VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi – 590018

A DBMS (18CSL58) MINI PROJECT REPORT

ON

"ONLINE LIBRARY MANAGEMENT SYSTEM"

Submitted in partial fulfillment of the requirement of the 5th semester

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING

For the academic year
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Submitted by:

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CERTIFICATE

This is to certify that **Ms. SNEHA D (1KN20CS045)** has successfully completed the DBMS mini project entitled **"ONLINE LIBRARY MANAGEMENT SYSTEM"** in partial fulfillment for the award of **Bachelor of Engineering in Computer Science** under **Visvesvaraya Technological University, Belagavi,** during the year **2022-2023**. The project report has been approved as it satisfies the academic requirements in respect of project prescribed for the Bachelor Of Engineering degree.

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INTERNAL EVALUATION

External Viva

Name of the Examiner	**Signature with Date**
1. _____	**1.** _____
2. _____	2. _____

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Ms. SNEHA D **1KN20CS045**

ABSTRACT

Library may be an assortment of sources of data and similar resources, created accessible to an outlined community for reference or borrowing. Therefore the method of handling a library manually is incredibly hard and clumsy. As regards to the present purpose of read, the processed system for handling the activities of library management provides a comprehensive thanks to reduce physical labour, to cut back complexness of the manual system and shortly. This project work aim to style and implement a processed library management system. The aim of the project is to develop the Management data system (MIS) to modify the record keeping of Publishers, Books, Members and Book issue with a read to reinforce the choice creating of the functionaries.

A MIS chiefly consists of a processed information, a group of inter-related tables for a selected subject or purpose, capable to supply totally different reports relevant to the user. Associate in nursing computer programme is tied with the information for straightforward access and interface to the information. mistreatment computer programme or front-end, we are able to store, retrieve and manage all data in correct means The library management system was style and enforced mistreatment the markup language (Hypertext mark-up language), CSS (Cascading vogue sheet), PHP (Hypertext pre-processor) and My SQL information. an intensive analysis of the project determines that the project achieved several of its predefined objectives.

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CHAPTER 1

INTRODUCTION

1.1 General Introduction

Library management one of a sub-discipline of institutional management that focuses on specific issues Janus-faced by libraries and library management professionals. Library management encompasses traditional management tasks likewise as intellectual freedom, anti-censorship, and fundraising tasks. Problems Janus-faced in library management oftentimes overlap those Janus-faced in management of non-profit organizations.

Library Management System is an application that portraits library system that may well be usually tiny or medium in size. It is operating by the librarian to flatly manage the library by the virtue of computerized a processed system wherever he/she can record numerous transactions like issue of books, come back of books, addition of latest books, addition of new students etc.
This system are going to be developed and designed to help librarian record each book transaction so as to reduce and eradicate downside of loss of books and files within the library.

1.2 Statement of the Matter

Presently, dealing of books within the institutional libraries are done manually in most cases, thereby taking longer for dealing like borrowing of books or return of books and conjointly looking out of member and books. Series of issues occur as a result of this thereby ensuing to inefficient library management. When a library doesn't use a processed system, there may be loss and damage of records due to human error.

As a result of delayed data retrieval and time wasted in using the library, the library is unable to provide prompt data retrieval. Additionally because of the cumbersome, during this project computer approach will be used to solve these issues. The manual procedures will be analyzed one by one.

1.3 Aim and Objective

The aim of this project is to develop a system which will handle and manage the activities concerned in a very library in an efficient and reliable manner.

The objectives are:

- ✓ Designing a computerized library management system which might facilitate evacuate the issues faced in manual library.
- ✓ Implementing the system
- ✓ Evaluating and testing the performance of the system.

1.4 Purpose of the Project:

This project primarily aims at developing a computerized system to manage the library's activities, enabling librarians and library users to have easy access to library usage, and to keep track of library information. In addition to storing library information electronically, this system will also help librarians manage the library.

CHAPTER 2

LITERATURE REVIEW

2.1 Introduction

The library is thought to be the brain of any institute, in fact, several institutes perceive the importance of the library to the expansion of the institute and their esteemed users that we flatly call the students. An integrated library system additionally called a library management system (Adamson et al., 2008) is an enterprise resource coming up with a system for a library, accustomed track things in hand, orders created, bills paid, and users who have borrowed. Library Management System supports the required demand of the library like the acquisition, cataloging, circulation, and alternative sections.

An effective library management system typically consists of a relational database, software to interact with the database, and two user interfaces (one for users, and one for staff). The majority of integrated library systems separate functions into discrete programs called modules, each integrated with a unified interface. Samples of modules would possibly include:

i. Acquisitions (ordering, receiving, and invoicing materials)
ii. Cataloguing (classifying and assortment materials)
iii. Circulation (lending materials to patrons and receiving them back)
iv. Serials (tracking magazine and newspaper holdings)
v. The OPAC (public interface for users)

The main goal of this research will be to gain a thorough understanding of the scope of library management system initiatives and projects that have been undertaken globally, as well as the conditions and circumstances that have influenced and contributed to their success. The literature

review will be organized into the following sections: Introduction, Features of Library Management, Why We Need a Library Management System, and Examples of Library Management Systems. A Review of Library Management System Initiatives Worldwide: Problems and Challenges Facing Librarians in Developing Nations.

2.2 Development of Library Management System

A library management system is a planning tool for the library's resources that allows users to access the orders, payments, and loans made by clients. Particularly in the UK, the term "library integrated system" is occasionally used. Some libraries have started using integrated open source library systems like KOHA and Evergreen.

2.3 Needs for Library Management System

1. Better customer service provides easier access to reliable data.
2. As a result of reducing duplication of effort, staff members will be more productive and satisfied with their jobs.
3. More affordable and secure information storage and retention techniques.
4. Faster and more precise results from statistical analyses, as well as easier access to information such as management reports, stock, etc.
5. It reduces errors and eliminates the boredom associated with lengthy and repetitive manual processing.
6. Greater accountability and transparency in business practices.
7. Improved administration and management efficiency and effectiveness as a result of unparalleled access to real-time data.
8. More dependable security for personal and sensitive data.
9. Timelier action and intervention based on appropriate knowledge is now possible.

2.4 Library Management System Initiatives Worldwide

In their study, Neelakadan, Duraisekar, Balasubramani, and Srinivasa (2010) developed

an automated system using KOHA Open source software to carry out the charging and discharging functions of the circulation section more effectively.The system they created has as a result: Chemistry library collections that are in a single database, it gives full control over the library operations and collection management, faculty members can search and research scholars can check the required books by OPAC modules, research scholars and faculty members can check the status of their borrowed books, they can get full information about the books for their further reading and research, and data entry of the books can be done.

The following factors contributed to the limitations of his research:

i. Lack of infrastructure facilities;

ii. Lack of environmental support;

iii. Lack of financial resources.

Several modules were taken into consideration when designing the system, including the following ones:

- Authorization and authentication module
- Member/staff module
- Search module
- Books administration module
- News administration module
- Email administration module
- Modules for reporting
- Publisher maintenance module
- Employee maintenance module etc.

The benefits of the system they created are as follows:

i. User friendly interface,

ii. Fast access to database, 7

iii. Less error,

iv. More Storage Capacity,

v. Search facility,

vi. Look and Feel Environment.

The goals of the system that was created were to:

- An improvement in performance and control.
- Reduce costs.
- Time management.
- The choice of an online notice board, where the librarian can give a thorough description of workshops taking place at the college as well as in nearby colleges, etc.

2.5 Review of Problems and Challenges of Library Professionals inDeveloping Countries

The role and responsibilities of librarians have been completely altered by new information technology tools. The difficulties faced by librarians have been the subject of numerous studies.

Therefore, there must not be a disconnect between librarians' professional and technological expertise and the informational needs of the society that they are expected to address. It was also felt that the medical library and information science curriculum in Iran needed to change.

CHAPTER 3

SYSTEM ANALYSIS AND DESIGN

3.1 Introduction to System Analysis

There are three stages in building the new system to create the optimum match for the library. They are gathering data, designing, implementing, and conducting final testing. Different strategies will be used within these three areas so that we may develop a system that can retainhigh usability and accessibility. Here are some suggestions for the procedure. Prior to employing software development tools to set up the system, information about the requirements for users of the system, such as library staff and readers, will be obtained from the staff by using qualitative data gathering techniques (oral interviews).

Given the size and goals of this study, it is highly recommended to adopt the survey method ofqualitative data collection, which involves conducting oral interviews.The library serves as both a case study for the suggested system and a significant source of data. In accordance with this, the primary technique for the system's information collection is the monitoring the staff and how the library is run is a method for the library and observation.

3.1.1 Analysis of Existing System

There is a ton of paperwork involved with the current library administration system. Accordingto the system, all library user information will be collected using a white-and-black technique.Every registered user's borrower information is required when checking out a book from the library, and that person can sign out the book and return it when finished.

3.1.2 Problems of Existing System

i. Having a general understanding of the current system, the following are its issues.
ii. Data Loss: A lot of paperwork is required to save the information on II. Books borrowed by a registered user in a safe manner.
iii. Time Wasting: Users waste time looking for books that have already been published.
iv. A user who cannot be identified by their borrowing history on the paper records.
v. Error Prone: The current operating system is prone to mistakes.
vi. It is difficult because it requires a routine.
vii. Processing Speed: There is very little output due to the slow processing speed.

