POST',

url: 'student_row.php',

data: {id:id},

dataType: 'json',

success: function(response){

$('.studid').val(response.studid);

$('#edit_firstname').val(response.firstname);

$('#edit_lastname').val(response.lastname);

$('#selcourse').val(response.course_id);

$('#selcourse').html(response.code);

$('.del_stu').html(response.firstname+' '+response.lastname);

}

});

}

});

</script>

</body>

</html>

```

## Course.php

```

<?php include 'includes/session.php'; ?>

<?php include 'includes/header.php'; ?>

<body class="hold-transition skin-blue sidebar-mini">

<div class="wrapper">

<?php include 'includes/navbar.php'; ?>

<?php include 'includes/menubar.php'; ?>

```

```

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <section class="content-header">
        <h1>
            Course
        </h1>
        <ol class="breadcrumb">
            <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
            <li>Students</li>
            <li class="active">Course</li>
        </ol>
    </section>
    <!-- Main content -->
    <section class="content">
        <?php
            if(isset($_SESSION['error'])){
                echo "
                    <div class='alert alert-danger alert-dismissible'>
                        <button type='button' class='close' data-dismiss='alert' aria-hidden='true'>&times;</button>
                        <h4><i class='icon fa fa-warning'></i> Error!</h4>
                        ".$_SESSION['error']."
                    </div>
                ";
                unset($_SESSION['error']);
            }
            if(isset($_SESSION['success'])){
                echo "
                    <div class='alert alert-success alert-dismissible'>
                        <button type='button' class='close' data-dismiss='alert' aria-hidden='true'>&times;</button>
                        <h4><i class='icon fa fa-check'></i> Success!</h4>
                ";
            }
        </?php
    </section>
</div>

```

```

        ".$_SESSION['success']."  

    </div>  

    ";  

    unset($_SESSION['success']);  

}  

?>  

<div class="row">  

    <div class="col-xs-12">  

        <div class="box">  

            <div class="box-header with-border">  

                <a href="#addnew" data-toggle="modal" class="btn btn-primary btn-sm btn-flat"><i class="fa-plus"></i> New</a>  

            </div>  

            <div class="box-body">  

                <table id="example1" class="table table-bordered">  

                    <thead>  

                        <th>Code</th>  

                        <th>Course Title</th>  

                        <th>Tools</th>  

                    </thead>  

<?php include 'includes/footer.php'; ?>  

<?php include 'includes/course_modal.php'; ?>  

</div>  

<?php include 'includes/scripts.php'; ?>  

<script>  

$(function(){  

    $(document).on('click', '.edit', function(e){  

        e.preventDefault();  

        $('#edit').modal('show');  

        var id = $(this).data('id');  

        getRow(id);  

    });

```

```
$(document).on('click', '.delete', function(e){
    e.preventDefault();
    $('#delete').modal('show');
    var id = $(this).data('id');
    getRow(id);
});
```

```
function getRow(id){
    $.ajax({
        type: 'POST',
        url: 'course_row.php',
        data: {id:id},
        dataType: 'json',
        success: function(response){
            $('.corid').val(response.id);
            $('#edit_code').val(response.code);
            $('#edit_title').val(response.title);
            $('#del_code').html(response.code);
        }
    });
}
```

## Category.php

```
<?php include 'includes/session.php'; ?>
<?php include 'includes/header.php'; ?>
<body class="hold-transition skin-blue sidebar-mini">
```

```

<div class="wrapper">

<?php include 'includes/navbar.php'; ?>
<?php include 'includes/menubar.php'; ?>

<!-- Content Wrapper. Contains page content -->
<div class="content-wrapper">
    <!-- Content Header (Page header) -->
    <section class="content-header">
        <h1>
            Category
        </h1>
        <ol class="breadcrumb">
            <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
            <li>Books</li>
            <li class="active">Category</li>
        </ol>
    </section>
    <!-- Main content -->
    <section class="content">
        <?php
            if(isset($_SESSION['error'])){
                echo "
                    <div class='alert alert-danger alert-dismissible'>
                        <button type='button' class='close' data-dismiss='alert' aria-hidden='true'>&times;</button>
                        <h4><i class='icon fa fa-warning'></i> Error!</h4>
                        ".$_SESSION['error']."
                    </div>
                ";
                unset($_SESSION['error']);
            }
            if(isset($_SESSION['success'])){

```

