

LIBRARY MANAGEMENT SYSTEM USING CONCEPTS OF DATABASE

A report submitted in partial fulfillment of the requirements

Of

Mini-Project (IS45)

In

Fourth Semester

By

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DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

RAMAIAH INSTITUTE OF TECHNOLOGY

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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.

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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.

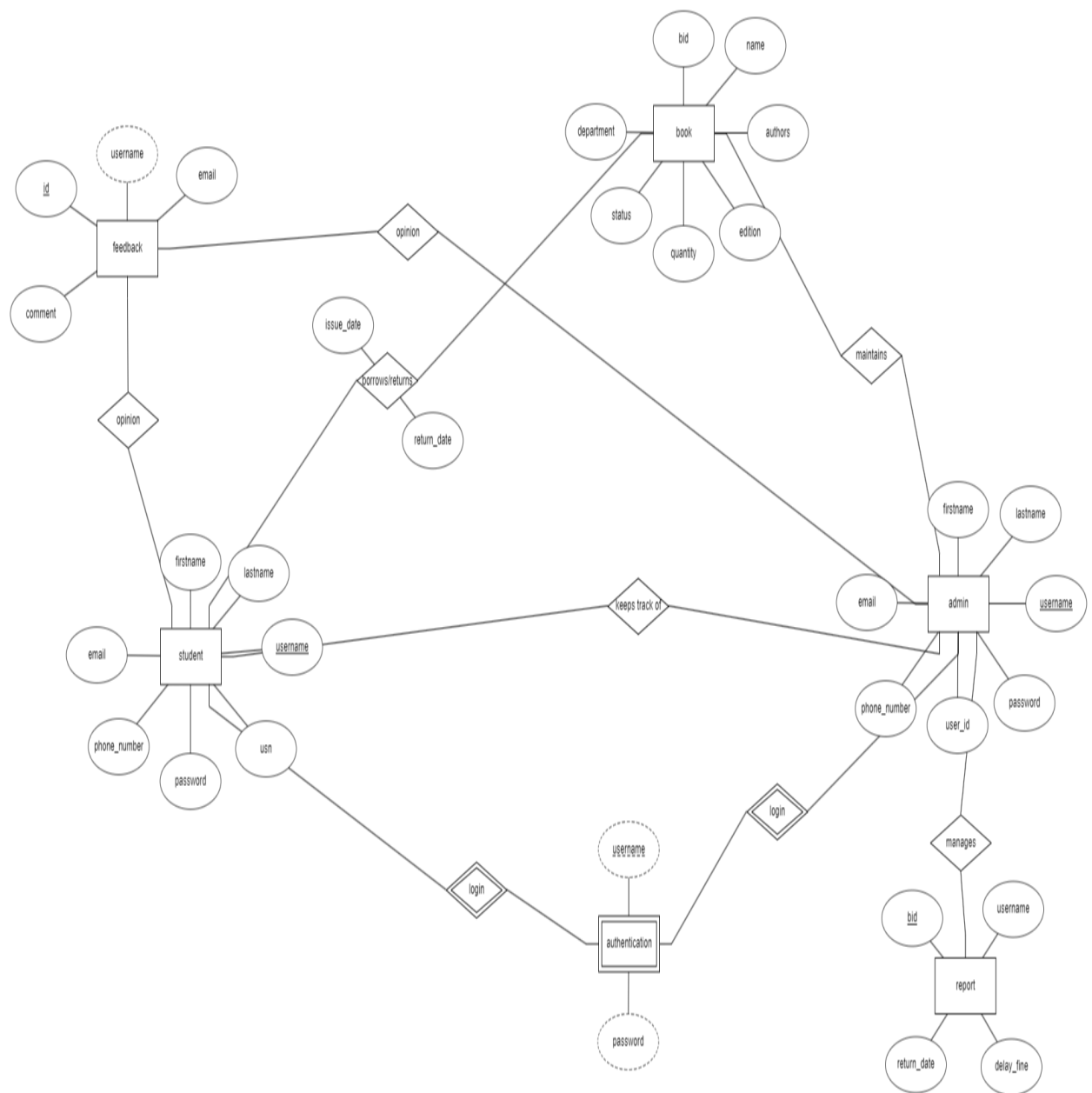
1.2 Introduction to project

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.

