



FIST

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### **TWT2231 - WEB TECHNIQUES AND APPLICATIONS**

Assignment Title: Library Management System

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## **1. Introduction**

First, the index.html, this is the introduction page of our Library Management System. In this index.html which is the introduction page, we have created a slideshow to display our classic collection such as “Python Programming”, “Computer Programming For Beginners”, “C++” and so on. In this case, the users can click on the demo picture below the slideshow, or the arrow button located at the left or right of the slideshow to change to the next collection or the previous collection. After the slideshow, we have two boxes which are “Member Login” and the “Librarian Login”. In the “Member Login” box, we have two buttons which are “Member Login” and “Member Sign Up”. Next, in the “Librarian Login” box we have one button which is “Librarian Login”.

Once the user clicks on the “Member Login” button in the “Member Login” box, it will redirect the user to member\_login.php. In the member\_login.php, there is a form that asks the user to key in their ID or email as well as their password. In this case, the user needs to key in the correct ID or email and the password which they had registered in our system before. After the user key in the correct ID or email and password, the user needs to click on the “LOGIN” button. If the ID or email and password that is keyed in by the user match the record in our database which means the ID or email and password are correct, it will redirect the user to our Library Management System’s homepage. Next, if the user did not have any account in our Library Management System yet, there is a button which is “SIGN UP” that is located at the bottom of the “LOGIN” button. Once the user clicks on the “SIGN UP” button, it will redirect the user to member\_signup.php.

In the member\_signup.php, the user is required to key in their name, email, phone and password to register a new member account. After that, the user can click on the “SIGN UP” button to submit the form in order to register as a new member in our Library Management System or click on the “CLEAR” button to reset the form. After the user clicks on the “SIGN UP” button, the m\_sign\_up\_process.php will check for the email that is keyed in by the user whether it has existed in our database before or not. If the email has existed in the database, the system will pop up an alert box for the user and say “Email Already Exists, please use another email address or LOGIN your account.”. In this case, the user needs to key in another email address in order to register the new member account or use that email to login into their account. Else the system will show a message which is “Sign Up Successful” for the user and the user now is able to log in into their account. Next, at the bottom of member\_signup.php,

there is a “LOGIN” button as well for the user to directly access the member\_login.php in order to login into their account.

Besides that, when the user clicks on the “Librarian Login” button in the index.html which is in the “Librarian Login” box it will redirect the user to librarian\_login.php. In the librarian\_login.php, the librarians are required to key in their correct ID or email and password in order to access the system. After the librarian has keyed in their ID or email and the password, they can click on the “LOGIN” button. If the ID or email and password are incorrect, the system will pop up an alert box and say “Invalid Member ID/Email/Password” to the user. Else, the system will redirect them to the librarian’s homepage.

When the user logged in as a member from member\_login.php with correct ID or email and password, the system will navigate to the member home page. There is a sidebar with several hyperlinks that will navigate the user to make various operations. The first hyperlink is navigating them to the home page, which is home.php, where the user will firstly see right after they logged in. The content in the home.php is the five latest books that were added into the database. The main purpose is to promote the new arrivals books in the library. The books are represented in the form of a table containing the book ID, book name, author and quantity. Among the information, the book IDs are contemporary hyperlinks which can link to the details of the books and the authors can link to a list of the particular author’s books.

The second hyperlink “Profile” in the sidebar is navigated to the profile of the logged in user. In this page, the user is able to view their personal information. The information that is shown in this page is the member ID, name, email address, and the phone number. To edit the information, there is a button “edit” for users to click on. Once the button is clicked, the other two buttons which are “save” and “cancel” will be shown and the button “edit” will be hidden. The input field that holds the information is originally cannot be modified, only after the user clicks on the edit button, the field for the information except for the member ID will be editable. That means the members are allowed to make changes to all of the information except for the member ID, as it is the primary key in the database. After the user is satisfied with the personal information that entered into the fields, the user can click on the “save” button and the information will further be passed to the processProfile.php to process and

update in the database. If the user changes his mind when editing the profile, he can always click on the “cancel” button, and the information will fill into the profile again.

The third hyperlink “Books” will navigate to the booklist.php. This page will show a table of available books for users to issue. There is a search bar on top of the table which allows users to search the books by book name, book id, author and quantity, which can be selected in a select box. After the users enter words or phrases in the search field, and press enter or click the search button, the result matched will be shown in the same table. Similar to the home page, the book id and author are both a hyperlink. When the user clicks to the hyperlink, the system will be navigated to book.php and the details of the particular book will be shown. If the quantity is one or more, a button will be shown to allow the users to issue the book. If the book has a quantity of zero, the button will be hidden and a string of words will inform the users that the book is not available. When users issue the book, the quantity of the book will automatically decrease by one, and this is done by the trigger in the database.