3.1.3 Description of Proposed System

An administrator (Librarian) uses the library management system, a desktop-based application system, as an alternative method of keeping track of the books kept in the library. These characteristics are present.

- The administrator enters the applicant's first and last names when registering them, matriculation number, department, etc., as well as a username that the user has recommended. Alongside a login password that the registered user must use to log in.
- A candidate is permitted to access the system using his name and a randomly generatedpassword. which is provided during the registration stage.
- The administrator accesses the report to see a specific user's details.

3.1.4 Advantages of Proposed System

Certain advantages are related to the projected system which enhances the look of the system.a number of that are declared below:

i. It eliminates the presence of the audience or fellow colleague who will whisper the result to their friends.
ii. it's free from biasness (all users are served equally).
iii. It provides a right away an instantaneous response to each user.
iv. It facilitates simple learning.

3.2 Hardware Requirements

The hardware that's needed within the successful completion of this project include:

- Processor : Intel(R) Core(TM) i5-6200U
- PC used : HP Pavilion Notebook
- Memory : 8GB RAM
- Hard Dick space : 238.46 GB

3.3 Software Requirements

The software support for the design of the projected system involves:

- Operating System: Microsoft Window 10
- Languages Used: PHP, CSS, HTML, JAVA SCRI
- Local Validation: PHP Database: MY-SQL Database
- Web Server: XAMPP Server
- Type: Web Application
- Web Browser: Microsoft edge browser, Chrome browser

The front end and the back end of the project are separated into two sections

FRONT END: Java script, HTML, PHP, and CSS were used to create the front end.

i. HTML: HTML, often known as Hyper Text Mark-up The primary mark-up language used to create web pages and other content that can be seen in a web browser is language. Within the

text of a web page, HTML is expressed as HTML elements, which are composed of tags contained in angle brackets (such as html>).

ii. Cascading Style Sheets (CSS): CSS is a language for creating style sheets that describe how a document formatted and looked when it was created using a mark-up language. The language can be used to style any type of XML document, including plain XML, SVG, and XUL. However, it is most frequently used to style web pages and interfaces written in HTMLand XHTML. Additionally, depending on the screen size or viewing device, it can be utilized to enable the web page to appear differently.

iii JavaScript (JS): JavaScript, a dynamic computer programming language, is the third option. It is most frequently used as a component of web browsers, whose implementations enable client-side scripts to interact with users, manage browser settings, communicate asynchronously, and modify the displayed document content. Despite sharing many names and naming conventions with Java, JavaScript is completely unrelated to Java and has a significantly different semantic structure.

iii. PHP: PHP is a server-side scripting language used for general-purpose programming as well as web development. More than 244 million websites and 2.1 million web servers currently use PHP. Most web servers support the free deployment of PHP, which is also available as a standalone shell on practically all platforms and operating systems.

BACK END:

MySQL, which is used to construct databases I is utilized to design the back end. MYSQL- MySQL, often known as "My S-Q-L" or "My Sequel," is the second-most popular open-source relational database management system in the world as of July 2013. (RDBMS).

3.4 Requirement analysis

By examining the user's needs, the system requirements are gathered (s). Establishing the functions that the ideal system must have is the focus of this phase. It does not, however, influence the design or construction of the software. Typically, after interviewing the users, a document known as the user requirements document is produced.

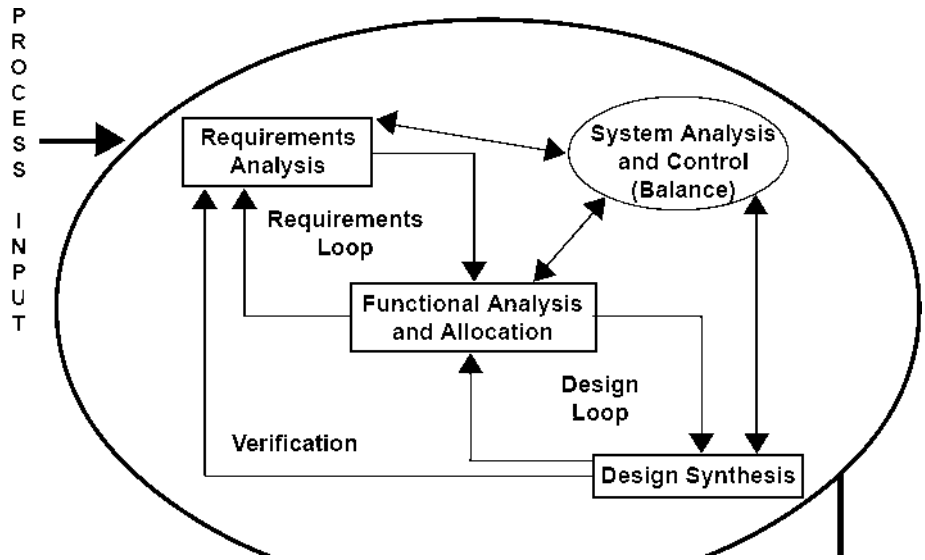


Figure: Requirement analysis

The functional, interface, performance, data, security, and other needs of the system as anticipated by the user will normally be described in the user requirements document. Business analysts use it to explain to users how they should utilize the system. The users carefully read this document because it will act as the system designers' reference during the system design process. In this stage, the user acceptance tests are created.

For enhanced understanding, it might also include sample windows, reports, and business scenario examples. In this phase, additional technical documentation will also be generated, such as entity diagrams and data dictionaries. The system testing documentation is ready.

3.5 System Development and System Design

3.5.1 Architectural Design

High-level design is another name for the stage of designing a computer or software's

architecture.Before these mistakes or issues are included into the system, the design will act as a blue print for it.

3.5.2 Context Flow Diagram

The environment in which the software used is depicted in this picture. The CFD shows the external entity action on the software is shown here in CFD as a single process.

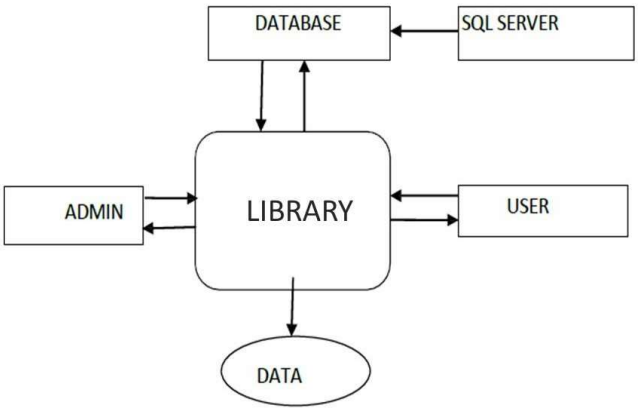


Figure : Content Flow Diagram

3.5.3 Data Flow Diagram

1. The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.

2. The data flow diagram (DFD) is one of the most important modelling tools. It is used to model the system components. These components are the system process, the data used by theprocess, an external entity that interacts with the system and the information flows in the system.

3. DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output.

4.

