LIBRARY MANAGEMENT SYSTEM
USING CONCEPTS OF DATABASE

A report submitted in partial fulfillment of the requirements

Of

Mini-Project (IS45)

In

Fourth Semester

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I n s t i t u t e   o f   T e c h n o l o g y

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING
RAMAIAH INSTITUTE OF TECHNOLOGY
(AUTONOMOUS INSTITUTE AFFILIATED TO VTU)

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CERTIFICATE

This is to certify that the project work entitled **"Library Management System using Database"** is a bonafide work carried out by **Komal Raj S** bearing **USN: 1MS21IS049** in partial fulfillment of requirements of Mini-Project (IS65) of Sixth Semester B.E. It is certified that all corrections/suggestions indicated for internal assessment has been incorporated in the report. The project has been approved as it satisfies the academic requirements in respect of project work prescribed by the above said course.

_____   _____
Signature of the Guide   Signature of the HOD
Mr. Mushtaq Ahmed D M   **Dr. Sanjay H A**
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2.

Abstract

A Library Management System is a project that tries to create an automated and computerised version for a library so that the daily work of a library can be managed and monitored easily and efficiently. Earlier, the librarian used to manage the whole work in manual mode in the form of files and record books. Also, the process of adding new books, new students, issuing and returning books had to be managed in a manual manner which is very slow and inefficient. The library management system resolves this problem and provide a better solution to this. It provides a user-friendly interface application to the librarian where he can do all the operations of a library very easily. The application mainly consists of three modules which are admin module, librarian module and student module. The admin module will be managed by the system administrator. He manages the overall functioning of the application. The librarian module will be accessed by the librarian. He can perform various operations inside the application such as add new students, new books to the database, issuing and returning of books, updating student's details, book's details, generating weekly/monthly reports etc. The student module can be accessed by the registered students only. The operations that can be performed by the student includes: view all books available in the library, search the availability of a particular book, number of books he has issued, overall fine he has to pay etc. These three modules are interconnected with each other and also with the database. The application is built using Java technology and Sql database.

TABLE OF CONTENTS

INTRODUCTION

1.1 Background

Traditionally, the librarian managed the whole work in a manual mode or recording the work details in a record book. He has to manage all the work related to library such as issuing books to the students, returning books from the students, maintaining all the details of the books, adding new students, new books etc. on a daily basis. But with the increase in the number of user/students and number of books in a library, this management process has become slow and complex. So, a better management of the library work is required.

The purpose of the library management system is to automate and digitize this traditional way of managing the library work. The Library Management System is much more user-friendly, faster in operation and easy to manage than the manual one. Through the use of it, the librarian can manage the whole data of the library in a single database in different tables with a much more security than the traditional way. In a library, tasks like issue/return/add new students/add new books/ checking any discrepancy in stock, calculating fine for overdue books etc. are performed on a daily basis and suppose a student asks for a particular book from a librarian then he has to search the book manually which takes a lot of time and there are chances of human error in that process as well. But with the help of LMS, the searching of books has become quite easy and fast and the librarian only needs to enter the book id in the search section of the application. Similarly, if a new student has to be added as a registered member of the library or an existing student has to be removed then this process has become very easy to perform. So, all these kinds of operations can be digitized and performed efficiently by using a library management system.

1.2 Introduction to project

An online library management system is a practical solution for the existing issues of the traditional library system. It is basically a windows application that is built mainly on Java technology and relational database (sql). The similar application can also be built using the web technologies like HTML, CSS and JavaScript and a corresponding database, that can be a relational database like sql.

Using this application software, the librarian can search any book by using the issued book id of that particular book in just a second. He can also add new students, new books to the library database, can issue books, return books by making the necessary changes to the database part from the application user-interface. The whole application is divided into different section depending upon its usage.

1. Admin Module: The librarian has full access to the admin module. So, whenever a librarian opens the application, he has to login in the application with the user id and password provided. The various actions that he can undertake are visible on the home screen after a successful login. The operations he can perform includes: add new students, add new books, issue books, return books, updating student's details, updating book's details, sending messages to the students regarding various issues (like overdue of the issue book), generating weekly/monthly reports, monitoring any discrepancy in the books stock.

2. Student Module: The student module contains details about all the students registered with the library. Only the librarian can register the students with the application after successful verification. The operations that student can perform inside the student module includes: view all books available in the library, search the availability of a particular book, number of books he has issued from the library, overall fine that he has to pay, submit the queries. Apart from this, the students can cancel their registration from the library.