The forth hyperlink “Records” will direct the user to the recordlist.php which is showing a list of issue records made by the particular member. The information about issue records including the record ID, book ID, book name, issue date, return date and a boolean value of “returned” is shown. From here, the member can click on the hyperlink at the record ID, and check for the details of the records in record.php, and here is where the member can also return the book that has not been returned yet. The return date in issue records is set as five days after issue date. Once the user returns the book, the return date will be updated to the current date. There are also the hyperlinks that will link to book.php, and the search function that are the same as what we mentioned in the third hyperlink “Books”. The search function allows the user to search the issue record by book name, record ID, book ID, issue date and return date.

The fifth of those hyperlinks is relatively simple. Which is “Password”. Here is where users can change their password. Users need to enter the correct password twice and the new password to change, and the new password will be passed to processChangepassword.php to perform updates in the database. If the users entered the wrong password or two different passwords, the change will be discarded.

When the user logged in as a librarian from `librarian_login.php` with correct ID or email and password, the system will navigate to the librarian's home page. There is also a sidebar as in the member's home page. There are similar functions and some unique features that are only in the librarian's home page.

The hyperlink “Books” will navigate to the `booklist.php`. This page shows the details of the listed book and it is able to edit each book’s details such as Book ID, Book Name, Author, and Quantity. The action of editing a book by clicking “Book ID” to enter the page of Book’s Detail. Once the modification has been done, click on the “Edit” button to save the updated details. Once the details are updated successfully, the notification “Book Edited Successfully” will be displayed. Details of Books now are updated and latest details are shown by clicking “Book ID” again.

The hyperlink of “Add Book” will navigate to the `addbook.php`. This page is displayed by clicking the “Add Book” tab and there is a table for entering the details of books. The table included Enter Book Name, Enter Author Name, and Enter Quantity. The quantity of books should not be entered none or zero, it requires at least 1 book displayed. While the librarian did the input all details of books, click the button “add” to add certain books to the “Books” tab. The ID of the book is autogenerated with prefix B, so it only requires insert book name, author name and quantity. If the process of adding a book is successful, the notification “Book Added Successfully” will be displayed. Librarians are also able to delete entered details by clicking the button “Clear”, this is resetting the table to enter new details.

After hyperlink “Add Book”, the next hyperlink is “Records” which will navigate page to the “`recordlist.php`”. This page displays Record ID, Book ID, Book Name, Member ID, Issue Date, Return Date, status of Returned and search through book name, record id, book id and other. If there is no corresponding record in the record list, the notification “Sorry, no record found” will be displayed while the search action is done. Librarians are able to help members to return the certain book by clicking the record ID. After clicking the record ID, it will show details and below the table has a button “Member returned this book” and the librarian successfully helped the member to return the book. Besides, Book ID will show the details of the book and Member ID will display the details of the member.

Furthermore, the hyperlink of “Member List” will navigate to the memberlist.php. There is a table to show all members of the library system and the table includes Member ID, Member Name, Email and Phone. By clicking the Member ID, the details are also shown line by line. Librarians are also able to use search to find someone by name, id, email, and phone, the result will be displayed if there is a corresponding details. The notification “Sorry, no member found” will be displayed if there are no details in the database.

The next hyperlink is “Edit member’s information” which is navigated to the processEditmember.php. This page will be shown by clicking on the member ID on the member page. This page shows the member’s details like member ID, member name, email and phone number. The action of editing the member’s information can be taken by clicking the “edit” button. After the editing has been done, click the “save” button to save the changes. Once the changes are updated successfully, the notification “Member Edited Successfully!” will pop out. Besides, clicking the “delete” button can delete the member account.

The hyperlink “Librarian” will navigate to the librarianlist.php. This page shows the lists of the librarian with librarian ID, librarian name, email and phone. We are able to see each librarian’s details by clicking the librarian ID. Besides, users can search the librarian with their ID, name, email or phone number after entering the information and click the “Search” button. The system will show the information of the librarian once the system finds the librarian. However, the notification “Sorry, no librarian found.” will be displayed if there is no information of the librarian.