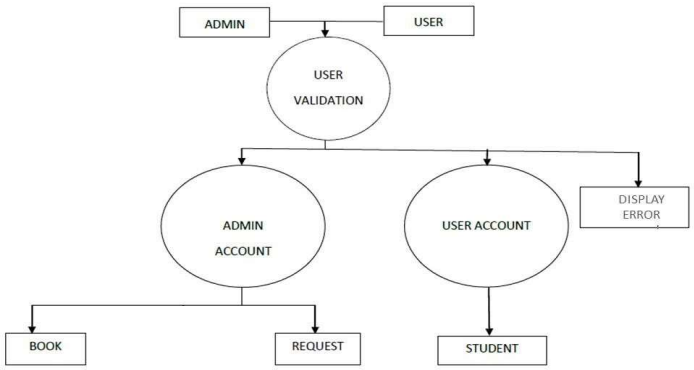


Figure : Data Flow Diagram

3.5.3.1 Admin Data Flow Diagram

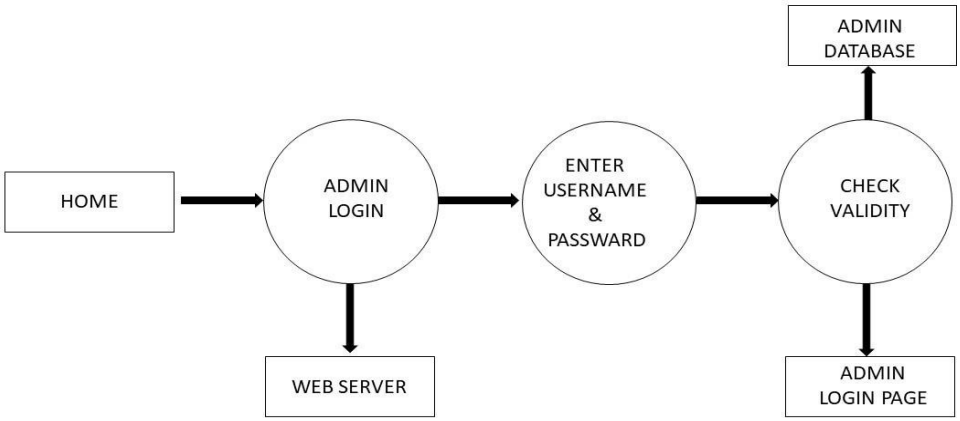


Figure : Admin Data Flow Diagram

3.5.3.2 User Data Flow Diagram

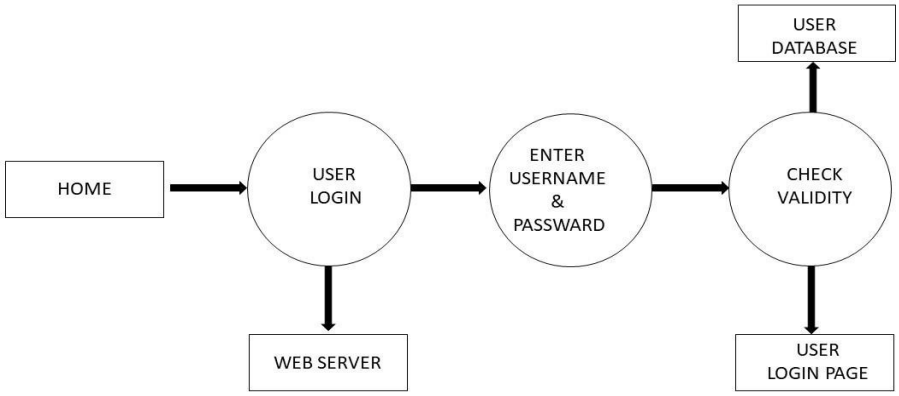


Figure: User Data Flow Diagram

3.5.4 ER Diagram

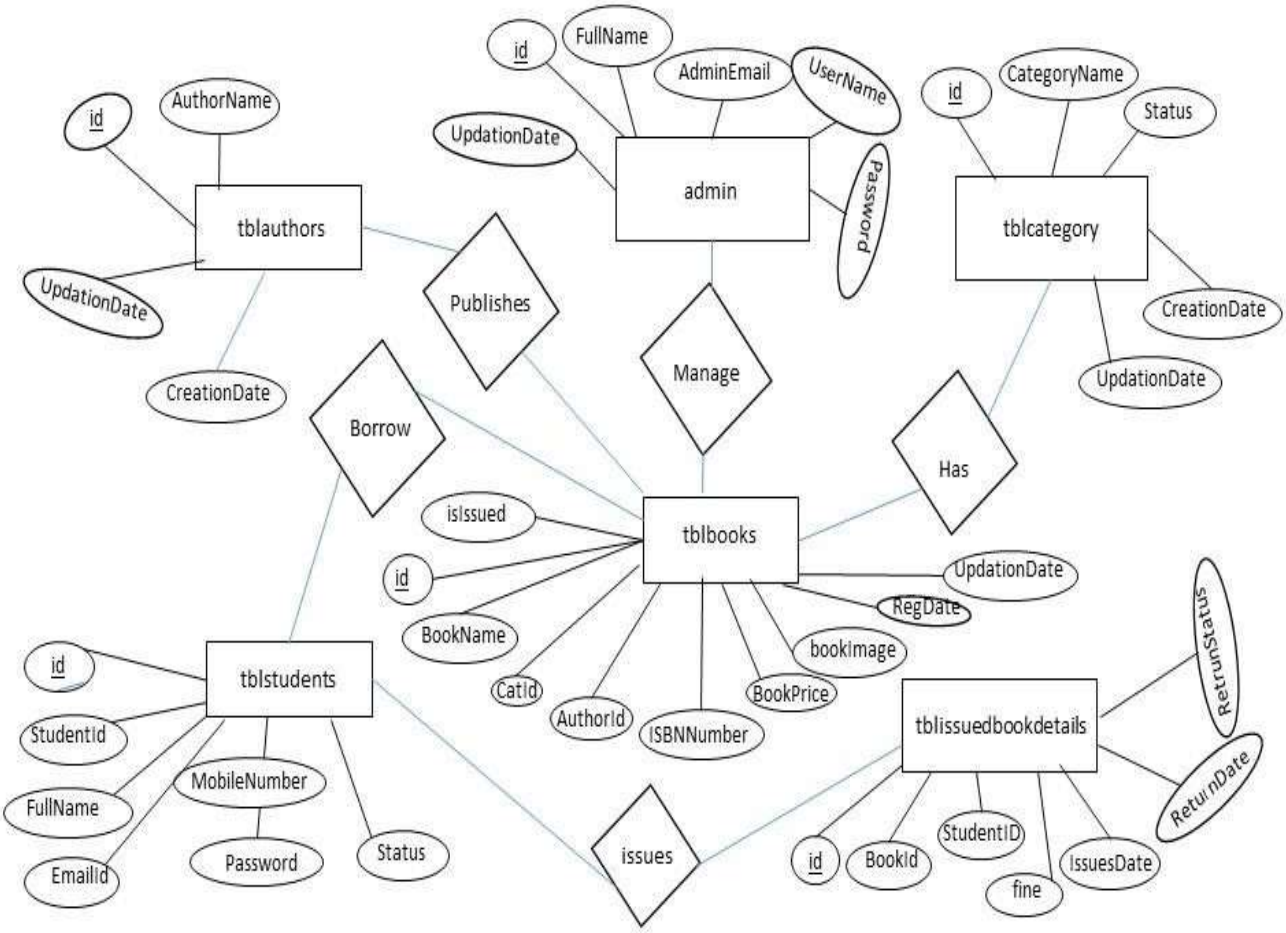


FIGURE : E-R DIAGRAM OF ONLINE LIBRARY MANAGEMENT SYSTEM

3.6 Database Design

3.6.1 Admin Table

```
CREATE TABLE `admin` (
`id` int(11) NOT NULL,
`FullName` varchar (100) DEFAULT NULL,
`AdminEmail` varchar (120) DEFAULT NULL,
`UserName` varchar (100) NOT NULL,
`Password` varchar (100) NOT NULL,
`updationDate` timestamp NOT NULL DEFAULT '0000-00-00 00:00:00' ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `admin` ADD
    PRIMARY KEY (`id`);
ALTER TABLE `admin`
    MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
```

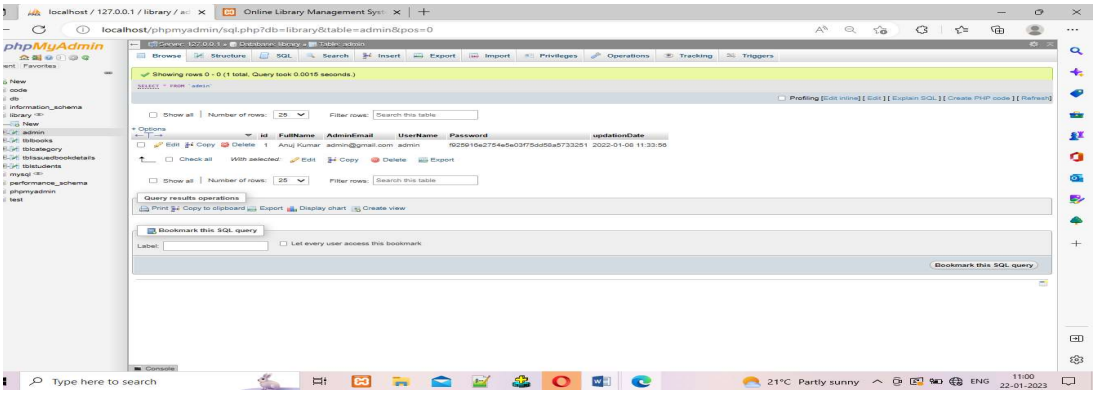


Figure: Admin Table

3.6.2 Authors Table

```
CREATE TABLE `tblauthors` (
`id` int(11) NOT NULL,
`AuthorName` varchar(159) DEFAULT NULL,
`creationDate` timestamp NULL DEFAULT current_timestamp(),
`UpdationDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `tblauthors`
ADD PRIMARY KEY (`id`);
ALTER TABLE `tblauthors`
MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=16;
```

	id	AuthorName	creationDate	UpdationDate
Edit Copy Delete	1	Anuj kumar	2022-01-22 13:23:03	2022-01-22 13:23:03
Edit Copy Delete	2	Chetan Bhagatt	2022-01-22 13:23:03	2022-01-22 13:23:03
Edit Copy Delete	3	Anita Desai	2022-01-22 13:23:03	2022-01-22 22:23:41
Edit Copy Delete	4	HC Verma	2022-01-22 13:23:03	2022-01-22 22:23:45
Edit Copy Delete	5	R.D. Sharma	2022-01-22 13:23:03	2022-01-22 22:23:47
Edit Copy Delete	9	fwdfrwer	2022-01-22 13:23:03	2022-01-22 22:23:55
Edit Copy Delete	10	Dr. Andy Williams	2022-01-22 13:15:32	NULL
Edit Copy Delete	11	Kyle Hill	2022-01-22 13:16:34	NULL
Edit Copy Delete	12	Robert T. Kiyosak	2022-01-22 13:18:38	NULL
Edit Copy Delete	13	Kelly Barnhill	2022-01-22 13:21:54	NULL
Edit Copy Delete	14	Herbert Schildt	2022-01-22 13:23:03	NULL