ER diagram
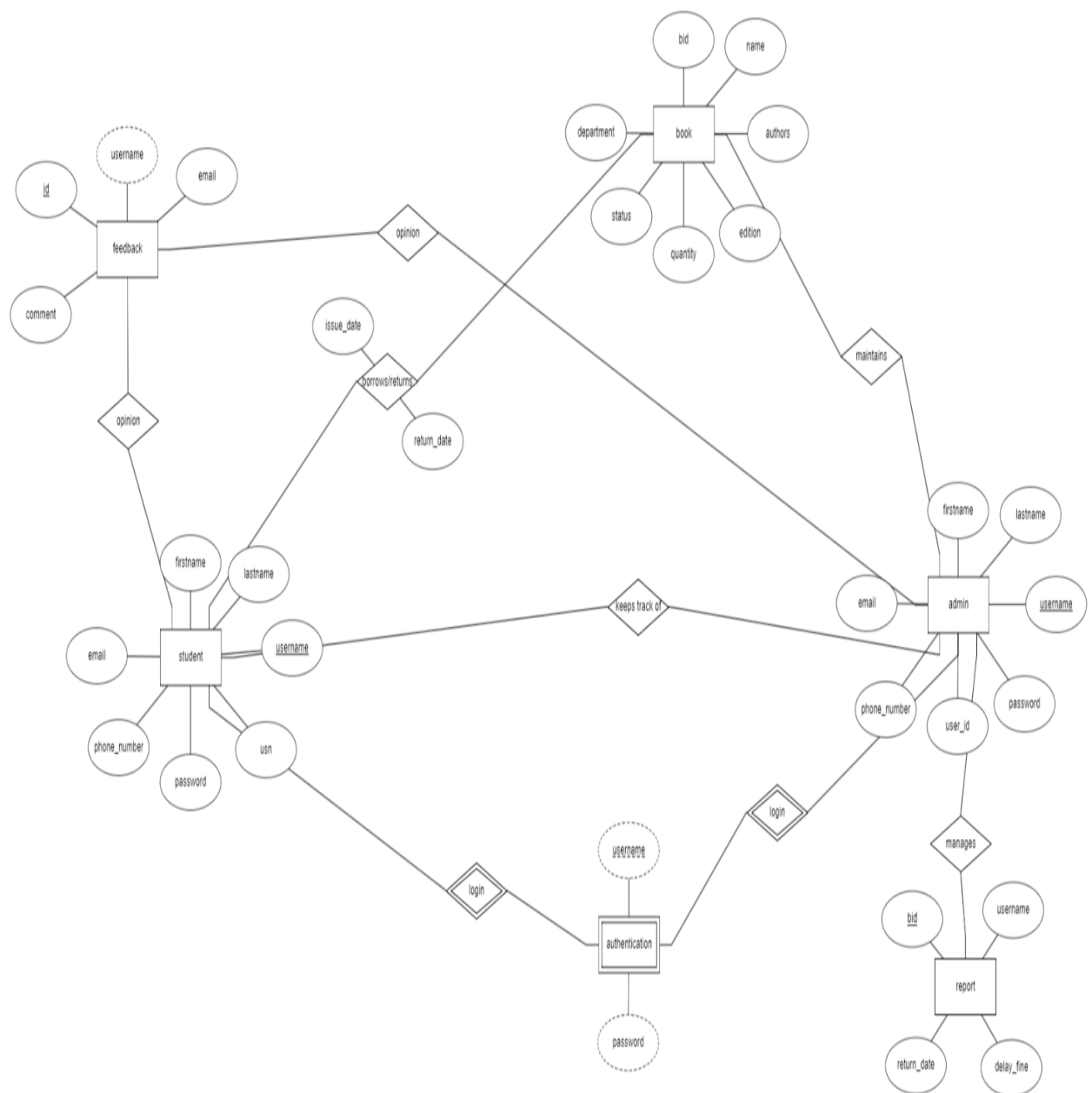
Relational Schema Diagram
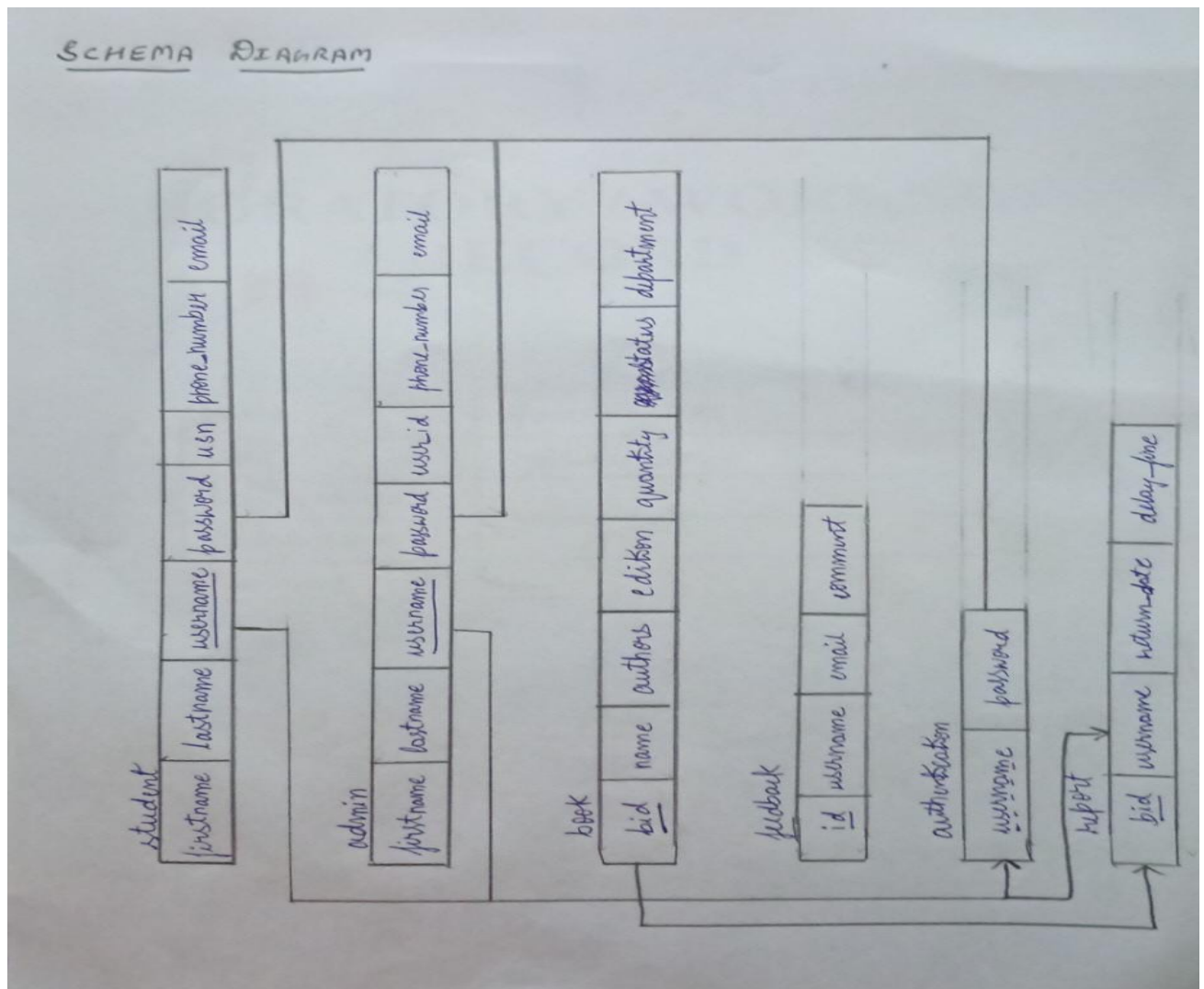
TECHNOLOGY STACK:

FRONT END — HTML, CSS, JavaScript: This basic but powerful combo comprises of HTML (a scripting language) for giving structure to our website, CSS (Cascading Style Sheets) for design, and Javascript for adding functionality.

BACK END — PHP: PHP (Hypertext Preprocessor) is known as a general-purpose scripting language that can be used to develop dynamic and interactive websites. It was among the first server-side languages that could be embedded into HTML, making it easier to add functionality to web pages without needing to call external files for data.

DATABASE — MySql: MySQL is an open-source relational database management system. For WordPress sites, that means it helps you store all your blog posts, users, plugin information, etc. It stores that information in separate "tables" and connects it with "keys", which is why it's relational.

DISCUSSION OF CODE SEGMENTS

Connection.php

```php
<?php

    $db =
mysqli_connect("localhost","id21048182_root","Twinkle*1","id21048182_librarymanagementsyst
em");    //server_name,username,password,database

    if(!$db)
    {
        die("Connection failed : ".mysqli_connect_error());
    }

    ?>
```

admin_index.php

```php
<?php
    session_start();

?>


<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Library Management System</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
    <div class="wrapper">
        <header>
            <div class="logo">
                <img src="images/Ramaiah_Institutions_Logo.png">
```

```php
            <h1 style="color: white;">LIBRARY MANAGEMENT SYSTEM</h1>
        </div>

        <?php
          if(isset($_SESSION['login_user']))
          {?>

          <nav>
            <ul>
              <li style="color:white"><?php echo($_SESSION['login_user']); ?> |</li>
              <li><a href="admin_index.php">HOME</a></li>
              <li><a href="admin_books.php">BOOKS</a></li>
              <li><a href="logout.php">LOGOUT</a></li>
              <li><a href="student.php">STUDENT_INFORMATION</a></li>
              <li><a href="admin_fine.php">STUDENT_FINE</a></li>
              <li><a href="admin_feedback.php">FEEDBACK</a></li>
            </ul>
          </nav>
          <?php
          }

          else{?>
            <nav>
            <ul>
              <li><a href="admin_index.php">HOME</a></li>
              <li><a href="admin_books.php">BOOKS</a></li>
              <li><a href="student.php">STUDENT_INFORMATION</a></li>
              <li><a href="admin_fine.php">STUDENT_FINE</a></li>
              <li><a href="admin_login.php">ADMIN_LOGIN</a></li>
              <li><a href="admin_feedback.php">FEEDBACK</a></li>
            </ul>
            </nav>
          <?php
          }
        ?>


    </header>
    <section>
      <div class="index_section">
        <br><br><br><br><br><br>
        <div class="box">
          <br><br>
          <h1 style="text-align: center;font-size: 20px;color:#fbfcfb;">Welcome  To  The</h1>
          <div class="heading"><h1 style="text-align: center;font-size: 30px;
font-family:'Times New Roman';color:#fbfcfb;">Advanced  Library</h1><br><br></div>
          <h1 style="text-align: center;font-size: 20px;">Opens at : 9:00 AM</h1><br>
```

```
          <h1 style="text-align: center;font-size: 20px;">Closes at : 9:00 PM</h1><br>
        </div>
        <br><br><br><br><br><br><br>
      </div>
    </section>
    <footer>


    </footer>
  </div>
</body>
</html>
```