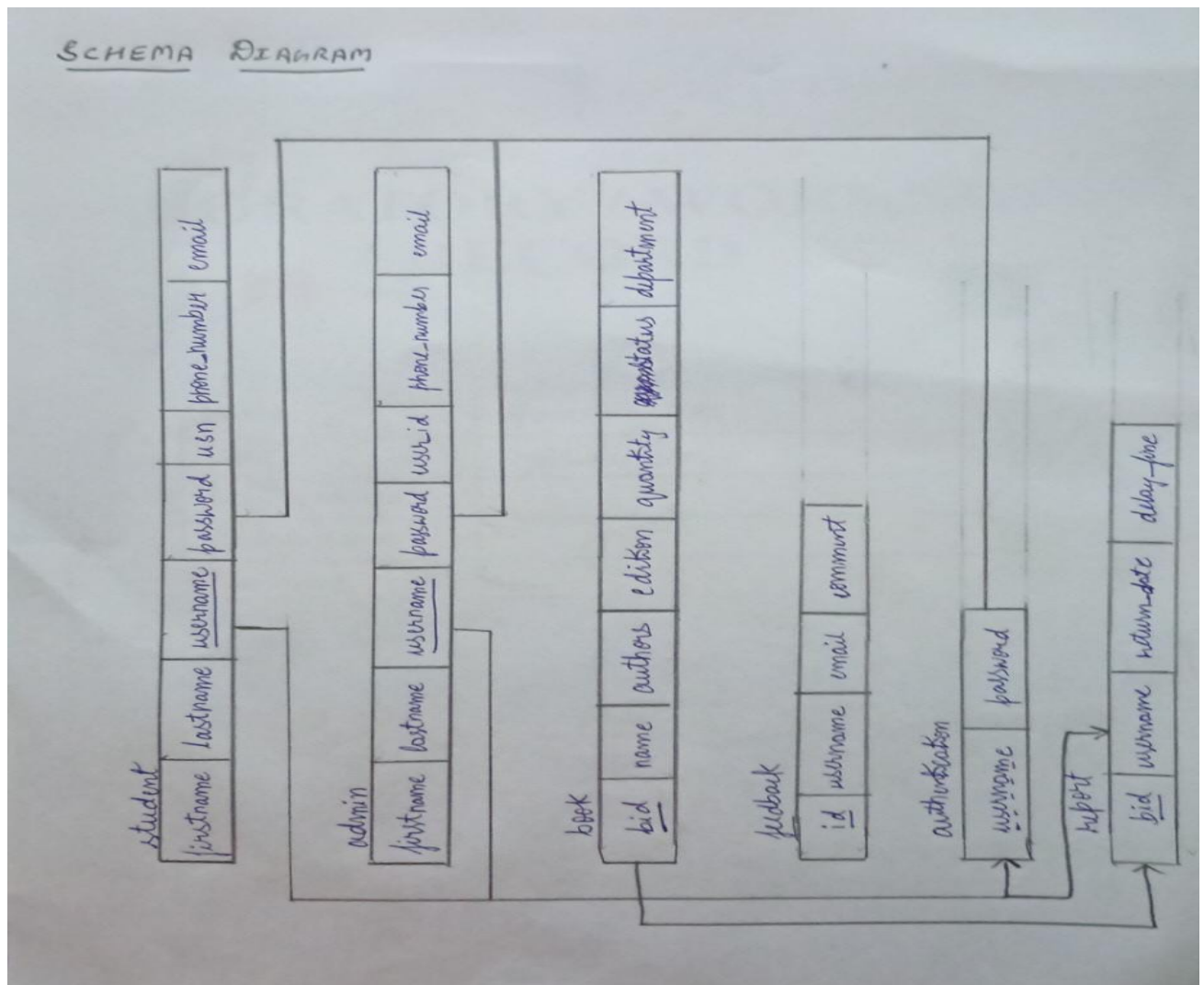
Using this application software, the librarian can search any book by using the issued book id of that particular book in just a second. He can also add new students, new books to the library database, can issue books, return books by making the necessary changes to the database part from the application 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