The last hyperlink is navigated to processAddlibrarian.php, which is “Add Librarian”. This page will be shown by clicking the “Add Librarian” tab on the side bar. There is a table for entering the information of the librarian. Users can enter information about the librarian’s name, email and phone number into each row of the table. The librarian’s ID is autogenerated by the system with prefix L which stands for Librarian. After entering the information, click the “Add” button to add the librarian to the system. The notification “Librarian Added Successfully!The default password is set to the phone number.” will be shown if the input of the librarian’s details was added successfully. There is a “Clear” button beside the “Add” button. Users can clear the details that they have entered by clicking the button. This will help to reset the table to enter the new details.

## **2. Objectives**

The objective of this Library Management System is to create a web application with a user-friendly interface for our library members and our librarians. For example, before a user login into their account or register as a new member of our system, there is a slideshow for the user to know which kind of book they can find in our system. In this case, this can prevent wasting the user's time to browse and search the books in our system and finally realise it is not available in our system.

Next, the Library Management System is designed to provide a simple and useful platform for the user. By using this system, the user is able to browse and search what kind of books are available in our system which allow them to find the books they want quickly. Besides that, the user also can edit their personal info in the system such as their name, email address, phone number and they can even change their login password to make sure their personal information is accurate and to keep their account secure by changing their password frequently. Furthermore, after the user has borrowed or returned the books, they can always check their issue records in the system to prevent any overdue return date. Once the user completes their task, they can logout from the system to avoid someone stealing their session to retrieve their personal information.

With all of these features, we intend that the user can perform all these tasks just in one website and need not to be physically presented in the store. Besides that, due to our user-friendly interface, the user is expected to learn how to use our system in a very short time and is able to carry out their task easily. Since our system is an online platform, the user is able to avoid exposure to the risk of getting infected by the covid-19 which is getting more serious in our country Malaysia. Therefore, we think that this will bring a good effect to the society in which the residents of Malaysia can avoid going out and stay safe at home.

Furthermore, this Librarian Management System also aims to provide a simple and easy to learn platform for the librarian. It is because, by using this system the librarian can easily add a book to the system or delete the book from the system which allows the librarian to manage all the books easily. Besides that, the librarian also can modify the details of the book which is easier for the librarian to cover the typo error. Next, by using this system, the librarian also can check or trace the status of the books that are issued to the member under the Issue Records List to prevent losing the books. In addition, the librarian also can edit their

personal info in the system such as their name, email address, phone number and even they can change their login password to make sure their personal information is accurate and to keep their account secure by changing their password frequently.

As a result, we believe that this Library Management System will bring a lot of convenience to our librarian as well as our members.

### **3. Scope**

#### **3.1 Potential users and specific requirement**

The potential users of our Library Management System are anyone who has the interest to borrow the book from our system and they can register as our system's member. Besides that, the librarian also is one of the potential users of our system in which they are responsible for managing all of the books in the system.

Next, the specific requirement of our system is the users need to login into the system with their correct ID or email and password. In this case, the librarian and the member are required to provide their correct ID or email and password in order to login into the system. Next, if the user has not registered in our system yet, they are required to register an account in order to become a member and login into the system.

#### **3.2 Required hardware and software**

The required hardware of this Library Management System is the users are required to access the system by using a computer such as a laptop or a desktop with the internet connection whether the computer is connected to a Wi-Fi or a mobile data. It is because using devices which have a bigger screen like laptop or desktop will have a better view and experience of the system.

Besides that, the required software of this system is the internet browsers no matter what operating system the users are using. For example, Microsoft Edge, Mozilla Firefox and Google Chrome can be used by Windows OS users and Safari for Apple users.

#### **3.3 Delivery Platform**

This Library Management System is running on the network which the users are required to connect to the internet in order to use this system. Therefore, the users need a home Wi-Fi, public Wi-Fi or their own mobile data to gain access to the internet and use this system.

## 4. Contribution

### 4.1 Tasks

In this Library Management System project, our group had done a lot of the research and found some useful information from YouTube or from Google. After we did the research and collected enough information about our system, we started to build and develop our Library Management System. In this project, two of our team members , Theng Yuan Yuan, our leader, and Tan Zhi Yee, one of the group members, did the coding part of our whole system. They are using HTML, PHP, MySQL, JavaScript and CSS to implement the whole system.