add.php

```php
<?php
   include "connection.php";
   session_start();

?>
```

```php
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Add_Books</title>
   <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>

   <div class="wrapper" style="height: 860px;" >
     <header>
        <div class="logo">
           <img src="images/Ramaiah_Institutions_Logo.png">
           <h1 style="color: white;">LIBRARY MANAGEMENT SYSTEM</h1>
        </div>
        <?php
           if(isset($_SESSION['login_user']))
           {?>

           <nav>
             <ul>
                <li style="color:white"><?php echo($_SESSION['login_user']); ?> |</li>
                <li><a href="admin_index.php">HOME</a></li>
                <li><a href="admin_books.php">BOOKS</a></li>
                <li><a href="student.php">STUDENT_INFORMATION</a></li>
```

```php
            <li><a href="admin_fine.php">STUDENT_FINE</a></li>
            <li><a href="logout.php">LOGOUT</a></li>
            <li><a href="admin_feedback.php">FEEDBACK</a></li>
        </ul>
    </nav>
    <?php
    }

    else{?>
        <nav>
        <ul>
            <li><a href="admin_index.php">HOME</a></li>
            <li><a href="admin_books.php">BOOKS</a></li>
            <li><a href="admin_login.php">ADMIN_LOGIN</a></li>
            <li><a href="student.php">STUDENT_INFORMATION</a></li>
            <li><a href="admin_fine.php">STUDENT_FINE</a></li>
            <li><a href="admin_feedback.php">FEEDBACK</a></li>
        </ul>
        </nav>
    <?php
    }
    ?>



</header>

<div id ="mySidenav"class="sidenav">
        <a href="javascript:void(0)" class="closebtn" onclick="closeNav()">&times;</a>

    <div style="color: white; margin-left: 60px; font-size: 20px;">

        <?php
        if(isset($_SESSION['login_user']))
        {
            echo "Welcome ".$_SESSION['login_user'];
        }
        ?>
    </div>
    <br><br>

    <a href="admin_books.php">Books</a>
    <a href="add.php">Add Books</a>
    <a href="admin_request.php">Book Request</a>
    <a href="admin_issue">Issue Information</a>
    <a href="admin_expire.php">Expired/Returned List</a>
```

```html
        </div>

        <div id="main">

            <span style="font-size:30px;cursor:pointer;" onclick="openNav()">&#9776;</span>



            <script>
                function openNav() {
                document.getElementById("mySidenav").style.width = "300px";
                document.getElementById("main").style.marginLeft = "300px";
                document.body.style.backgroundColor = "rgb(0,0,0,0.4)";
                }

            function closeNav() {
                document.getElementById("mySidenav").style.width = "0";
                document.getElementById("main").style.marginLeft= "0";
                document.body.style.backgroundColor = "#0A1828";
                }
            </script>
        </div>

        <section style="height:628px;">
        <div class="addbook_bg">
            <nav class="signup_left"><br><br><br><br><br><br><br><br><br><br>
                      <img src="images/addbook.png"
height="100px" width="200px"><br><br>
                <div class="signup_left_writing">
                    <h1 style="text-align: center;font-family:sans-serif;font-weight: bolder;font-size:
50px;">Add books</h1><br>
                </div>
            </nav>
            <nav class="signup_form">
                <div class="addbook_writing" style="opacity:1;">

                    <form name="signup" action="" method="post">
                        BOOK ID<br>
                        <input type="text" name="bid" placeholder="Book ID" required > <br> <br>
                        BOOK NAME<br>
                        <input type="text" name="name" placeholder="Book Name" required> <br>
<br>

                        AUTHORS<br>
                        <input type="text" name="authors" placeholder="Authors" required> <br> <br>
                        EDITION<br>
                        <input type="text" name="edition" placeholder="Edition" required> <br> <br>
                        STATUS<br>
```

```html
            <input type="text" name="status" placeholder="Status" required> <br> <br>
            QUANTITY<br>
            <input type="text" name="quantity" placeholder="Quantity" required> <br>
<br>

            DEPARTMENT<br>
            <input type="text" name="department" placeholder="Department" required>
<br> <br>


            <button style="font-family: Arial; font-weight: bolder;color:
white;background-color: darkgreen; height:25px; width:100px;" type="submit"
name="submit">ADD</button>
        </form>
        <p style="font-size: medium;">
            <br><br>

        </p>
    </div>
  </nav>
 </div>
</section>

<?php

    if(isset($_POST['submit']))
    {
      if(isset($_SESSION['login_user']))
      {
        $sql = "INSERT INTO book
VALUES('$_POST[bid]','$_POST[name]','$_POST[authors]','$_POST[edition]','$_POST[status]','
$_POST[quantity]','$_POST[department]')";
        mysqli_query($db,$sql);

        ?>
        <script type="text/javascript">
          alert("Book added successfully");
        </script>

        <?php
      }

      else{
      ?>
        <script type="text/javascript">
          alert("You need to login!");
        </script>
```

```php
            <?php

                }
            }

        ?>



        <footer>

        </footer>



</body>
</html>
```