$db =
mysqli_connect("localhost","id21048182_root","Twinkle*1","id21048182_librarymanagementsystem"); //server_name,username,password,database

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

?>
```

admin_index.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">
        
        <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>

```

admin_expire.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">
                
                <h1 style="color: white;">LIBRARY MANAGEMENT SYSTEM</h1>
            </div>
        </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
}

</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>

  <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>

```

```

<?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')
                {
                    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
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>";

    echo "</table>";

}

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

    <?php

```

```

    }

?>

</div>

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

```

books.php

```

<!-- _____ 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>

<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:center;border-color:black;background-color:#0049B7;
'>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; echo
"Book_ID"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; echo
"Book_Name"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; echo
"Authors"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; echo
"Edition"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; echo
"Status"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; echo
"Quantity"; echo "</th>";
        echo "<th style='border: 3px solid #000;padding: 0.5rem;color:#EFFFAD;'>"; 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 "</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['status']; echo "</td>";
        echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['quantity']; echo "</td>";
        echo "<td style='border: 3px solid #000;padding: 0.5rem;color:#6ACFC7;'>"; echo
$row['department']; echo "</td>";
        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"

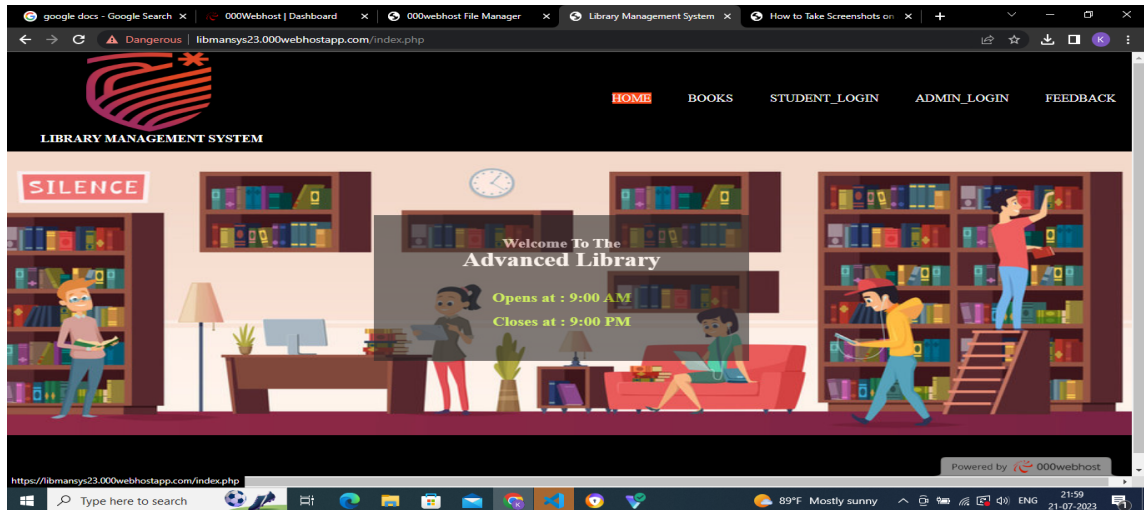
    </script>

    <?php
    }
}

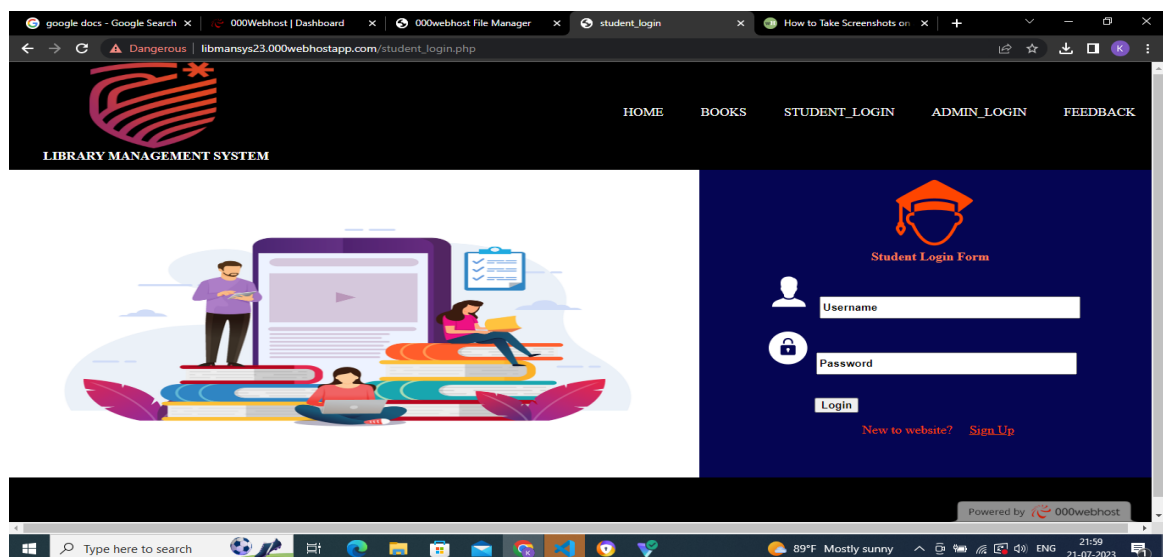
?>
</div>
</body>
</html>

.....so on.....
```

Results :



Home page of the website



Student login page

LIBRARY MANAGEMENT SYSTEM

Sign Up
Start your journey Today

*First Name
Last Name
*Username
*Password
*USN
*Contact Number
*E-mail id
Sign-Up
* Compulsory to enter

Powered by 000webhost

Registration/Sign up page

Welcome Krishnaadmin23

- Books
- Add Books**
- Book Request
- Issue Information
- Expired/Returned List

Add books

BOOK ID
Book ID

BOOK NAME
Book Name

AUTHORS
Authors

EDITION
Edition

STATUS
Status

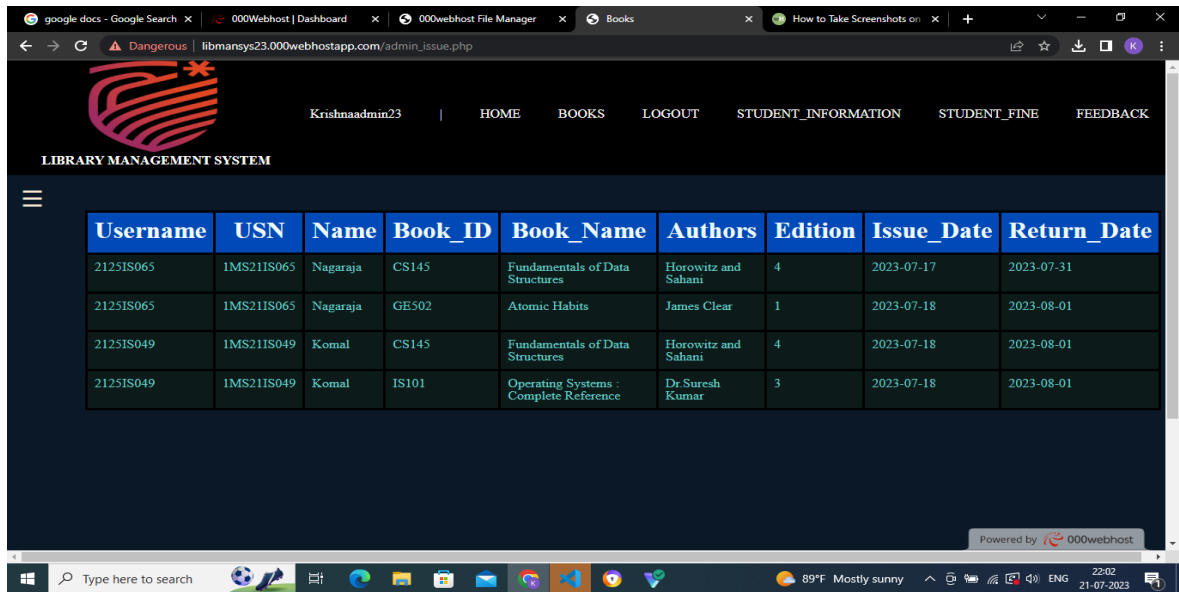
QUANTITY
Quantity

DEPARTMENT
Department

ADD

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Add Books Page



The screenshot shows the admin interface of a Library Management System. The user is logged in as 'Krishnaadmin23'. The main content area displays a table with the following data:

Username	USN	Name	Book_ID	Book_Name	Authors	Edition	Issue_Date	Return_Date
2125IS065	IMS211S065	Nagaraja	CS145	Fundamentals of Data Structures	Horowitz and Sahani	4	2023-07-17	2023-07-31
2125IS065	IMS211S065	Nagaraja	GE502	Atomic Habits	James Clear	1	2023-07-18	2023-08-01
2125IS049	IMS211S049	Komal	CS145	Fundamentals of Data Structures	Horowitz and Sahani	4	2023-07-18	2023-08-01