```

echo "
<div class='alert alert-success alert-dismissible'>
    <button type='button' class='close' data-dismiss='alert' aria-hidden='true'>&times;</button>
    <h4><i class='icon fa fa-check'></i> Success!</h4>
    ".$_SESSION['success']."
</div>
";
unset($_SESSION['success']);
}

?>

<div class="row">
<div class="col-xs-12">
<div class="box">
<div class="box-header with-border">
<a href="#addnew" data-toggle="modal" class="btn btn-primary btn-sm btn-flat"><i class="fa-plus"></i> New</a>
</div>
<td>
<button class='btn btn-success btn-sm edit btn-flat' data-id='".$row['id']."'><i class='fa-edit'></i> Edit</button>
<button class='btn btn-danger btn-sm delete btn-flat' data-id='".$row['id']."'><i class='fa-trash'></i> Delete</button>
</td>
</tr>
";
}

?>

</tbody>
</table>
</div>
</div>
</div>

```

```

</div>
</section>
</div>
<?php include 'includes/footer.php'; ?>
<?php include 'includes/category_modal.php'; ?>
</div>
<?php include 'includes/scripts.php'; ?>
<script>
$(function(){
    $(document).on('click', '.edit', function(e){
        e.preventDefault();
        $('#edit').modal('show');
        var id = $(this).data('id');
        getRow(id);
    });
    $(document).on('click', '.delete', function(e){
        e.preventDefault();
        $('#delete').modal('show');
        var id = $(this).data('id');
        getRow(id);
    });
});

function getRow(id){
    $.ajax({
        type: 'POST',
        url: 'category_row.php',
        data: {id:id},
        dataType: 'json',
        success: function(response){
            $('.catid').val(response.id);
        }
    });
}

```

```

        $('#edit_name').val(response.name);
        $('#del_cat').html(response.name);
    }
});

}

</script>
</body>
</html>

```

## **Book\_row.php**

```

<?php
    include 'includes/session.php';

    if(isset($_POST['id'])){
        $id = $_POST['id'];
        $sql = "SELECT *, books.id AS bookid FROM books LEFT JOIN category ON
category.id=books.category_id WHERE books.id = '$id'";
        $query = $conn->query($sql);
        $row = $query->fetch_assoc();

        echo json_encode($row);
    }
?>

```

## **Student\_row.php**

```

<?php
    include 'includes/session.php';

    if(isset($_POST['id'])){
        $id = $_POST['id'];
        $sql = "SELECT *, students.id AS studid FROM students LEFT JOIN course ON
course.id=students.course_id WHERE students.id = '$id'";

```

```

$query = $conn->query($sql);
$row = $query->fetch_assoc();

echo json_encode($row);
}

?>

Book_delete.php

<?php

include 'includes/session.php';

if(isset($_POST['delete'])){
    $id = $_POST['id'];
    $sql = "DELETE FROM books WHERE id = '$id'";
    if($conn->query($sql)){
        $_SESSION['success'] = 'Book deleted successfully';
    }
    else{
        $_SESSION['error'] = $conn->error;
    }
}
else{
    $_SESSION['error'] = 'Select item to delete first';
}

header('location: book.php');

?>

```

## **Course\_delete.php**

```
<?php

include 'includes/session.php';
```

```

if(isset($_POST['delete'])){
    $id = $_POST['id'];
    $sql = "DELETE FROM course WHERE id = '$id'";
    if($conn->query($sql)){
        $_SESSION['success'] = 'Course deleted successfully';
    }
    else{
        $_SESSION['error'] = $conn->error;
    }
}
else{
    $_SESSION['error'] = 'Select item to delete first';
}

header('location: course.php');