admin_expire.php

```php
<?php
    include "connection.php";
    session_start();

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Books</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body style="background-color: #0A1828;">

    <div class="wrapper" style="height: 860px;" >
        <header>
            <div class="logo">
                <img src="images/Ramaiah_Institutions_Logo.png">
                <h1 style="color: white;">LIBRARY MANAGEMENT SYSTEM</h1>
            </div>
            <?php
                if(isset($_SESSION['login_user']))
                {?>

                <nav>
                    <ul>
```

```php
        <li style="color:white"><?php echo($_SESSION['login_user']); ?> |</li>
        <li><a href="admin_index.php">HOME</a></li>
        <li><a href="admin_books.php">BOOKS</a></li>
        <li><a href="logout.php">LOGOUT</a></li>
        <li><a href="student.php">STUDENT_INFORMATION</a></li>
        <li><a href="admin_fine.php">STUDENT_FINE</a></li>
        <li><a href="admin_feedback.php">FEEDBACK</a></li>
      </ul>
    </nav>
    <?php
    }

    else{?>
      <nav>
      <ul>
        <li><a href="admin_index.php">HOME</a></li>
        <li><a href="admin_books.php">BOOKS</a></li>
        <li><a href="student.php">STUDENT_INFORMATION</a></li>
        <li><a href="admin_login.php">ADMIN_LOGIN</a></li>
        <li><a href="admin_fine.php">STUDENT_FINE</a></li>
        <li><a href="admin_feedback.php">FEEDBACK</a></li>
      </ul>
      </nav>
    <?php
    }
  ?>


  </header>

  <div id ="mySidenav"class="sidenav">
      <a href="javascript:void(0)" class="closebtn" onclick="closeNav()">&times;</a>
    <div class="books_list"><h1 style="text-align: center; font-size:60px;
color:darkred;font-family:cursive;">List of books </h1></div>
    <div style="color: white; margin-left: 60px; font-size: 20px;">

    <?php
      if(isset($_SESSION['login_user']))
      {
        echo "Welcome ".$_SESSION['login_user'];
      }
    ?>
  </div>
  <br><br>
```

```html
<a href="admin_books.php"> Books </a>
<a href="add.php">Add Books </a>
<a href="admin_request.php">Request Information</a>
<a href="admin_issue.php">Issue Information</a>
<a href="admin_expire.php">Expired/Returned List</a>
</div>

<div id="main">

<span style="font-size:30px;cursor:pointer;color:antiquewhite;"
onclick="openNav()">&#9776;</span>


<script>
function openNav() {
  document.getElementById("mySidenav").style.width = "300px";
  document.getElementById("main").style.marginLeft = "300px";
  document.body.style.backgroundColor = "rgb(0,0,0,0.4)";
}

function closeNav() {
  document.getElementById("mySidenav").style.width = "0";
  document.getElementById("main").style.marginLeft= "0";
  document.body.style.backgroundColor = "#0A1828";
}
</script>

    <!--_____search bar_____-->
    <br>

        <div class="srch" style="float:right;padding-right:30px;">
                <form class="navbar-form" method="post" name="form">

        <input class="form-control" type="text" name="bid" placeholder="book_Id.."
required=""> <br><br>
        <input class="form-control" type="text" name="username" placeholder="Username..."
required=""> <br><br>
        <input class="form-control" type="text" name="usn" placeholder="USN..." required="">
<br><br>
                            <button style="background-color: #6db6b9e6; height:25px;
width:200px;color:darkblue;" type="submit" name="submit" >
        Return book
                            </button>
                </form><br><br>
    </div>
```

```html
<div style="margin-left:280px; margin-top:120px;">
            <form class="navbar-form" method="post" name="form1">

                                <button style="background-color: green; height:25px;
width:200px;color:gold;" type="submit" name="submit1" >
                                Returned List</button>          
 
            <button style="background-color: red; height:25px; width:200px;color:gold;"
type="submit" name="submit2" >
            Expired list
                                </button>
                </form><br><br>
    </div>

    <?php
        if(isset($_SESSION['login_user']))
        {

            $q = mysqli_query($db,"SELECT student.username,usn,firstname,
book.bid,name,authors,edition, issue_book.issue,return_date,approve FROM student INNER JOIN
issue_book ON student.username=issue_book.username INNER JOIN book ON
book.bid=issue_book.bid WHERE issue_book.approve!=" AND issue_book.approve!='Yes'
ORDER BY issue_book.return_date DESC;");
            if(isset($_POST['submit']))
            {
                $res = mysqli_query($db,"SELECT * FROM issue_book WHERE
username='$_POST[username]' AND bid = '$_POST[bid]';");
                //$res = mysqli_query($db,"SELECT * FROM issue_book WHERE
username='$_SESSION[login_user]' AND bid = '$_POST[bid]';");



                $var1 = '<p style="color:yellow;background-color:green;">Returned</p>';

                mysqli_query($db,"UPDATE issue_book SET approve = '$var1' WHERE username =
'$_POST[username]' and bid ='$_POST[bid]';");

                mysqli_query($db,"UPDATE book SET quantity = quantity+1 WHERE bid =
'$_POST[bid]';");


                $res = mysqli_query($db,"SELECT status FROM book WHERE bid =
'$_POST[bid]';");
                    while($row=mysqli_fetch_assoc($res))
                    {
                        if($row['status'] == 'Not Available')
```

```php
            {
                mysqli_query($db,"UPDATE book SET status = 'Available' WHERE
bid='$_POST[bid]';");
                }
            }

            $ret = '<p style="color:yellow;background-color:green;">Returned</p>';

        $r = mysqli_query($db,"SELECT * FROM issue_book WHERE
username='$_POST[username]' AND approve = '$ret';");

        $day = 0;

        while($row=mysqli_fetch_assoc($r))
        {
            $d = strtotime($row['return_date']);
            $c = strtotime(date("Y-m-d"));
            $diff = $c+1-$d;

            if($diff>0)
            {

                $day = floor($diff/(60*60*24));   //days


            }

        }
        $fine = $day*1;

        $x = date("Y-m-d");
        mysqli_query($db,"INSERT INTO fines VALUES
('$_POST[username]','$_POST[usn]','$_POST[bid]','$x','$day','$fine','not paid');");

        $q = mysqli_query($db,"SELECT student.username,usn,firstname,
book.bid,name,authors,edition, issue_book.issue,return_date,approve FROM student INNER JOIN
issue_book ON student.username=issue_book.username INNER JOIN book ON
book.bid=issue_book.bid WHERE issue_book.approve!='' AND issue_book.approve!='Yes'
ORDER BY issue_book.return_date DESC;");
        }

    if(isset($_POST['submit1']))
    {
        $ret = '<p style="color:yellow;background-color:green;">Returned</p>';
        $q = mysqli_query($db,"SELECT student.username,usn,firstname,
book.bid,name,authors,edition, issue_book.issue,return_date,approve FROM student INNER JOIN
```

```php
issue_book ON student.username=issue_book.username INNER JOIN book ON
book.bid=issue_book.bid WHERE issue_book.approve='$ret' ORDER BY issue_book.return_date
DESC;");

        }

        if(isset($_POST['submit2']))
        {
            $exp = '<p style="color:yellow;background-color:red;">Expired</p>';
            $q = mysqli_query($db,"SELECT student.username,usn,firstname,
book.bid,name,authors,edition, issue_book.issue,return_date,approve FROM student INNER JOIN
issue_book ON student.username=issue_book.username INNER JOIN book ON
book.bid=issue_book.bid WHERE issue_book.approve='$exp' ORDER BY
issue_book.return_date DESC;");

        }


        echo "<table class='table table-bordered table-hover' style='margin-left:75px;'>";
        echo "<tr
style='height:55px;font-size:20px;text-align:centre;border-color:black;background-color:#0049B7;
'>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Username"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"USN"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Name"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Book_ID"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Book_Name"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Authors"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Edition"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Issue_Date"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Return_Date"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Status"; echo "</th>";
        echo "</tr>";

    while($row=mysqli_fetch_assoc($q))
        {
```

```php
            echo "<tr style='background-color:#0C1A1A; ; height:50px;'>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['username']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['usn']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['firstname']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['bid']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['name']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['authors']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['edition']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['issue']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['return_date']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo $row['approve']; echo "</td>";
            echo "</tr>";

        }

        echo "</table>";



    }

    else{
        ?><h2 style="text-align:center; font-size:50px;">
        <?php
        echo "You need to login first!";
        ?></h2>

        <?php
    }



    ?>

    </div>
```

```
        </div>
    </body>
</html>
```