Figure : Authors Table

3.6.3 Books Table

```
CREATE TABLE `tblbooks` (
`id` int(11) NOT NULL,
`BookName` varchar(255) DEFAULT NULL,
`CatId` int(11) DEFAULT NULL,
`AuthorId` int(11) DEFAULT NULL,
`ISBNNumber` varchar(25) DEFAULT NULL,
`BookPrice` decimal(10,2) DEFAULT NULL,
`bookImage` varchar(250) NOT NULL,
`isIssued` int(1) DEFAULT NULL,
`RegDate` timestamp NULL DEFAULT current_timestamp(),
`UpdationDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `tblbooks`
 ADD PRIMARY KEY (`id`);

ALTER TABLE `tblbooks`
        MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=12;
```

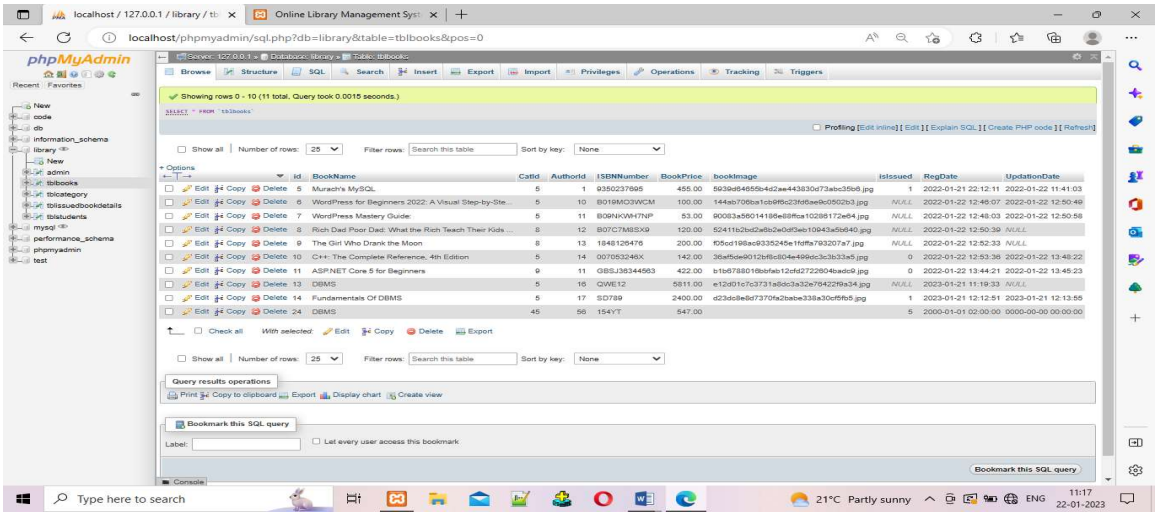


Figure : Book Table

3.6.4 Books Category Table

```
CREATE TABLE `tblcategory` (
`id` int(11) NOT NULL,
`CategoryName` varchar(150) DEFAULT NULL,
`Status` int(1) DEFAULT NULL,
`CreationDate` timestamp NULL DEFAULT current_timestamp(),
`UpdationDate` timestamp NULL DEFAULT '0000-00-00 00:00:00' ON UPDATE
current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `tblcategory`
 ADD PRIMARY KEY (`id`);
ALTER TABLE `tblcategory`
    MODIFY `id` int(11) NOT NULL AUTO _INCREMENT, AUTO_INCREMENT=10;
```

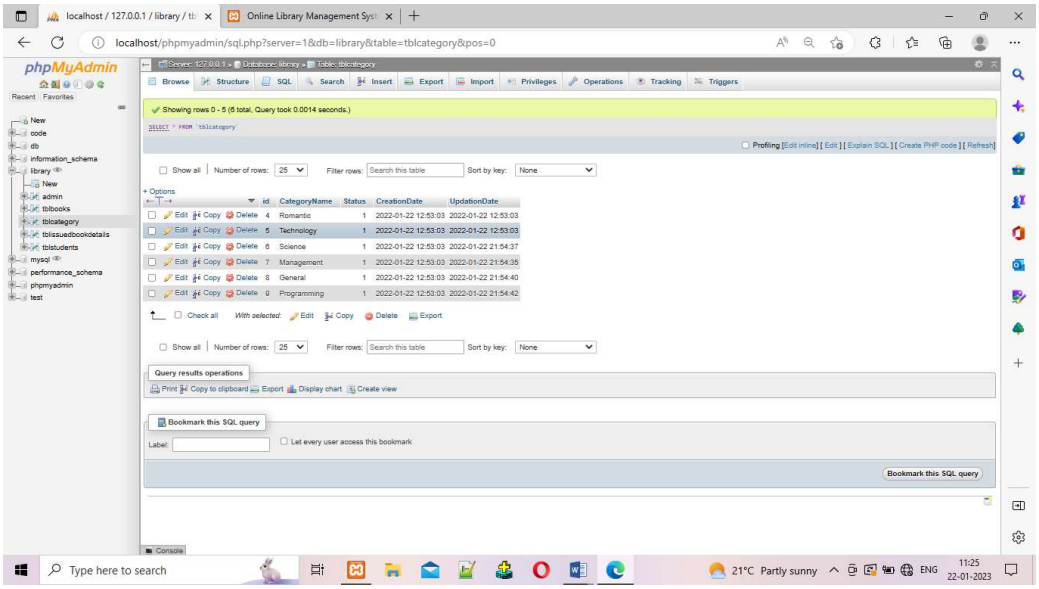


Figure: **Books Category Table**

3.6.5 Issued Book Details Table

```
CREATE TABLE `tblissuedbookdetails` (
`id` int(11) NOT NULL,
`BookId` int(11) DEFAULT NULL,
`StudentID` varchar(150) DEFAULT NULL,
`IssuesDate` timestamp NULL DEFAULT current_timestamp(),
`ReturnDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp(),
`RetrunStatus` int(1) DEFAULT NULL,
`fine` int(11) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `tblissuedbookdetails`
        ADD PRIMARY KEY (`id`);
ALTER TABLE `tblissuedbookdetails`
    MODIFY `id` int(11) NOT NULL
    AUTO_INCREMENT,
    AUTO_INCREMENT=13;
```

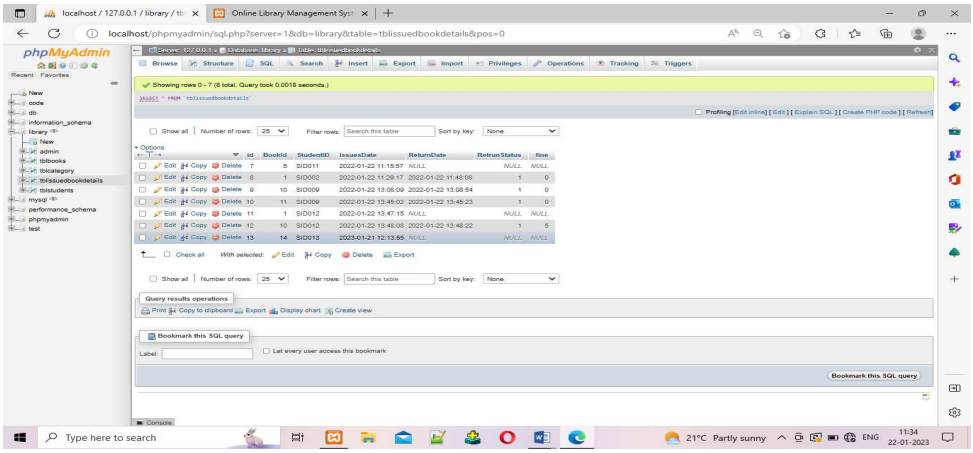


Figure : Issued Book Details Table

3.6.6 Students Table

```
CREATE TABLE `tblstudents` (
`id` int(11) NOT NULL,
`StudentId` varchar(100) DEFAULT NULL,
`FullName` varchar(120) DEFAULT NULL,
`EmailId` varchar(120) DEFAULT NULL,
`MobileNumber` char(11) DEFAULT NULL,
`Password` varchar(120) DEFAULT NULL,
`Status` int(1) DEFAULT NULL,
`RegDate` timestamp NULL DEFAULT current_timestamp(),
`UpdationDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

ALTER TABLE `tblstudents`
ADD PRIMARY KEY (`id`),
ADD UNIQUE KEY `StudentId` (`StudentId`);
ALTER TABLE `tblstudents`
        MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=12;
```

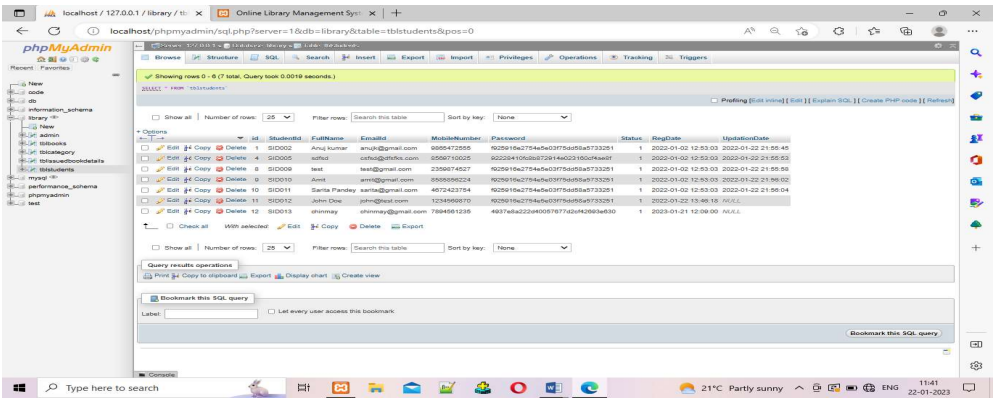


Figure: Student Table

CHAPTER 4
IMPLEMENTATION OF THE SYSTEM

4.1 Documentation of the System

This describes however the system works and the way best computers along with alternativeresources could also be applied to perform knowledge storage, management and retrieval for deciding. The necessity of this analysis work demand a web programing language.