?>

```

## Student\_delete.php

```

<?php
include 'includes/session.php';

if(isset($_POST['delete'])){
    $id = $_POST['id'];
    $sql = "DELETE FROM students WHERE id = '$id'";
    if($conn->query($sql)){
        $_SESSION['success'] = 'Student deleted successfully';
    }
    else{
        $_SESSION['error'] = $conn->error;
    }
}

```

```
        }
    }
else{
    $_SESSION['error'] = 'Select item to delete first';
}
header('location: student.php');

?>
```

## **Category\_delete.php**

```
<?php
include 'includes/session.php';

if(isset($_POST['delete'])){
    $id = $_POST['id'];
    $sql = "DELETE FROM category WHERE id = '$id'";
    if($conn->query($sql)){
        $_SESSION['success'] = 'Category deleted successfully';
    }
    else{
        $_SESSION['error'] = $conn->error;
    }
}
else{
    $_SESSION['error'] = 'Select item to delete first';
}

header('location: category.php');

?>
```

## **Category\_add.php**

```
<?php
    include 'includes/session.php';
    if(isset($_POST['add'])){
        $name = $_POST['name'];

        $sql = "INSERT INTO category (name) VALUES ('$name')";
        if($conn->query($sql)){
            $_SESSION['success'] = 'Category added successfully';
        }
        else{
            $_SESSION['error'] = $conn->error;
        }
    }
    else{
        $_SESSION['error'] = 'Fill up add form first';
    }
    header('location: category.php');
?>
```

## **Category\_edit.php**

```
<?php
    include 'includes/session.php';

    if(isset($_POST['edit'])){
        $id = $_POST['id'];
        $name = $_POST['name'];

        $sql = "UPDATE category SET name = '$name' WHERE id = '$id'";
        if($conn->query($sql)){
            $_SESSION['success'] = 'Category updated successfully';
        }
    }
?>
```

```

        else{
            $_SESSION['error'] = $conn->error;
        }
    }
else{
    $_SESSION['error'] = 'Fill up edit form first';
}
header('location:category.php');

?>

```

## **Course\_add.php**

```

<?php
include 'includes/session.php';

if(isset($_POST['add'])){
    $code = $_POST['code'];
    $title = $_POST['title'];

    $sql = "INSERT INTO course (code, title) VALUES ('$code', '$title')";
    if($conn->query($sql)){
        $_SESSION['success'] = 'Course added successfully';
    }
    else{
        $_SESSION['error'] = $conn->error;
    }
}
else{
    $_SESSION['error'] = 'Fill up add form first';
}
header('location: course.php');

?>

```

## **Book\_add.php**

```
<?php
    include 'includes/session.php';

    if(isset($_POST['add'])){
        $isbn = $_POST['isbn'];
        $title = $_POST['title'];
        $category = $_POST['category'];
        $author = $_POST['author'];
        $publisher = $_POST['publisher'];
        $pub_date = $_POST['pub_date'];

        $sql = "INSERT INTO books (isbn, category_id, title, author, publisher, publish_date)
VALUES ('$isbn', '$category', '$title', '$author', '$publisher', '$pub_date')";

        if($conn->query($sql)){
            $_SESSION['success'] = 'Book added successfully';
        }
        else{
            $_SESSION['error'] = $conn->error;
        }
    }
    else{
        $_SESSION['error'] = 'Fill up add form first';
    }

    header('location: book.php');

?>
```

## **Book\_edit.php**

```
<?php
    include 'includes/session.php';

    if(isset($_POST['edit'])){
        $id = $_POST['id'];
        $isbn = $_POST['isbn'];
        $title = $_POST['title'];
        $category = $_POST['category'];
        $author = $_POST['author'];
        $publisher = $_POST['publisher'];
        $pub_date = $_POST['pub_date'];