admin_fine.php

```php
<?php
    include "connection.php";
    session_start();


?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Fine</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body style='background-color:#feb300;'>

    <div class="wrapper" style="height: 860px;" >
        <header>
            <div class="logo">
                <img src="images/Ramaiah_Institutions_Logo.png">
                <h1 style="color: white;">LIBRARY MANAGEMENT SYSTEM</h1>
            </div>
            <?php
                if(isset($_SESSION['login_user']))
                {?>

                <nav>
                    <ul>
                        <li style="color:white"><?php echo($_SESSION['login_user']); ?> |</li>
                        <li><a href="admin_index.php">HOME</a></li>
                        <li><a href="admin_books.php">BOOKS</a></li>
                        <li><a href="logout.php">LOGOUT</a></li>
                        <li><a href="student.php">STUDENT_INFORMATION</a></li>
                        <li><a href="admin_fine.php">STUDENT_FINE</a></li>
                        <li><a href="admin_feedback.php">FEEDBACK</a></li>
                    </ul>
                </nav>
                <?php
                }
```

```php
      else{?>
        <nav>
        <ul>
          <li><a href="admin_index.php">HOME</a></li>
          <li><a href="admin_books.php">BOOKS</a></li>
          <li><a href="admin_login.php">ADMIN_LOGIN</a></li>
          <li><a href="student.php">STUDENT_INFORMATION</a></li>
          <li><a href="admin_fine.php">STUDENT_FINE</a></li>
          <li><a href="admin_feedback.php">FEEDBACK</a></li>
        </ul>
        </nav>
      <?php
      }
    ?>


    </header>

      <!--_____search bar_____-->
  <br>
      <div class="srch" style="float:right;padding-right:30px">
          <form class="navbar-form" method="post" name="form">

                            <input class="form-control" type="text" name="search"
placeholder="Enter student username..." required=""><br><br>
                            <button style="background-color: #6db6b9e6; height:25px;
width:100px;" type="submit" name="submit" >
        Search
                          </button>
          </form><br><br>

    <form class="navbar-form" method="post" name="form">

                            <input class="form-control" type="text" name="usn"
placeholder="Enter starting digits of usn..." required=""><br><br>
                            <button style="background-color: #6db6b9e6; height:25px;
width:100px;" type="submit2" name="submit2" >
        Search
                          </button>
          </form><br>

    <br><br><br>

          <form class="navbar-form" method="post" name="form1">
```

```html
                                    <input class="form-control" type="text" name="username"
placeholder="Enter student username..." required=""><br><br>
                                    <input class="form-control" type="text" name="bid"
placeholder="Enter Book Id..." required=""><br><br>
                                    <button style="background-color: #6db6b9e6; height:25px;
width:100px;" type="submit1" name="submit1" >
            PAID
                                    </button>
                    </form><br><br><br>

        <form class="navbar-form" method="post" name="form1">

            <input class="form-control" type="text" name="usn" placeholder="Enter starting digits
of usn..." required=""><br><br>
                                    <button style="background-color: #6db6b9e6; height:25px;
width:300px;" type="del" name="del" >
            DELETE NON-MEMBERS if PAID
                                    </button>
                    </form><br>
    </div>

    <?php
    if(isset($_SESSION['login_user']))
    {
    if(isset($_POST['submit1']))
    {
        mysqli_query($db,"UPDATE fines SET status='Paid' WHERE
username='$_POST[username]' AND bid = '$_POST[bid]';");
    }

    if(isset($_POST['del']))
    {
        mysqli_query($db,"DELETE FROM fines WHERE status='Paid' and
usn='$_POST[usn]';");
    }

    if(isset($_POST['submit'])||isset($_POST['submit2']))
      {
        if(isset($_POST['submit']))
        {
        $q=mysqli_query($db,"SELECT * from fines where username like
'%$_POST[search]%' WHERE fine>0 ORDER BY fines.returned DESC;");
        }

        if(isset($_POST['submit1']))
        {
```

```php
        $q=mysqli_query($db,"SELECT * from fines where usn like '%$_POST[usn]%'
WHERE fine>0 ORDER BY fines.returned DESC;");
        }

        if(mysqli_num_rows($q)==0)
        {
        ?>
            <script type = "text/javascript">
                alert('Sorry! No student found. Try searching again');
            </script>

            <script type = "text/javascript">

                window.location="admin_fine.php"

            </script>
        <?php
        }
        else
        {
            echo "<table class='table table-bordered table-hover' style='margin-left:75px;'>";
            echo "<tr
style='height:55px;font-size:25px;text-align:centre;border-color:black;background-color: #fff5d7;
'>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"Username";  echo "</th>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"USN";  echo "</th>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"Book_Id";  echo "</th>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"Returned";  echo "</th>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"Days_delayed";  echo "</th>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"Fine(₹)";  echo "</th>";
            echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>";  echo
"Status";  echo "</th>";
            echo "</tr>";

            while($row=mysqli_fetch_assoc($q))
            {
                echo "<tr style='background-color:#ff5e6c; height:50px;'>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['username']; echo "</td>";
```

```php
            echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['usn']; echo "</td>";
            echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['bid']; echo "</td>";
            echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['returned']; echo "</td>";
            echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['days']; echo "</td>";
            echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['fine']; echo "</td>";
            echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['status']; echo "</td>";
            echo "</tr>";
        }

        echo "</table>";
        }
    }
    else
    {

        $res=mysqli_query($db,"SELECT * FROM fines WHERE fine>0 ORDER BY returned
DESC;");

        echo "<table class='table table-bordered table-hover' style='margin-left:75px;'>";
        echo "<tr
style='height:55px;font-size:25px;text-align:centre;border-color:black;background-color: #fff5d7;
'>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"Username"; echo "</th>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"USN"; echo "</th>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"Book_Id"; echo "</th>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"Returned"; echo "</th>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"Days_delayed"; echo "</th>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"Fine(₹)"; echo "</th>";
        echo "<th style='border: 3px solid #2d545e;padding: 0.5rem;color:orange;'>"; echo
"Status"; echo "</th>";
        echo "</tr>";

        while($row=mysqli_fetch_assoc($res))
        {
```

```php
            echo "<tr style='background-color:#ff5e6c; height:50px;'>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['username']; echo "</td>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['usn']; echo "</td>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['bid']; echo "</td>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['returned']; echo "</td>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['days']; echo "</td>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['fine']; echo "</td>";
                echo "<td style='border: 3px solid #2d545e;padding: 0.5rem;
font-family:sans-serif;font-size:20px;color:black;'>"; echo $row['status']; echo "</td>";
                echo "</tr>";
            }

            echo "</table>";
        }
    }

    else{
        ?><h2 style="text-align:center; font-size:50px;">
        <?php
        echo "You need to login first!";
        ?></h2>

        <?php
    }

    ?>

    <br>
    <br>
    <br><br><br>

  </div>
</body>
</html>`
```

admin_issue.php

```php
<?php
    if(isset($_SESSION['login_user']))
    {
```

```php
        $c = 0;
        $q = mysqli_query($db,"SELECT student.username,usn,firstname,
book.bid,name,authors,edition, issue_book.issue,return_date FROM student INNER JOIN
issue_book ON student.username=issue_book.username INNER JOIN book ON
book.bid=issue_book.bid WHERE issue_book.approve='Yes' ORDER BY issue_book.return_date
ASC;");
        if(mysqli_num_rows($q)==0)
        {
            ?><h2 style="text-align:center; font-size:50px;color:white;">
            <?php
            echo "Issue information is Empty!";
            ?></h2>

            <?php
        }
        else{
            echo "<table class='table table-bordered table-hover' style='margin-left:75px;'>";
            echo "<tr
style='height:55px;font-size:30px;text-align:centre;border-color:black;background-color:#0049B7
'>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Username"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"USN"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Name"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Book_ID"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Book_Name"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Authors"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Edition"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Issue_Date"; echo "</th>";
            echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Return_Date"; echo "</th>";
            echo "</tr>";

            while($row=mysqli_fetch_assoc($q))
            {
                $d=date("Y-m-d");
                if($d > $row['return_date'])
                {
                    $c = $c + 1;
```

```php
                $var = '<p style="color:yellow;background-color:red;">Expired</p>';
                mysqli_query($db,"UPDATE issue_book SET approve = '$var' WHERE
return_date = '$row[return_date]' AND approve='Yes' LIMIT $c;");
            }

            echo "<tr style='background-color:#0C1A1A; ; height:50px;'>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['username']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['usn']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['firstname']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['bid']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['name']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['authors']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['edition']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['issue']; echo "</td>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['return_date']; echo "</td>";
            echo "</tr>";

        }

        echo "</table>";
    }


    }

    else{
        ?><h2 style="text-align:center; font-size:50px;color:white;">
        <?php
        echo "You need to login first!";
        ?></h2>

        <?php
    }

?>
```

```
    </div>

    </div>
</body>
</html>
```