Besides that, for the report of our system, all of the group members did the introduction. Theng Yuan Yuan and Tan Zhi Yee describe the way members use this system, while Loo Mei Yi and Wong Yaa Teng describe the librarian's way. Next, Tan Zhi Yee completed the objective and task in our system's report. Besides that, Wong Yaa Teng had completed the scope in our system's report. Last but not least, Theng Yuan Yuan completed the schedule as well as the conclusion in our system's report.

Last but not least, Tan Zhi Yee presented the intro, member login and member sign up page of our system. Next, Theng Yuan Yuan . Wong Yaa Teng presented librarian login, edit book, add book and show record of issued book of our system and Loo Mei Yi presented member and edit member, add librarian and librarian list.

### 4.2 Schedule

	Week 6 7/2 - 13/2	Week 7 14/2 - 20/2	Week 8 21/2 - 27/2	Week 9 28/2 - 6/3	Week 10 7/3 - 13/3	Week 11 14/3 - 20/3	Week 12 21/3 - 27/3	Week 13 28/3 - 3/4	Week 14 4/4 - 8/4
<i>Database implementation</i>									
<i>Initial interface design</i>									
<i>Program implementation</i>									
<i>Interface improvement</i>									
<i>Testing</i>									
<i>Documentation</i>									
<i>Demonstration Video</i>									

## **5. Conclusion**

The final website has the function to show all the data about the librarians, members, books, and issue records. There are clear navigations where the users can navigate to where they wish to access which are the tabs with hyperlinks in the sidebar. By using this website, the librarians can perform almost all the functions which they need to perform offline. Librarians' daily duty can be easily handled as there are functions that allow them to easily manage their data, not only books and issue records, but also the member list of the library. Therefore, this website is said to meet the objectives which is to have a user-friendly interface for our library members and our librarians. This is expected to enhance librarians' working efficiency. We expect it will help libraries in Malaysia to shift their working mode to online during this pandemic.

Besides, the Library Management System has also met the requirements where it is expected to provide a simple and useful platform for the user. It is said so as there are clear labels for every input field that inform the librarians and the library members to know what should be entered into the fields. There are also search functions for the users to search for the books, issue records, members, and librarians. As there are dates in the issue records, the search bar will have a placeholder of "YYYY-MM-DD" when the users choose to search the records by issue date or return date, to tell the user the format of the date that should be entered to search. Therefore, we declare that this system successfully provides a simple and useful platform as it can somehow avoid human error.

In a nutshell, we would estimate that the project outcome has met the aims and goals of the system, since the final outcome of the Library Management System has a user-friendly interface and is simple and useful with the features. Our expectation of the usage of this system is to raise the effectiveness and efficiency of librarians' work. I believe with this library management system, librarians can easily manage the work in the library, and the public would also slowly show interest in reading books since they can easily access it through this platform.

## 6. Appendices

### 6.1 Source code

#### *index.html*

```
<!DOCTYPE html>
<html>
    <head>
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Library Management System</title>
        <style type="text/css">

            * {
                margin: 0;
                padding: 0;
            }

            .background-image{
                background-image:
url("img/library_background.jpg");
                background-size: cover;
                min-height: 100%;
                background-attachment: fixed;
                background-repeat: no-repeat;
            }

            h1 {
                font-family:'Brush Script MT', cursive;
                color: white;
                text-align: center;
                font-size: 70px;
            }

            h3 {
                color: white;
                text-align: center;
                font-size: 50px;
                font-family:Papyrus, fantasy;
            }

            .memberbox, .librarianbox {
                display: inline-block;
                padding: 5px;
                background-color: #000;
                background: rgba(0, 0, 0, 0.6);
                width: 500px;
                height: 130px;
                padding: 10px;
                margin: 0 15px;
                position: relative;
                border-radius: 10px;
                font-family: Helvetica, sans-serif;
                font-size: 30px;
            }

        </style>
    </head>
    <body>
```

```

#button {
    font-size: 20px;
    color: white;
    background: crimson;
    border: 2px solid rgb(37, 34, 34);
    border-radius: 10px;
    padding-top: 10px;
    padding-bottom: 10px;
    padding-right: 10px;
    padding-left: 10px;
    cursor: pointer;
}

#button:hover {
    background-color: grey; /* Add a grey background
on hover */
}

img {
    vertical-align: middle;
}

/* Position the image container (needed to position the
left and right arrows) */
.container {
    position: relative;
}

/* Hide the images by default */
.mySlides {
    display: none;
}

/* Add a pointer when hovering over the thumbnail images
*/
.cursor {
    cursor: pointer;
}

/* Next & previous buttons */
.prev,
.next {
    cursor: pointer;
    position: absolute;
    top: 40%;
    width: auto;
    padding: 16px;
    margin-top: -50px;
    color: white;
    font-weight: bold;
    font-size: 20px;
    border-radius: 0 3px 3px 0;
    user-select: none;
    -webkit-user-select: none;
}