4.1.1 Program Documentation

In order for the projected system to be used on any system it takes the subsequent ways:

i. Boot the system.
ii. Install the WAMP server. 40
iii. Turn server on (Active).
iv. Copy the folder to WWW within WAMP folder of the drive C: when WAMP serveris installed on the system.
v. Open any browser on the system (Microsoft internet explorer, Mozilla Firefox, Netscape Navigator, Opera, Flock, Safari etc.)
vi. Type http://localhost/fuoyelms/index.php on the address bar and press the return or enter key.

4.1.2 Procedure Design

This refers to the step by step methodology of using the projected system. The projected system includes of Administrator and therefore the general user environment. The steps touse the projected system are as follows:

- On the address bar of any browser type http://localhost/fuoyelms/index.php
- You are prompted to produce the username and password this verifies that you simplyare a registered user and has the privileged to use the library system otherwise you can't access the library
- If the username and password provided are correct as that of a user you're prompted with the home page with the list of available document that you'll be able to borrow orreturn based on selection.
- The username and password are in 2 formats as an administrator as well as a user.
- As an administrator you're to type http://localhost/fuoyelms/admin/index.php on theaddress bar'
- As an administrator you're prompted with the administrator page wherever the backend of the library exercise is dole out.

4.1.3Operating the System

The system developed needs the user to be trained by the programmer, this can change the user to be aware of the modules contained within the program and therefore the perform of every modules within the system are expected to be explained in details by the programmer.Before running the program, the application mentioned above needs to be installed on the private computer (PC) and launched obtain the user.

4.2 Output Design and Input Design

The output to be extracted from the projected system are as shown below:

RESULTS AND DISCUSSIONS:-

4.2.1 Home Page

This is the primary interface of the library management system, it provides the basic page wherever user and admin will click on to access the library system. The home, about, admin user and sections are entailed during this page. Each the admin and also the users of the librarywill access the home page of the library because it has been authorized for use.

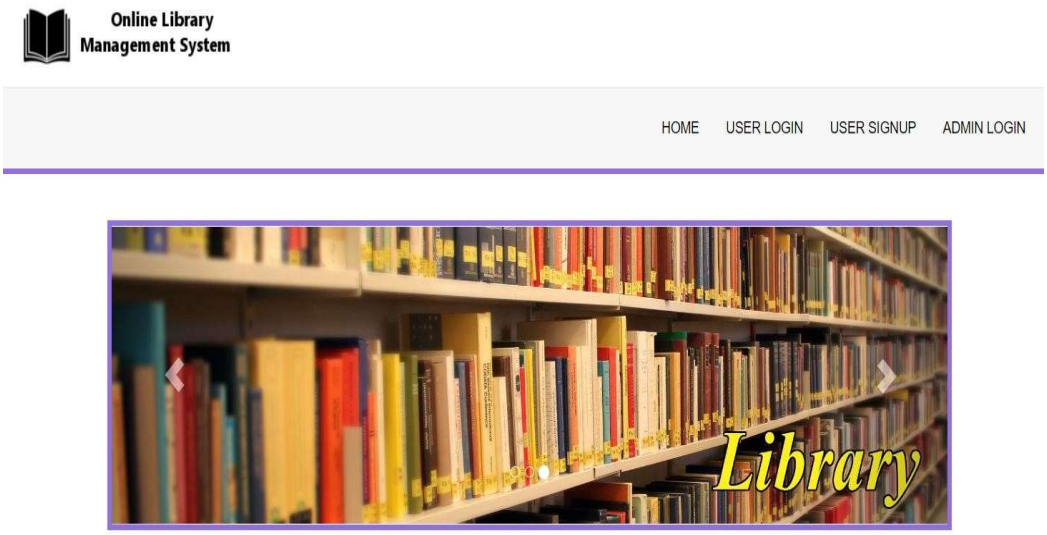


Figure : The home page is shown in this screenshot

4.2.2 Admin Login

A login page will be displayed if the user is legitimate after entering the website's main page and selecting the ADMIN LOGIN option, where they are requested to enter their username and password.

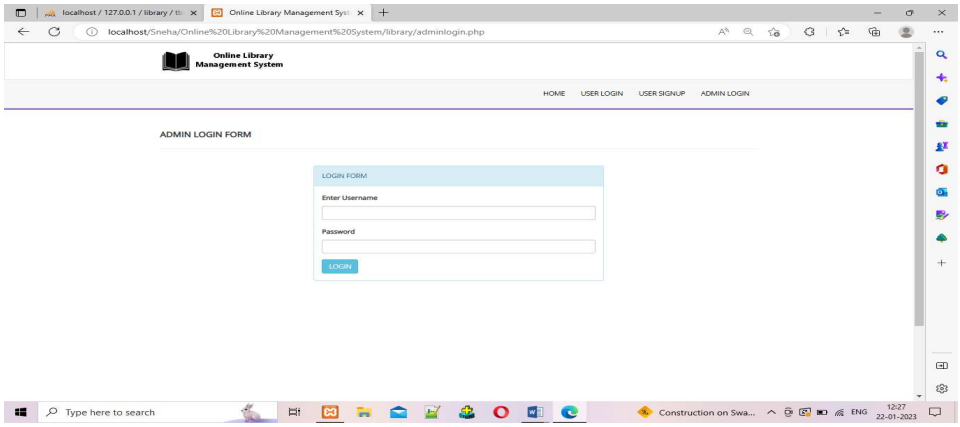


Figure : Admin Login Page as shown in this snapshot

4.2.3 NEW USER

After being added as a user, the user will then have his/her login like the username and password therefore as to get access to the library system.