books.php

```html
<!--_____search bar_____-->
    <br>
        <div class="srch" style="float:right;padding-right:30px;">
            <form class="navbar-form" method="post" name="form1">


                                <input class="form-control" type="text" name="search"
placeholder="search books.." required="">
                                <button style="background-color: #6db6b9e6; height:25px;
width:100px;" type="submit" name="submit" >
        Search
                                </button>
            </form><br>
    <!--_____request bar_____-->

    <form class="navbar-form" method="post" name="form2">


                                <input class="form-control" type="text" name="bid"
placeholder="Enter the book Id..." required="">
                                <button style="background-color: #6db6b9e6; height:25px;
width:100px;" type="submit1" name="submit1" >
        Request
                                </button><br><br>
            </form>
        </div>

        <?php
        if(isset($_POST['submit']))
        {
        $q=mysqli_query($db,"SELECT * from book where name like '%$_POST[search]%' ");

        if(mysqli_num_rows($q)==0)
        {
        ?>
            <script type = "text/javascript">
                alert('Sorry! No book found. Try searching again');
                // window.location="books.php"

            </script>
```

```php
          <script type = "text/javascript">
            // alert('Sorry! No book found. Try searching again');
             window.location="books.php"

          </script>
      <?php
      }
      else
      {
      echo "<table class='table table-bordered table-hover' style='margin-left:75px;'>";
      echo "<tr
style='height:55px;font-size:30px;text-align:centre;border-color:black;background-color:#0049B7;
'>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Book_ID";  echo "</th>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Book_Name";  echo "</th>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Authors";  echo "</th>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Edition";  echo "</th>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Status";  echo "</th>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Quantity";  echo "</th>";
         echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>";  echo
"Department";  echo "</th>";
         echo "</tr>";

         while($row=mysqli_fetch_assoc($q))
         {
           echo "<tr style='background-color:#0C1A1A; height:50px;'>";
           echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['bid']; echo "</tud>";
           echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['name']; echo "</tud>";
           echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['authors']; echo "</tud>";
           echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['edition']; echo "</tud>";
           echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['status']; echo "</tud>";
           echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['quantity']; echo "</tud>";
```

```php
        echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['department']; echo "</tud>";
            echo "</tr>";
        }

        echo "</table>";
    }
    }
    else
    {
        $res=mysqli_query($db,"SELECT * FROM book ORDER BY book.bid ASC;");

        echo "<table class='table table-bordered table-hover' style='margin-left:75px;'>";
        echo "<tr
style='height:55px;font-size:30px;text-align:centre;border-color:black;background-color:#0049B7;
'>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Book_ID"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Book_Name"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Authors"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Edition"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Status"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Quantity"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFAFD;'>"; echo
"Department"; echo "</th>";
        echo "</tr>";

        while($row=mysqli_fetch_assoc($res))
        {
            echo "<tr style='background-color:#0C1A1A; height:50px;'>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['bid']; echo "</tud>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['name']; echo "</tud>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['authors']; echo "</tud>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['edition']; echo "</tud>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['status']; echo "</tud>";
```

```php
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['quantity']; echo "</tud>";
            echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['department']; echo "</tud>";
            echo "</tr>";
        }
        echo "</table>";
    }



        if(isset($_POST['submit1']))
        {
          if(isset($_SESSION['login_user']))
          {
            $d = "SELECT * FROM book WHERE bid = '$_POST[bid]';";
            $res=mysqli_query($db,$d);
            if($row=mysqli_num_rows($res))
            {
              mysqli_query($db,"INSERT INTO issue_book
VALUES('$_SESSION[login_user]','$_POST[bid]','','','');");
            ?>
            <script type="text/javascript">

              alert('Book Requested!');
              window.location = "books.php"

          </script>
          <?php
          }

          else
          {
          ?>
          <script type="text/javascript">
          alert("Book not found!")
          window.location="books.php"
          </script>
          <?php
          }
        }

        else{
          ?>
          <script type="text/javascript">
```

```
                    alert('You need to login first!');
                    window.location = "books.php"

            </script>


            <?php
        }
    }

    ?>
  </div>
</body>
</html>
```