```

```

/* Position the "next button" to the right */
.next {
    right: 0;
    border-radius: 3px 0 0 3px;
}

.prev {
    left: 0;
    border-radius: 3px 0 0 3px;
}

/* On hover, add a black background color with a little
bit see-through */
.prev:hover,
.next:hover {
    background-color: rgba(0, 0, 0, 0.8);
}

/* Number text (1/7 etc) */
.numbertext {
    color: #f2f2f2;
    font-size: 12px;
    padding: 8px 12px;
    position: absolute;
    top: 0;
}

/* Container for image text */
.caption-container {
    text-align: center;
    background-color: #222;
    padding: 2px 16px;
    color: white;
    font-size: 25px;
    font-family: Garamond, serif;
}

.row:after {
    content: "";
    display: table;
    clear: both;
}

/* 7 columns side by side */
.column {
    float: left;
    width: 14.28%;
}

/* Add a transparency effect for thumbnail images */
.demo {
    opacity: 0.6;
}

.active,

```

```

.demo:hover {
    opacity: 1;
}

</style>

<script type="text/javascript">

var slideIndex = 1;
showSlides(slideIndex);

function plusSlides(n) {
    showSlides(slideIndex += n);
}

function currentSlide(n) {
    showSlides(slideIndex = n);
}

function showSlides(n) {
    var i;
    var slides =
document.getElementsByClassName("mySlides");
    var dots = document.getElementsByClassName("demo");
    var captionText = document.getElementById("caption");
    if (n > slides.length) {slideIndex = 1}
    if (n < 1) {slideIndex = slides.length}
    for (i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }
    for (i = 0; i < dots.length; i++) {
        dots[i].className = dots[i].className.replace("active", "");
    }
    slides[slideIndex-1].style.display = "block";
    dots[slideIndex-1].className += " active";
    captionText.innerHTML = dots[slideIndex-1].alt;
}

</script>

</head>

<body>
<div class="background-image">

<h1>Welcome to Library Management System</h1><br>

<h3>Our Classic Collection</h3>

<div class="container">

<div class="mySlides">
    <div class="numbertext">1 / 7</div>
    
</div>

```

```

<div class="mySlides">
    <div class="numbertext">2 / 7</div>
    
</div>

<div class="mySlides">
    <div class="numbertext">3 / 7</div>
    
</div>

<div class="mySlides">
    <div class="numbertext">4 / 7</div>
    
</div>

<div class="mySlides">
    <div class="numbertext">5 / 7</div>
    
</div>

<div class="mySlides">
    <div class="numbertext">6 / 7</div>
    
</div>

<div class="mySlides">
    <div class="numbertext">7 / 7</div>
    
</div>

<a class="prev" onclick="plusSlides(-1)">#10094;</a>
<a class="next" onclick="plusSlides(1)">#10095;</a>

<div class="caption-container">
    <p id="caption"></p>
</div>

<div class="row">
    <div class="column">
        
    </div>
    <div class="column">
        
    </div>
    <div class="column">
        
    </div>
    <div class="column">

```

```

        
    </div>
    <div class="column">
        
    </div>
    <div class="column">
        
    </div>
    <div class="column">
        
    </div>
</div>

<br><br>

<div class="box memberbox">
Member Login<br><br>
<a href="member_login.php">
<button id=button>Member Login</button>
</a>

<a href="member_signup.php">
<button id=button>Member Sign Up</button>
</a>
</div>

<div class="box librarianbox">
Librarian Login<br><br>
<a href="/library/librarian_login.php">
<button id=button>Librarian Login</button>
</a>
</div>

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

```

```

librarian_login.php
<?php
    session_start();
?>

<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css"/>
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Librarian Login for Library Management
system</title>
    </head>

    <body>
        <div class="background-image">

            <br><br>
            <div class="box librarianloginbox">
                Librarian Login<br><br>

                <form method=post action="librarian_login_process.php"
enctype="multipart/form-data">
                    <table>
                        <tr><td
                            class="field">&ampnbsp&ampnbspID/Email:&ampnbsp</td><td><input
                            id=textboxid type=text name=email_id required></td></tr>
                        <tr><td
                            class="field">&ampnbsp&ampnbspPassword:&ampnbsp</td><td><input
                            id=textboxid type=password name=pass required></td></tr>
                    </table>
                    <br><input id=button type=submit name=login value="LOGIN">
                </form>

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