        $sql = "UPDATE books SET isbn = '$isbn', title = '$title', category_id = '$category', author = '$author', publisher = '$publisher', publish_date = '$pub_date' WHERE id = '$id'";
        if($conn->query($sql)){
            $_SESSION['success'] = 'Book updated successfully';
        }
        else{
            $_SESSION['error'] = $conn->error;
        }
    }
    else{
        $_SESSION['error'] = 'Fill up edit form first';
    }

    header('location:book.php');
```

## Return\_add.php

```
<?php
    include 'includes/session.php';

    if(isset($_POST['add'])){
        $student = $_POST['student'];

        $sql = "SELECT * FROM students WHERE student_id = '$student'";
        $query = $conn->query($sql);
        if($query->num_rows < 1){
            if(!isset($_SESSION['error'])){
                $_SESSION['error'] = array();
            }
            $_SESSION['error'][] = 'Student not found';
        }
        else{
            $row = $query->fetch_assoc();
            $student_id = $row['id'];

            $return = 0;
            foreach($_POST['isbn'] as $isbn){
                if(!empty($isbn)){
                    $sql = "SELECT * FROM books WHERE isbn = '$isbn'";
                    $query = $conn->query($sql);
                    if($query->num_rows > 0)
                        $sql = "SELECT * FROM borrow WHERE student_id =
                            '$student_id' AND book_id = '$bid' AND status = 0";
                    $query = $conn->query($sql);
                    if($query->num_rows > 0){
                        $borrow = $query->fetch_assoc();
                        $borrow_id = $borrow['id'];
                    }
                }
            }
        }
    }
}
```

```

        $sql = "INSERT INTO returns (student_id, book_id,
date_return) VALUES ('$student_id', '$bid', NOW())";
        if($conn->query($sql)){
            $return++;
        }

        $sql = "UPDATE books SET status = 0 WHERE id = '$bid'";
        $conn->query($sql);
        $sql = "UPDATE borrow SET status = 1
WHERE id = '$borrow_id'";
        $conn->query($sql);

    else{
        if(!isset($_SESSION['error'])){
            $_SESSION['error'] = array();
        }
        $_SESSION['error'][] = 'Book not found: ISBN - '.$isbn;
    }

    if($return > 0){
        $book = ($return == 1) ? 'Book' : 'Books';
        $_SESSION['success'] = $return.' '.$book.' successfully returned';
    }
    else{
        $_SESSION['error'] = 'Fill up add form first';
    }
    header('location: return.php');

?>
```

## Book\_modal.php

```
<!-- Add -->

<div class="modal fade" id="addnew">

    <div class="modal-dialog">

        <div class="modal-content">

            <div class="modal-header">

                <button type="button" class="close" data-dismiss="modal" aria-label="Close">
                    <span aria-hidden="true">&times;</span></button>

                <h4 class="modal-title"><b>Add New Book</b></h4>

            </div>

            <div class="modal-body">

                <form class="form-horizontal" method="POST" action="book_add.php">

                    <div class="form-group">

                        <label for="isbn" class="col-sm-3 control-label">ISBN</label>

                        <div class="col-sm-9">

                            <input type="text" class="form-control" id="isbn" name="isbn" required>

                        </div>

                    </div>

                    <div class="form-group">

                        <label for="title" class="col-sm-3 control-label">Title</label>

                        <div class="col-sm-9">
```

```

<textarea class="form-control" name="title" id="title" required></textarea>

</div>

</div>

<div class="form-group">

<label for="category" class="col-sm-3 control-label">Category</label>

<div class="col-sm-9">

<select class="form-control" name="category" id="category" required>

<option value="" selected>- Select -</option>

<?php

$sql = "SELECT * FROM category";

$query = $conn->query($sql);

while($crow = $query->fetch_assoc()){

echo "