Student_fine.php

```php
<?php
    include "connection.php";
    session_start();

?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Books</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body style="background-color: #0A1828;">

    <div class="wrapper" style="height: 860px;" >
        <header>
            <div class="logo">
                <img src="images/Ramaiah_Institutions_Logo.png">
                <h1 style="color: white;">LIBRARY MANAGEMENT SYSTEM</h1>
            </div>
            <?php
            if(isset($_SESSION['login_user']))
            {?>

            <nav>
                <ul>
                    <li style="color:white"><?php echo($_SESSION['login_user']); ?> |</li>
```

```php
            <li><a href="index.php">HOME</a></li>
            <li><a href="books.php">BOOKS</a></li>
            <li><a href="logout.php">LOGOUT</a></li>
            <li><a href="feedback.php">FEEDBACK</a></li>
          </ul>
        </nav>
        <?php
        }

        else{?>
          <nav>
          <ul>
            <li><a href="index.php">HOME</a></li>
            <li><a href="books.php">BOOKS</a></li>
            <li><a href="student_login.php">STUDENT_LOGIN</a></li>
            <li><a href="admin_login.php">ADMIN_LOGIN</a></li>
            <li><a href="feedback.php">FEEDBACK</a></li>
          </ul>
          </nav>
        <?php
        }
      ?>



    </header>
    <section style="height:708px;">
    <div id ="mySidenav"class="sidenav">
        <a href="javascript:void(0)" class="closebtn" onclick="closeNav()">&times;</a>
        <div class="books_list"><h1 style="text-align: center; font-size:60px;
color:darkred;font-family:cursive;">List of books </h1></div>
        <div style="color: white; margin-left: 60px; font-size: 20px;">

        <?php
          if(isset($_SESSION['login_user']))
          {
            echo "Welcome ".$_SESSION['login_user'];
          }
        ?>
      </div>
      <br><br>


  <a href="books.php"> Books </a>
  <a href="issue.php">Issue Information</a>
  <a href="student_fine.php">Fine Information</a>
</div>
```

```html
<div id="main">

  <span style="font-size:30px;cursor:pointer;color:antiquewhite;"
onclick="openNav()">&#9776;</span>



<script>
function openNav() {
  document.getElementById("mySidenav").style.width = "300px";
  document.getElementById("main").style.marginLeft = "300px";
  document.body.style.backgroundColor = "rgb(0,0,0,0.4)";
}

function closeNav() {
  document.getElementById("mySidenav").style.width = "0";
  document.getElementById("main").style.marginLeft= "0";
  document.body.style.backgroundColor = "#0A1828";
}
</script>
</div>

    <?php
      if(isset($_SESSION['login_user']))
      {

        $ret = '<p style="color:yellow;background-color:green;">Returned</p>';

        $res = mysqli_query($db,"SELECT * FROM issue_book WHERE
username='$_SESSION[login_user]' AND approve = '$ret';");

        $day = 0;
        $books = 0;

        while($row=mysqli_fetch_assoc($res))
        {
          $d = strtotime($row['return_date']);
          $c = strtotime(date("Y-m-d"));
          $diff = $c+1-$d;

          if($diff>0)
          {

             $books = $books + 1;
             $day = $day + floor($diff/(60*60*24));   //days
```
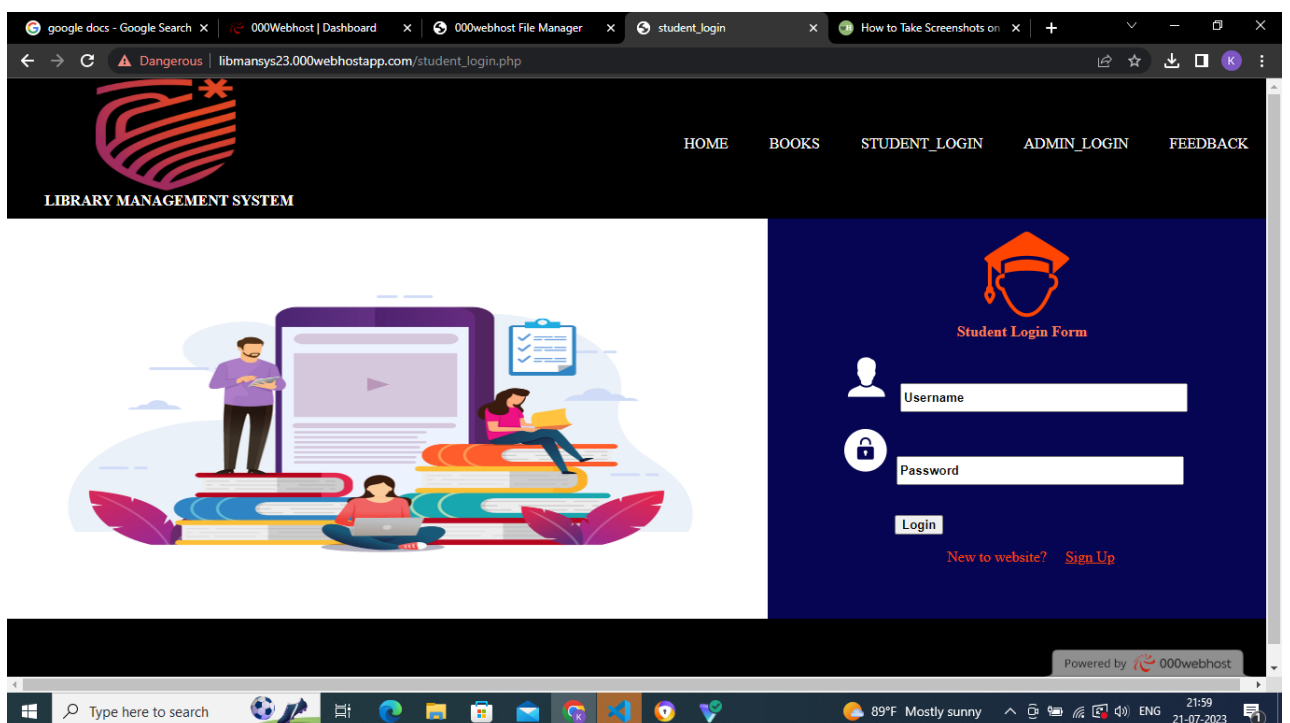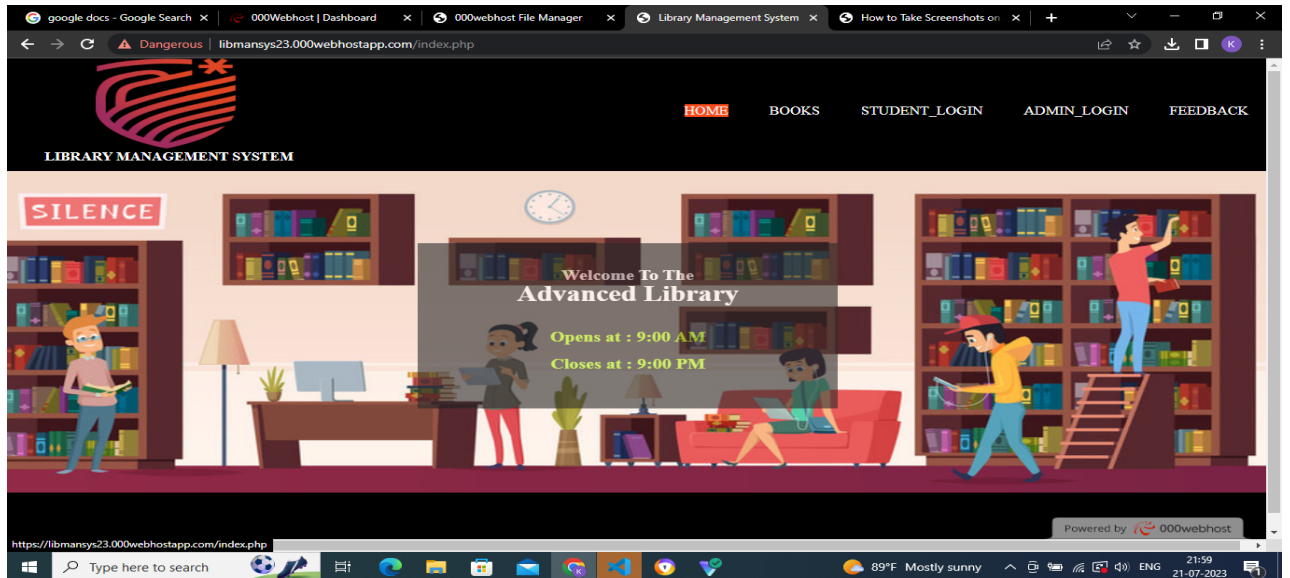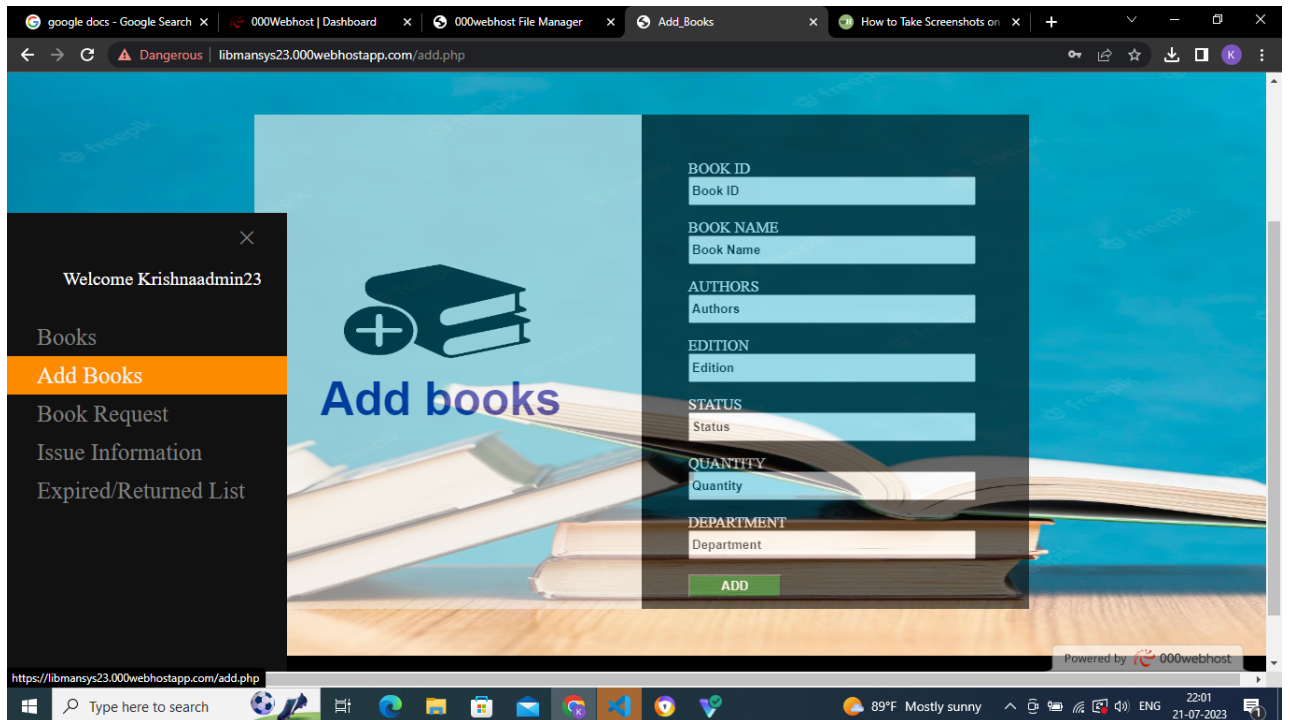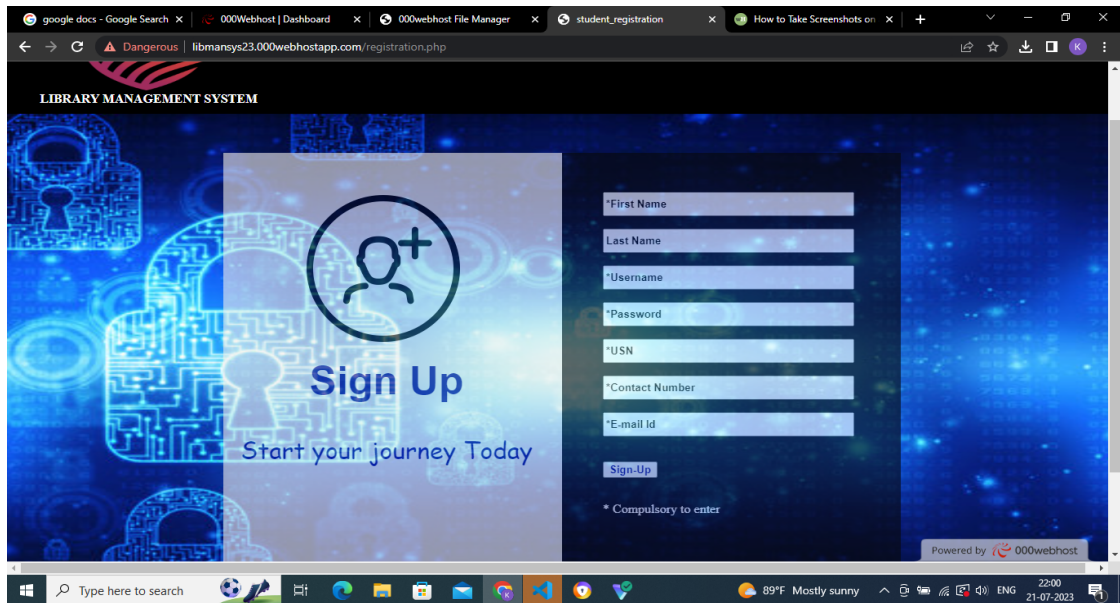
```php
            }
        }
        $fine = $day*1;
        $_SESSION['fine'] = $fine;



    $var = 0;
    $result = mysqli_query($db,"SELECT * FROM fines WHERE
username='$_SESSION[login_user]' AND status = 'not paid';");
        while($row = mysqli_fetch_assoc($result))
        {
            $var = $var + $row['fine'];
        }
        $actual_fine = $var + $fine;
    ?>
    <nav class="signup_left"><br><br><br><br><br><br><br><br><br><br>
                  <img src="images/fine.jpg"
height="100px" width="200px"><br><br>
            <div class="signup_left_writing">
                <h1 style="text-align: center;font-family:sans-serif;font-weight: bolder;font-size:
50px;">Delay Fine Information</h1><br>
            </div>
        </nav>
        <nav class="signup_form">
            <div class="addbook_writing" style="opacity:1;">
                <br><br><br><br><br><br><br>
                <h2 style="font-size: 25px;">Number of books overdued : <?php echo "$books";
?></h2><br><br><br><br>
                <h2 style="font-size: 25px;">Number of days delayed : <?php echo "$day";
?></h2><br><br><br><br>
                <h2 style="font-size: 30px;">Total fine : ₹<?php echo "$_SESSION[fine]"; ?></h2>

            </div>
        </nav>
        <?php
    }

    else{
        ?><h2 style="text-align:center; font-size:50px;color:white;">
        <?php
        echo "You need to login first!";
        ?></h2>

        <?php
    }
```

```
            ?>
        </section>
        <footer>

        </footer>
        </div>
    </body>
</html>
```