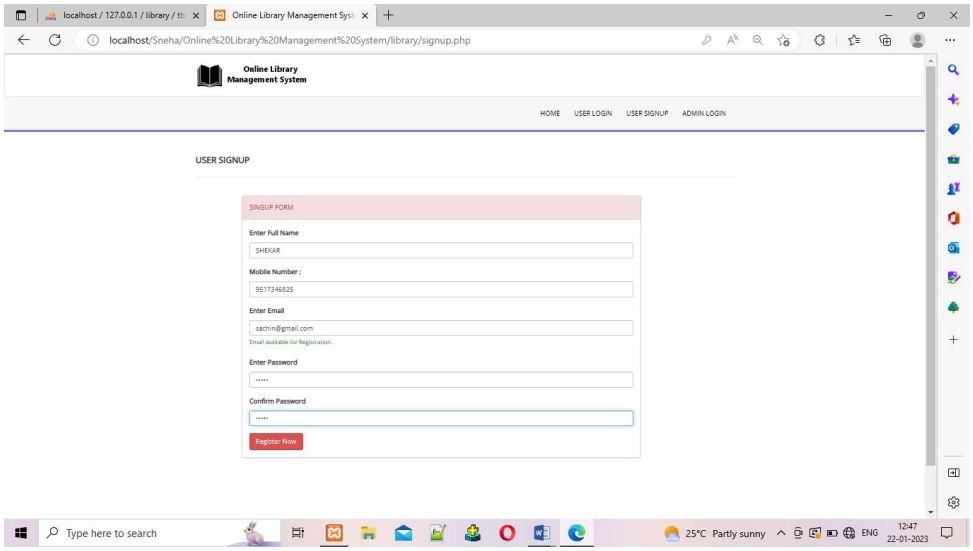


Figure : New User Signup page snapshot

4.2.4 User login

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

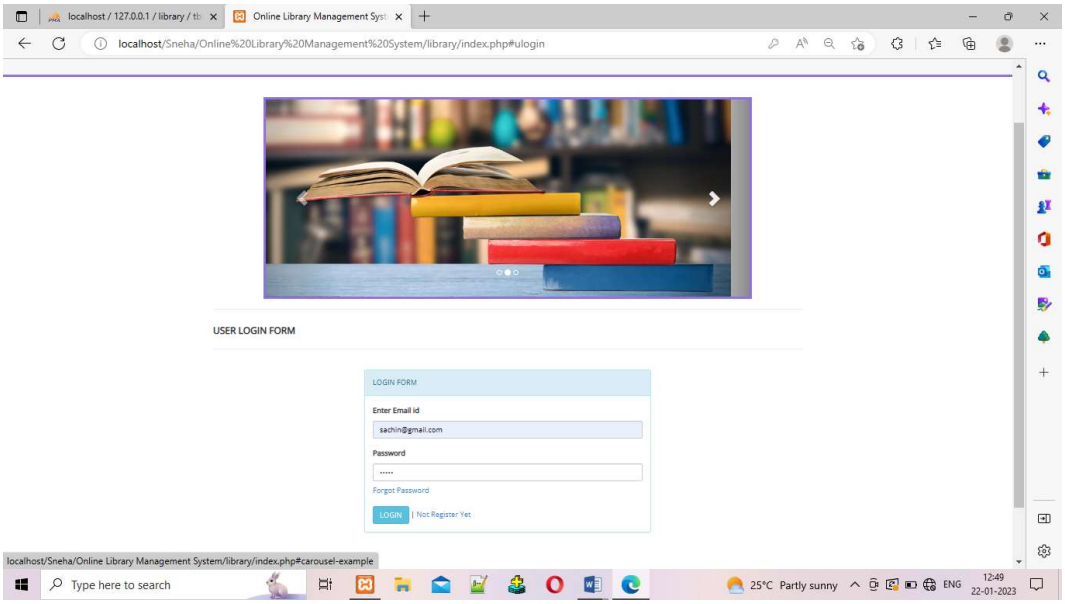
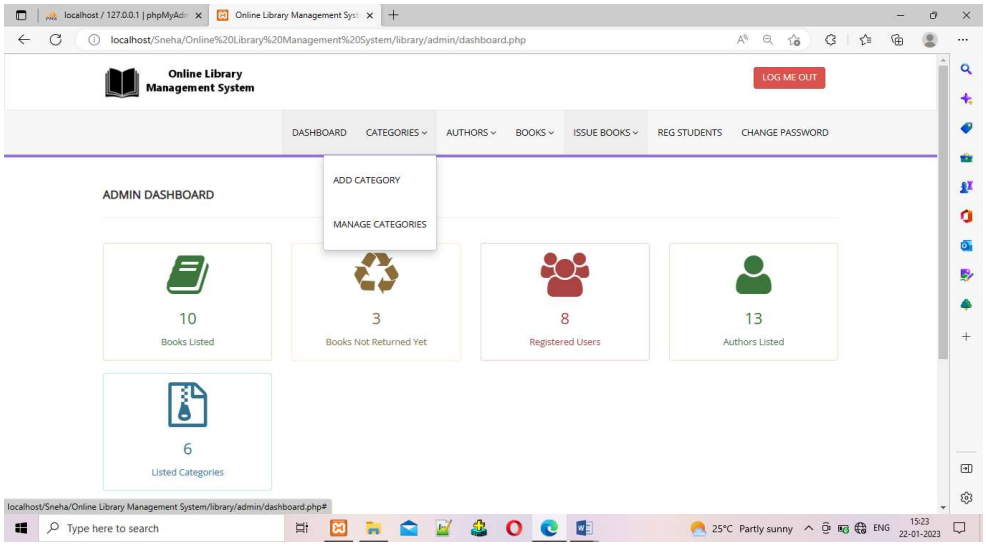
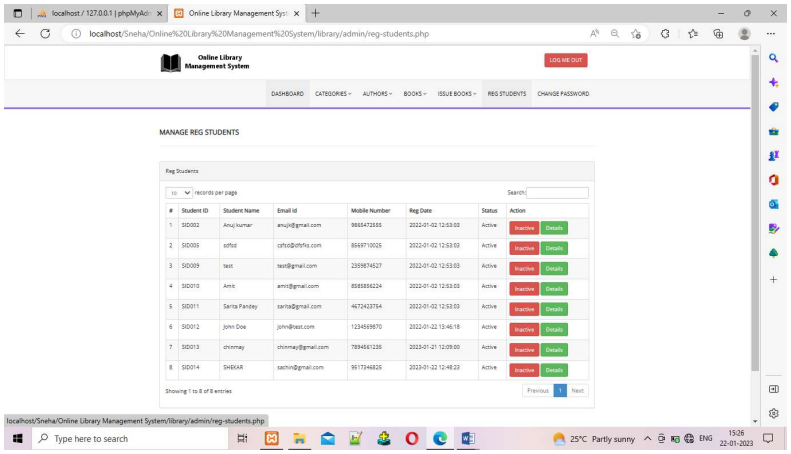