<option value='".$crow['id']."'>".$crow['name']. "</option>

";

}

?>

</select>

</div>

</div>

<div class="form-group">

<label for="author" class="col-sm-3 control-label">Author</label>

```

```
<div class="modal-header">

    <button type="button" class="close" data-dismiss="modal" aria-label="Close">
        <span aria-hidden="true">&times;</span></button>

    <h4 class="modal-title"><b>Deleting...</b></h4>

</div>

<div class="modal-body">

    <form class="form-horizontal" method="POST" action="book_delete.php">

        <input type="hidden" class="bookid" name="id">

        <div class="text-center">

            <p>DELETE BOOK</p>

            <h2 id="del_book" class="bold"></h2>

        </div>

</div>

<div class="modal-footer">

    <button type="button" class="btn btn-default btn-flat pull-left" data-dismiss="modal"><i class="fa fa-close"></i> Close</button>

    <button type="submit" class="btn btn-danger btn-flat" name="delete"><i class="fa-trash"></i> Delete</button>

</form>

</div>

</div>

</div>
```

## Add-book.php

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0)
{
header('location:index.php');
}
else{
if(isset($_POST['add']))
{
$bookname=$_POST['bookname'];
$category=$_POST['category'];
$author=$_POST['author'];
$isbn=$_POST['isbn'];
$price=$_POST['price'];
$bookimg=$_FILES["bookpic"]["name"];
// get the image extension
$extension = substr($bookimg,strlen($bookimg)-4,strlen($bookimg));
// allowed extensions
$allowed_extensions = array(".jpg","jpeg",".png",".gif");
```

```

// Validation for allowed extensions .in_array() function searches an array for a specific value.

//rename the image file

$imgnewname=md5($bookimg.time()).$extension;

// Code for move image into directory

if(!in_array($extension,$allowed_extensions))

{

echo "<script>alert('Invalid format. Only jpg / jpeg/ png /gif format allowed');</script>";

}

Else

{

move_uploaded_file($_FILES["bookpic"]["tmp_name"],"bookimg/".$imgnewname);

$sql="INSERT      INTO      tblbooks(BookName,CatId,AuthorId,ISBNNumber,BookPrice,bookImage)
VALUES(:bookname,:category,:author,:isbn,:price,:imgnewname)";

$query = $dbh->prepare($sql);

$query->bindParam(':bookname',$bookname,PDO::PARAM_STR);

$query->bindParam(':category',$category,PDO::PARAM_STR);

$query->bindParam(':author',$author,PDO::PARAM_STR);

$query->bindParam(':isbn',$isbn,PDO::PARAM_STR);

$query->bindParam(':price',$price,PDO::PARAM_STR);

$query->bindParam(':imgnewname',$imgnewname,PDO::PARAM_STR);

$query->execute();

$lastInsertId = $dbh->lastInsertId();

if($lastInsertId)

```

```

        } }

    }

?>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

    <meta charset="utf-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />

    <meta name="description" content="" />

    <meta name="author" content="" />

    <title>Online Library Management System | Add Book</title>

    <!-- BOOTSTRAP CORE STYLE -->

    <link href="assets/css/bootstrap.css" rel="stylesheet" />

    <!-- FONT AWESOME STYLE -->

    <link href="assets/css/font-awesome.css" rel="stylesheet" />

    <!-- CUSTOM STYLE -->

    <link href="assets/css/style.css" rel="stylesheet" />

    <!-- GOOGLE FONT -->

    <link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

<script type="text/javascript">

    function checkisbnAvailability() {

        $("#loaderIcon").show();

        jQuery.ajax({