…………………………………….so on……………………………………….

Result :

LIBRARY MANAGEMENT SYSTEM

book_Id..

Username...

USN...

Return book

Returned List   Expired list

Username	USN	Name	Book_ID	Book_Name	Authors	Edition	Issue_Date	Return_Date	Status
2125IS065	1MS21IS065	Nagaraja	IS101	Operating Systems : Complete Reference	Dr.Suresh Kumar	3	2023-07-05	2023-07-12	Returned
2125IS049	1MS21IS049	Komal	MA001	Linear Algebra and its Applications	Gilbert Strang	5	2023-06-26	2023-07-10	Returned
2125IS065	1MS21IS065	Nagaraja	IS201	Java: The Complete Reference	Herbert Schildt	9	2023-06-13	2023-06-27	Returned
2125IS049	1MS21IS049	Komal	GE565	Abachoorina Postoffice	Dr.K.P.Poornachandra Tejaswi	1	2023-06-01	2023-06-15	Returned

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LIBRARY MANAGEMENT SYSTEM

2125IS049 | HOME   BOOKS   LOGOUT   FEEDBACK

Welcome 2125IS049

Books

Issue Information

Fine Information

Book_ID	Approve_Status	Issue_Date	Return_Date
IS101	Yes	2023-07-18	2023-08-01
GE565	Returned	2023-06-01	2023-06-15
MA001	Returned	2023-06-26	2023-07-10
CS145	Yes	2023-07-18	2023-08-01

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Conclusion and Future Scope

In the future, many more features and facilities can be added to the application. As we know with the increase in number of students, books, complexity other workloads, there can be a need of shifting the library data from the local database to the cloud. So, this software application can be transferred to a cloud database by doing necessary changes to it. With the help of cloud technology, you will get data backup facility, remotely updating and syncing of files, more security of data, lifetime storage etc. Online lectures, previous year examination papers, videos and an assignment submission section are all possible additions. Teachers can shoot the videos of their lectures and upload them on it. A group chat function might be included to the app so that students can share their concerns and doubts which will ultimately makes it more interactive and useful for an academic institution.

References

- www.apachefriends.org
- www.w3schools.com
- www.php.net
- www.tutorialspoint.com
- https://hookagency.com
- https://erdplus.com
- https://000webhostapp.com