Figure: User Login Page Snapshot

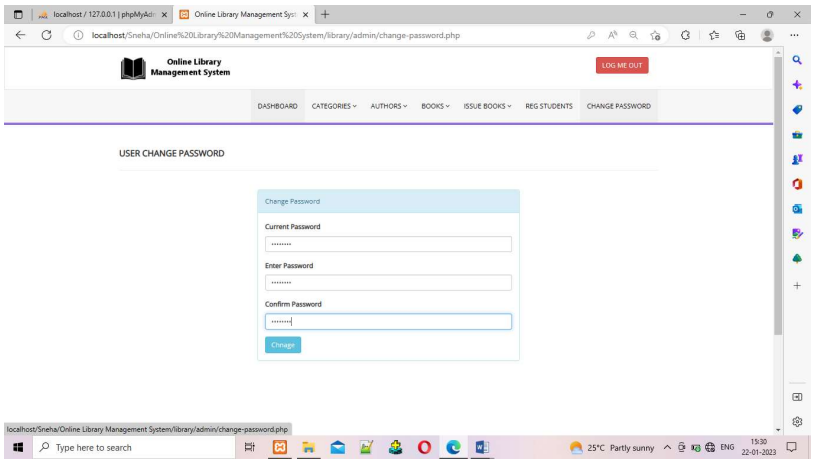
4.2.5 Admin Dashboard



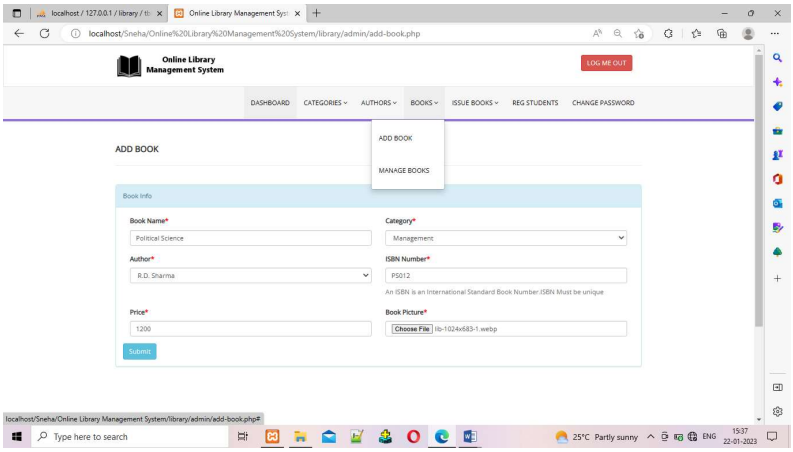
4.2.6 Manage Students



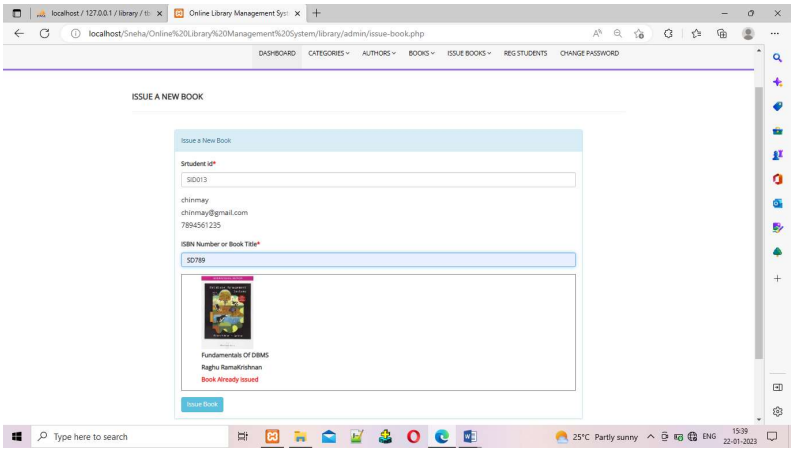
4.2.7 Change Password



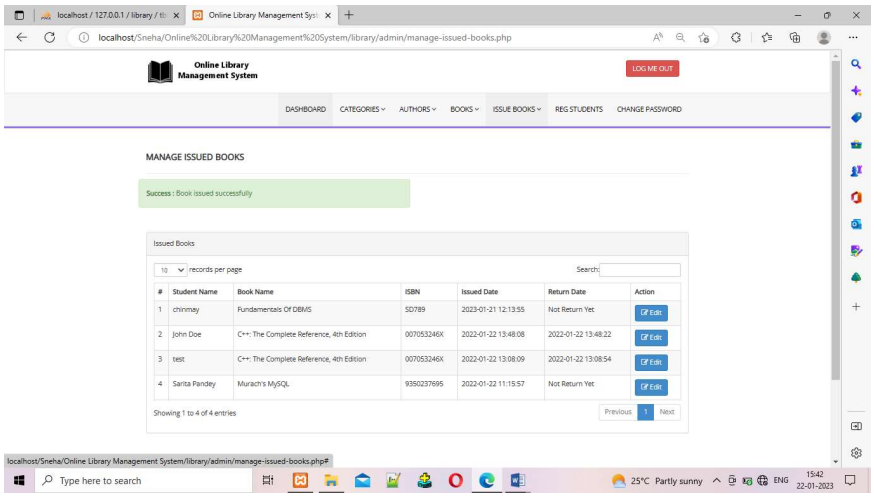
4.2.8 Add Books



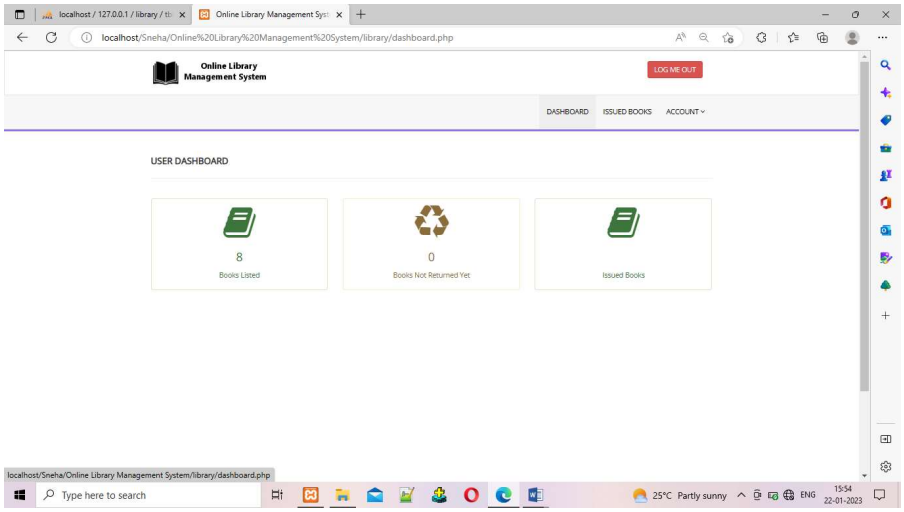
4.2.9 Issue New Book



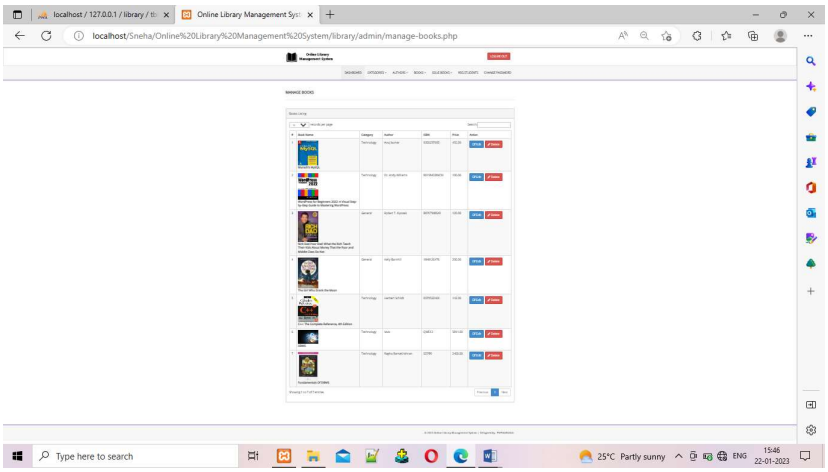
4.3.0 Manage Issued Books



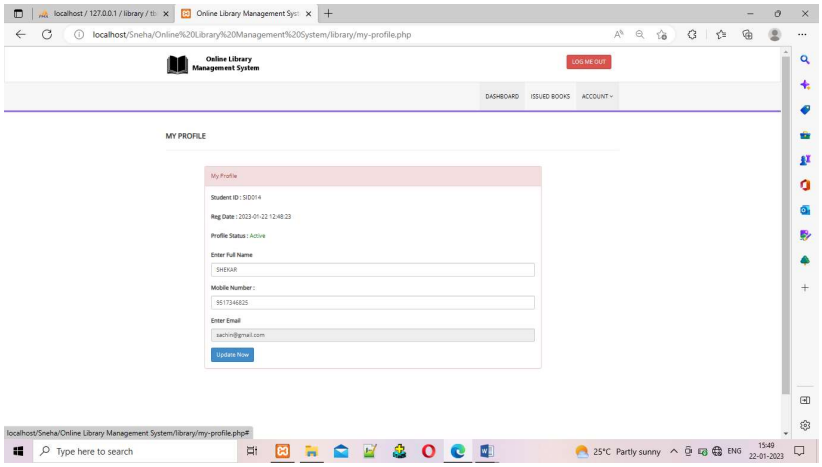
4.3.1 User Dashboard



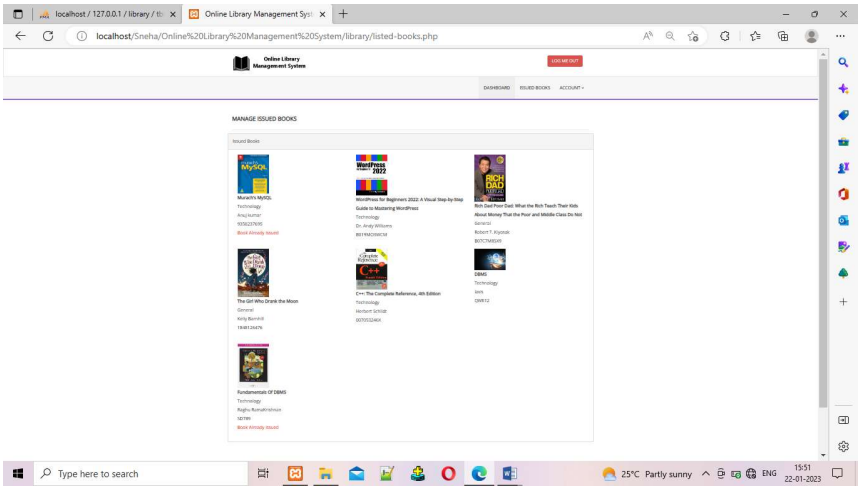
4.3.1 Manage Books



4.3.2 User Information



4.3.3 User : Manage Issued Books



CHAPTER 5

SOURCE CODE

5.1 AdminLogin.php

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if($_SESSION['alogin']!=''){
$_SESSION['alogin']='';
}
if(isset($_POST['login']))
{
$username=$_POST['username'];
$password=md5($_POST['password']);
$sql ="SELECT UserName,Password FROM admin WHERE UserName=:username and
    Password=:password";
$query= $dbh -> prepare($sql);
$query-> bindParam(':username', $username, PDO::PARAM_STR);
$query-> bindParam(':password', $password, PDO::PARAM_STR);
$query-> execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
$_SESSION['alogin']=$_POST['username'];
```

```
echo "<script type='text/javascript'> document.location ='admin/dashboard.php'; </script>";
} else{
echo "<script>alert('Invalid Details');</script>";
}
}
?>
<!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">
<div class="row pad-botm">
<div class="col-md-12">
<h4 class="header-line">ADMIN LOGIN FORM</h4>
</div>
</div>
<!--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 Username</label>
<input class="form-control" type="text" name="username" autocomplete="off" required />
</div>
<div class="form-group">
<label>Password</label>
<input class="form-control" type="password" name="password" autocomplete="off" required />
</div>
 <button type="submit" name="login" class="btn btn-info">LOGIN </button>
```

```
</form>
 </div>
</div>
</div>
</div>
<!---LOGIN PABNEL 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>
</script>
</body>
     </html>
```

5.2 Add-Categary.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']))
{
$category=$_POST['category'];
$status=$_POST['status'];
$sql="INSERT INTO  tblcategory(CategoryName,Status) VALUES(:category,:status)";
$query = $dbh->prepare($sql);
$query->bindParam(':category',$category,PDO::PARAM_STR);
$query->bindParam(':status',$status,PDO::PARAM_STR);
$query->execute();
$lastInsertId = $dbh->lastInsertId();
if($lastInsertId)
{
$_SESSION['msg']="Brand Listed successfully";
header('location:manage-categories.php');
}
else
{
$_SESSION['error']="Something went wrong. Please try again";
header('location:manage-categories.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 Categories</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 category</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">
Category Info
</div>
<div class="panel-body">
<form role="form" method="post">
<div class="form-group">
<label>Category Name</label>
<input class="form-control" type="text" name="category" autocomplete="off" required />
</div>
<div class="form-group">
<label>Status</label>
 <div class="radio">
<label>
<input type="radio" name="status" id="status" value="1" checked="checked">Active
</label>
</div>
<div class="radio">
<label>
<input type="radio" name="status" id="status" value="0">Inactive
```

```
</label>
</div>
</div>
<button type="submit" name="create" class="btn btn-info">Create </button>
                                </form>
                            </div>
                        </div>
                            </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 } ?>
```