```

```

<!---- MENU SECTION START-->

<?php include('includes/header.php');?>

<!-- MENU SECTION END-->

<div class="content-wrapper">

    <div class="container">

        <div class="row pad-botm">

            <div class="col-md-12">

                <h4 class="header-line">Add Book</h4>

                </div>

            <!-- CONTENT-WRAPPER SECTION END-->

        <?php include('includes/footer.php');?>

        <!-- FOOTER SECTION END-->

        <!-- JAVASCRIPT FILES PLACED AT THE BOTTOM TO REDUCE THE LOADING TIME -->

        <!-- CORE JQUERY -->

        <script src="assets/js/jquery-1.10.2.js"></script>

        <!-- BOOTSTRAP SCRIPTS -->

        <script src="assets/js/bootstrap.js"></script>

        <!-- CUSTOM SCRIPTS -->

        <script src="assets/js/custom.js"></script>

    </div>

</body>

</html>

<?php } ?>

```

## **Update-issue-book-detail.php**

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0)
{
header('location:index.php');
}
else{
if(isset($_POST['return']))
{
$rid=intval($_GET['rid']);
$fine=$_POST['fine'];
$rstatus=1;
$bookid=$_POST['bookid'];
$sql="update tblissuedbookdetails set fine=:fine,RetrunStatus=:rstatus where id=:rid;
update tblbooks set isIssued=0 where id=:bookid";
$query = $dbh->prepare($sql);
$query->bindParam(':rid',$rid,PDO::PARAM_STR);
$query->bindParam(':fine',$fine,PDO::PARAM_STR);
$query->bindParam(':rstatus',$rstatus,PDO::PARAM_STR);
$query->bindParam(':bookid',$bookid,PDO::PARAM_STR);
```

```

$query->execute();

$_SESSION['msg']="Book Returned successfully";

header('location:manage-issued-books.php');

}

?>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />

<meta name="description" content="" />

<meta name="author" content="" />

<title>Online Library Management System | Issued Book Details</title>

<!-- BOOTSTRAP CORE STYLE -->

<link href="assets/css/bootstrap.css" rel="stylesheet" />

<!-- FONT AWESOME STYLE -->

<link href="assets/css/font-awesome.css" rel="stylesheet" />

<!-- CUSTOM STYLE -->

<link href="assets/css/style.css" rel="stylesheet" />

<!-- GOOGLE FONT -->

<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />

<script>

// function for get student name

```

```
function getstudent() {  
    $("#loaderIcon").show();  
  
    jQuery.ajax({  
  
        url: "get_student.php",  
  
        data:'studentid='+$("#studentid").val(),  
  
        type: "POST",  
  
        success:function(data){  
  
            $("#get_student_name").html(data);  
  
            $("#loaderIcon").hide();  
  
        },  
  
        error:function (){}  
  
    });  
  
}  
  
//function for book details  
  
function getbook() {  
    $("#loaderIcon").show();  
  
    jQuery.ajax({  
  
        url: "get_book.php",  
  
        data:'bookid='+$("#bookid").val(),  
  
        type: "POST",  
  
        success:function(data){  
  
            $("#get_book_name").html(data);  
  
            $("#loaderIcon").hide();  
  
        },  
  
        error:function (){}  
  
    });  
  
}
```

```

<!----- MENU SECTION START-->

<?php include('includes/header.php');?>

<!-- MENU SECTION END-->

<div class="content-wrapper">

    <div class="container">

        <div class="row pad-botm">

            <div class="col-md-12">

                <h4 class="header-line">Issued Book Details</h4>

                </div>

            </div>

        <div class="row">

            <div class="col-md-10 col-sm-6 col-xs-12 col-md-offset-1">

                <div class="panel panel-info">

                    <div class="panel-heading">

                        Issued Book Details

                    </div>

                    <div class="panel-body">

                        <form role="form" method="post">

                            <?php

                                $rid=intval($_GET['rid']);

                                $sql = "SELECT tblstudents.StudentId
                                ,tblstudents.FullName,tblstudents.EmailId,tblstudents.MobileNumber,tblbooks.BookName,tblbooks.ISBN
                                Number,tblissuedbookdetails.IssuesDate,tblissuedbookdetails.ReturnDate,tblissuedbookdetails.id      as
                                rid,tblissuedbookdetails.fine,tblissuedbookdetails.RetrnStatus,tblbooks.id as bid,tblbooks.bookImage from

```