2125IS049	IMS211S049	Komal	IS101	Operating Systems : Complete Reference	Dr.Suresh Kumar	3	2023-07-18	2023-08-01

Page displaying list of books



The screenshot shows the student interface of the Library Management System. The user is logged in as '2125IS049'. The left sidebar shows a menu with 'Books', 'Issue Information' (highlighted), and 'Fine Information'. The main content area displays a table with the following data:

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

Books issued page for student view

LIBRARY MANAGEMENT SYSTEM

Krishnaadmin23 | HOME BOOKS LOGOUT **STUDENT_INFORMATION** STUDENT_FINE FEEDBACK

Enter student username...

Enter the starting digits of usn...

First_Name	Last_Name	Username	USN	Phone_Number	Email-Id
Komal	Raj S	2125IS049	1MS21IS049	9908678379	komalrajs2002@gmail.com
Nagaraja	P	2125IS065	1MS21IS065	8907645897	nagrajp@gmail.com
M V Nihal	Narayan Rao	2125IS068	1MS21IS068	7869086542	nihal@gmail.com

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Student information page in admin view

LIBRARY MANAGEMENT SYSTEM

Krishnaadmin23 | HOME BOOKS LOGOUT STUDENT_INFORMATION **STUDENT_FINE** FEEDBACK

Enter student username...

Enter the starting digits of usn...

Username	USN	Book_Id	Returned	Days_delayed	Fine(₹)	Status
2125IS065	1MS21IS065	IS101	2023-07-19	22	22	not paid
2125IS049	1MS21IS049	IS201	2023-07-18	8	8	not paid
2125IS049	1MS21IS049	IS201	2023-07-18	8	8	not paid
2125IS065	1MS21IS065	IS201	2023-07-18	21	21	not paid
2125IS049	1MS21IS049	GE565	2023-07-17	32	32	Paid
2125IS049	1MS21IS049	MA001	2023-07-17	7	7	Paid

Enter student username...

Enter Book Id...

Enter the starting digits of usn...

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Student fine information page in admin view

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>