5.2 Listed-Books.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');?>
<!-- MENU SECTION END-->
    <div class="content-wrapper">
         <div class="container">
        <div class="row pad-botm">
            <div class="col-md-12">
                <h4 class="header-line">Manage 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">
<?php                    $sql                    =                    "SELECT
    tblbooks.BookName,tblcategory.CategoryName,tblauthors.AuthorName,tblbooks.ISBNNumber,tblbooks.
```

```
BookPrice,tblbooks.id as bookid,tblbooks.bookImage,tblbooks.isIssued from  tblbooks join tblcategory on
tblcategory.id=tblbooks.CatId join tblauthors on tblauthors.id=tblbooks.AuthorId";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{               ?>
<div class="col-md-4" style="float:left; height:300px;">
<img src="admin/bookimg/<?php echo htmlentities($result->bookImage);?>" width="100">
                                        <br /><b><?php echo htmlentities($result->BookName);?></b><br />
                                        <?php echo htmlentities($result->CategoryName);?><br />
                                    <?php echo htmlentities($result->AuthorName);?><br />
                                    <?php echo htmlentities($result->ISBNNumber);?><br />
                                        <?php if($result->isIssued=='1'): ?>
<p style="color:red;">Book Already issued</p>
<?php endif;?>
                        </div>
                <?php $cnt=$cnt+1;}} ?>
                    </div>
                </div>
                <!--End Advanced Tables -->
            </div>
        </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>
    <!-- DATATABLE SCRIPTS  -->
    <script src="assets/js/dataTables/jquery.dataTables.js"></script>
    <script src="assets/js/dataTables/dataTables.bootstrap.js"></script>
      <!-- CUSTOM SCRIPTS  -->
    <script src="assets/js/custom.js"></script>
</body>
</html>
     <?php } ?>
```

5.3 Reg-Students.php

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
```

```
if(strlen($_SESSION['alogin'])==0)
    {
header('location:index.php');
}
else{
// code for block student
if(isset($_GET['inid']))
{
$id=$_GET['inid'];
$status=0;
$sql = "update tblstudents set Status=:status  WHERE id=:id";
$query = $dbh->prepare($sql);
$query -> bindParam(':id',$id, PDO::PARAM_STR);
$query -> bindParam(':status',$status, PDO::PARAM_STR);
$query -> execute();
header('location:reg-students.php');
}
//code for active students
if(isset($_GET['id']))
{
$id=$_GET['id'];
$status=1;
$sql = "update tblstudents set Status=:status  WHERE id=:id";
$query = $dbh->prepare($sql);
$query -> bindParam(':id',$id, PDO::PARAM_STR);
$query -> bindParam(':status',$status, PDO::PARAM_STR);
```

```
$query -> execute();
header('location:reg-students.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 | Manage Reg Students</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');?>
```

```
<!-- MENU SECTION END-->
    <div class="content-wrapper">
         <div class="container">
        <div class="row pad-botm">
            <div class="col-md-12">
                <h4 class="header-line">Manage Reg Students</h4>
    </div>
 </div>
            <div class="row">
                <div class="col-md-12">
                    <!-- Advanced Tables -->
                    <div class="panel panel-default">
                        <div class="panel-heading">
                          Reg Students
                        </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>Student ID</th>
                                            <th>Student Name</th>
                                            <th>Email id </th>
                                            <th>Mobile Number</th>
                                            <th>Reg Date</th>
```

```
                                    <th>Status</th>
                                    <th>Action</th>
                                </tr>
                            </thead>
                            <tbody>
<?php $sql = "SELECT * from tblstudents";
$query = $dbh -> prepare($sql);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{               ?>
                                <tr class="odd gradeX">
                                    <td class="center"><?php echo htmlentities($cnt);?></td>
                                    <td class="center"><?php echo htmlentities($result->StudentId);?></td>
                                    <td class="center"><?php echo htmlentities($result->FullName);?></td>
                                    <td class="center"><?php echo htmlentities($result->EmailId);?></td>
                                    <td class="center"><?php echo htmlentities($result->MobileNumber);?></td>
                                     <td class="center"><?php echo htmlentities($result->RegDate);?></td>
                                    <td class="center"><?php if($result->Status==1)
                                    {
                                        echo htmlentities("Active");
                                    } else {
                                    echo htmlentities("Blocked");
```

```
}
                                    ?></td>
                                    <td class="center">
<?php if($result->Status==1)
 {?>
<a href="reg-students.php?inid=<?php echo htmlentities($result->id);?>" onclick="return confirm('Are you sure you want to block this student?');" > <button class="btn btn-danger"> Inactive</button>
<?php } else {?>
<a href="reg-students.php?id=<?php echo htmlentities($result->id);?>" onclick="return confirm('Are you sure you want to active this student?');"><button class="btn btn-primary"> Active</button>
                                    <?php } ?>

<a href="student-history.php?stdid=<?php echo htmlentities($result->StudentId);?>"><button class="btn btn-success"> Details</button>
                                </td>
                                    </tr>
 <?php $cnt=$cnt+1;}} ?>
                                </tbody>
                            </table>
                        </div>
                    </div>
                </div>
                <!--End Advanced Tables -->
            </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>
    <!-- DATATABLE SCRIPTS  -->
    <script src="assets/js/dataTables/jquery.dataTables.js"></script>
    <script src="assets/js/dataTables/dataTables.bootstrap.js"></script>
      <!-- CUSTOM SCRIPTS  -->
    <script src="assets/js/custom.js"></script>
</body>
</html>
      <?php } ?>
```

5.4 Issuebookdetails.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 (){}
});
}
</script>
<style type="text/css">
  .others{
    color:red;
}
</style>
</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">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.RetrunStatus,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";
$query = $dbh -> prepare($sql);
$query->bindParam(':rid',$rid,PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
```

```
{
foreach($results as $result)
{               ?>
<input type="hidden" name="bookid" value="<?php echo htmlentities($result->bid);?>">
<h4>Student Details</h4>
<hr />
<div class="col-md-6">
<div class="form-group">
<label>Student ID :</label>
<?php echo htmlentities($result->StudentId);?>
</div></div>
<div class="col-md-6">
<div class="form-group">
<label>Student Name :</label>
<?php echo htmlentities($result->FullName);?>
</div></div>
<div class="col-md-6">
<div class="form-group">
<label>Student Email Id :</label>
<?php echo htmlentities($result->EmailId);?>
</div></div>
<div class="col-md-6">
<div class="form-group">
<label>Student Contact No :</label>
<?php echo htmlentities($result->MobileNumber);?>
</div></div>
```

```
<h4>Book Details</h4>
<hr />
<div class="col-md-6">
<div class="form-group">
<label>Book Image :</label>
<img src="bookimg/<?php echo htmlentities($result->bookImage); ?>" width="120">
</div></div>
<div class="col-md-6">
<div class="form-group">
<label>Book Name :</label>
<?php echo htmlentities($result->BookName);?>
</div>
</div>
<div class="col-md-6">
<div class="form-group">
<label>ISBN :</label>
<?php echo htmlentities($result->ISBNNumber);?>
</div>
</div>
<div class="col-md-6">
<div class="form-group">
<label>Book Issued Date :</label>
<?php echo htmlentities($result->IssuesDate);?>
</div></div>
<div class="col-md-6">
<div class="form-group">
```

```
<label>Book Returned Date :</label>
<?php if($result->ReturnDate=="")
                                    {
                                       echo htmlentities("Not Return Yet");
                                    } else
                        echo htmlentities($result->ReturnDate);
}
                                    ?>
</div>
</div>
<div class="col-md-12">
<div class="form-group">
<label>Fine (in USD) :</label>
<?php
if($result->fine=="")
{?>
<input class="form-control" type="text" name="fine" id="fine"  required />
<?php }else {
echo htmlentities($result->fine);
}
?>
</div>
</div>
 <?php if($result->RetrunStatus==0){?>
<button type="submit" name="return" id="submit" class="btn btn-info">Return Book </button>
</div>
```

```
<?php }}} ?>
                        </form>
                      </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 } ?>
```

CHAPTER 6

CONCLUSION AND REFERENCES

6.1 Summary

The quest to create life easier and process quicker has led to automation of various processes. Computer technology has reworked such a lot of sectors particularly the academic sector in nosmall measure. In a trial to foster technology driven education, a Library.

Management System has been developed to manage all library operations like borrowing, returning of books etc.

6.2 Conclusion

In conclusion, from correct analysis and assessment of the designed system it may be safely finished that the system is an effective, usable and reliable Library Management System. it's operating properly and adequately meets the minimum expectations that were for it at the start.

The new system is predicted to convey advantages to the users and employees in terms of efficiency within the usage of library system.

6.3 Scope of the Project

This project will produce a Library Management System for automating the major operationalprocesses of libraries. The first subsystem is the registration of users for the system to maintaina list of authorized users. The second component is the registration of new books into the librarymanagement system to keep its record of books. The third scheme could be a borrower and return of books that is the major space required by the user. There are three end users for the Library Management System. They are the admin, users and members.

6.4 REFERENCES

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