```

tblissuedbookdetails join tblstudents on tblstudents.StudentId=tblissuedbookdetails.StudentId join tblbooks
on tblbooks.id=tblissuedbookdetails.BookId where tblissuedbookdetails.id=:rid";

</div></div>

<div class="col-md-6">
<div class="form-group">
<label>Book Name :</label>
<?php echo htmlentities($result->BookName);?>
</div>
</div>

<div class="col-md-6">
<div class="form-group">
<label>ISBN :</label>
<?php echo htmlentities($result->ISBNNumber);?>
</div>
</div>

<div class="col-md-6">
<label>Fine (in USD) :</label>
<?php
if($result->fine==0)
{
    $datea=new DateTime($result->ReturnDate);
    $today=new DateTime();
}
?>

```

```

$interval=$datea->diff($today);

$diffInDays = $interval->d * 5;

$sql="update tblissuedbookdetails set fine=:fine where id=:rid;";

$query = $dbh->prepare($sql);

$query->bindParam(':rid',$rid,PDO::PARAM_STR);

$query->bindParam(':fine',$diffInDays,PDO::PARAM_STR);

$query->execute();

<!-- CONTENT-WRAPPER SECTION END-->

<?php include('includes/footer.php');?>

<!-- FOOTER SECTION END-->

<!-- JAVASCRIPT FILES PLACED AT THE BOTTOM TO REDUCE THE LOADING TIME -->

<!-- CORE JQUERY -->

<script src="assets/js/jquery-1.10.2.js"></script>

<!-- BOOTSTRAP SCRIPTS -->

<script src="assets/js/bootstrap.js"></script>

<!-- CUSTOM SCRIPTS -->

<script src="assets/js/custom.js"></script>




</body>

</html>

<?php } ?>

```

## Add-author.php

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0)
{
header('location:index.php');
}
else{
if(isset($_POST['create']))
{
$author=$_POST['author'];
$sql="INSERT INTO tblauthors(AuthorName) VALUES(:author)";
$query = $dbh->prepare($sql);
$query->bindParam(':author',$author,PDO::PARAM_STR);
$query->execute();
$lastInsertId = $dbh->lastInsertId();
if($lastInsertId)
{
$_SESSION['msg']="Author Listed successfully";
header('location:manage-authors.php');
}
else
{
$_SESSION['error']="Something went wrong. Please try again";
header('location:manage-authors.php');
}
}
```

```

}

?>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta charset="utf-8" />

<meta name="viewport" content="width=device-width, initial-scale=1, maximum-scale=1" />

<meta name="description" content="" />

<meta name="author" content="" />

<title>Online Library Management System | Add Author</title>

<!-- BOOTSTRAP CORE STYLE -->

<link href="assets/css/bootstrap.css" rel="stylesheet" />

<!-- FONT AWESOME STYLE -->

<link href="assets/css/font-awesome.css" rel="stylesheet" />

<!-- CUSTOM STYLE -->

<link href="assets/css/style.css" rel="stylesheet" />

<!-- GOOGLE FONT -->

<link href='http://fonts.googleapis.com/css?family=Open+Sans' rel='stylesheet' type='text/css' />




</head>

<body>

<!---- MENU SECTION START-->

<?php include('includes/header.php');?>

<!-- MENU SECTION END-->

<div class="content-wra

<div class="content-wrapper">

<div class="container">

<div class="row pad-botm">

<div class="col-md-12">

```

```

<h4 class="header-line">Add Author</h4>

</div>
</div>

<div class="row">
<div class="col-md-6 col-sm-6 col-xs-12 col-md-offset-3">
<div class="panel panel-info">
<div class="panel-heading">
Author Info
</div>
<div class="panel-body">
<form role="form" method="post">
<div class="form-group">
<label>Author Name</label>
<input class="form-control" type="text" name="author" autocomplete="off" required />
</div>

<button type="submit" name="create" class="btn btn-info">Add </button>

</form>
</div>
</div>
</div>
</div>

<!-- CONTENT-WRAPPER SECTION END-->
<?php include('includes/footer.php');?>
<!-- FOOTER SECTION END-->
<!-- JAVASCRIPT FILES PLACED AT THE BOTTOM TO REDUCE THE LOADING TIME -->

```

```

<!-- CORE JQUERY -->
<script src="assets/js/jquery-1.10.2.js"></script>
<!-- BOOTSTRAP SCRIPTS -->
<script src="assets/js/bootstrap.js"></script>
<!-- CUSTOM SCRIPTS -->
<script src="assets/js/custom.js"></script>
</body>
</html>
<?php } ?>

```

## **Invoice.php**

```

<?php
//require_once 'core.php';
require_once 'includes/config.php';
$id=$_GET["id"];
$sql="SELECT
tblstudents.FullName,tblbooks.BookName,tblbooks.ISBNNumber,tblbooks.id,tblissuedbookdetails.Issues
Date,tblissuedbookdetails.fine,tblissuedbookdetails.ReturnDate,tblissuedbookdetails.id as rid from
tblissuedbookdetails join tblstudents on tblstudents.StudentId=tblissuedbookdetails.StudentId join tblbooks
on    tblbooks.id=tblissuedbookdetails.BookId      where    tblissuedbookdetails.id='$id'    order   by
tblissuedbookdetails.id desc";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);

$table =
<table border="1" cellspacing="0" cellpadding="0" style="width:100%;">
<tr>
<th>Student Name</th>

```

```

<th>Book Name</th>
<th>Book ID</th>
<th>ISBN Number</th>
<th>Issued Date</th>
<th>Return Date</th>
<th>Fine</th>

</tr>
<tr>';
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{
    //echo"<script>alert(\".$result->FullName.\")</script>";
    $table .= '<tr>
        <td><center>'.$result->FullName.'</center></td>
        <td><center>'.$result->BookName.'</center></td>
        <td><center>'.$result->id.'</center></td>
        <td><center>'.$result->ISBNNumber.'</center></td>
        <td><center>'.$result->IssuesDate.'</center></td>
        <td><center>'.$result->ReturnDate.'</center></td>
        <td><center>'.$result->fine.'</center></td>
    </tr>';
}
}
$table .= '
</tr>
</table>
<button onClick="window.print()">Print this page</button>

```

```
';  
  
echo $table;  
?>
```

## **Login.php**

```
<?php  
session_start();  
session_destroy(); // destroy session  
header("location:index.php");  
?>
```

## **4.3 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

### **4.3.1 Unit Testing**

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

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

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

#### **➤ 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 other wise 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 .

➤ Test for User login module

- Test for Student login Form-This form is used for log in of Student .In this we enter the library id, username and password if all these are correct student login page will open other wise if any of data is wrong it will get redirected back to the login page and again ask for library id, username and password.
- Test for new registration - This form is used for new registration 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.

### **4.3.2 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 5**

# **CONCLUSION AND 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 fulfils each users need in the best way possible occurring when one module invokes the other module

# **Chapter 6**

## **REFERENCES.**

- [http://www.w3schools.com/html/html\\_intro.asp](http://www.w3schools.com/html/html_intro.asp)
- [http://www.w3schools.com/css/css\\_background.asp](http://www.w3schools.com/css/css_background.asp)
- [http://www.w3schools.com/js/js\\_datatypes.asp](http://www.w3schools.com/js/js_datatypes.asp)
- [http://www.w3schools.com/sql/sql\\_insert.asp](http://www.w3schools.com/sql/sql_insert.asp)
- [http://www.w3schools.com/sql/sql\\_update.asp](http://www.w3schools.com/sql/sql_update.asp)
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