```

```

librarian_login_process.php
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css"/>
    </head>

    <body>

        <div class="background-image">

            <?php
                session_start();

                if(isset($_POST['login']))
                {
                    // connect the MySQL server
                    if(!$connection = mysqli_connect("localhost",
"root", ""))
                        die( "Could not connect to database
</body></html>" );

                    // access the database
                    if ( !mysqli_select_db($connection, "library") )
                        die( "Could not open library database
</body></html>" );

                    extract($_POST);

                    $sql=mysqli_query($connection, "SELECT * FROM
librarian where (email='$email_id' or id='$email_id') and
password='$pass')");
                    $row=mysqli_fetch_array($sql);
                    if(is_array($row))
                    {
                        $_SESSION["id"] = $row['id'];
                        $_SESSION["name"]=$row['name'];
                        $_SESSION["email"]=$row['email'];
                        $_SESSION["phone"]=$row['phone'];
                        $_SESSION["pass"]=$row['pass'];
                        header("Location: librarian/");
                        exit;
                    }
                    else
                    {
                        echo '<script type="text/javascript">
                        alert("Invalid Librarian ID/Email/Password");
                        location.href = "/library/librarian";
                        </script>';
                    }
                }
            ?>
        </body>
    </html>

```

```

member_login.php
<?php
    session_start();
?>

<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css"/>
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Member Login for Library Management
system</title>
    </head>

    <body>
        <div class="background-image">

            <br><br>
            <div class="box memberloginbox">
                Member Login<br><br>

                <form method=post action=m_login_process.php
enctype="multipart/form-data">
                    <table>
                        <tr><td
                            class="field">&ampnbsp&ampnbspID/Email:&ampnbsp</td><td><input
                            id=textboxid type=text name=id_email required></td></tr>
                        <tr><td
                            class="field">&ampnbsp&ampnbspPassword:&ampnbsp</td><td><input
                            id=textboxid type=password name=pass required></td></tr>
                    </table>
                    <br><input id=button type=submit name=login value="LOGIN">
                </form>

                <br>
                <p class="tips">Don't have an account?</p>
                <a href="member_signup.php">
                    <button id=button>SIGN UP</button>
                </a>

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

```

```

m_login_process.php
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css"/>
    </head>

    <body>

        <div class="background-image">

            <?php
                session_start();

                if(isset($_POST['login']))
                {
                    // connect the MySQL server
                    if(!$connection = mysqli_connect("localhost",
"root", ""))
                        die( "Could not connect to database
</body></html>" );

                    // access the database
                    if ( !mysqli_select_db($connection, "library") )
                        die( "Could not open library database
</body></html>" );

                    extract($_POST);

                    $sql=mysqli_query($connection, "SELECT * FROM
member where (email='$id_email' or id='$id_email') and
password='$pass')");
                    $row=mysqli_fetch_array($sql);
                    if(is_array($row))
                    {
                        $_SESSION["id"] = $row['id'];
                        $_SESSION["name"]=$row['name'];
                        $_SESSION["email"]=$row['email'];
                        $_SESSION["phone"]=$row['phone'];
                        $_SESSION["pass"]=$row['pass'];
                        header("Location: member/");
                        exit;
                    }
                    else
                    {
                        echo '<script type="text/javascript">
                        alert("Invalid Member ID/Email/Password");
                        location.href = "/library/librarian";
                        </script>';
                    }
                }
            ?>
        </body>
    </html>

```

```

member_signup.php
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css"/>
        <meta name="viewport" content="width=device-width,
initial-scale=1">
        <title>Member Sign Up for Library Management
system</title>
    </head>

    <body>
        <div class="background-image">

            <br>
            <div class="box membersignupbox">
                Member Sign Up<br><br>

                <form method=post action=m_signup_process.php>
                    <table>
                        <tr><td class="field">&ampnbsp&ampnbspName:&ampnbsp</td><td><input
id=textboxid type=text name=name required></td></tr>
                        <tr><td
class="field">&ampnbsp&ampnbspEmail:&ampnbsp</td><td><input id=textboxid
type=text name=email required></td></tr>
                        <tr><td
class="field">&ampnbsp&ampnbspPhone:&ampnbsp</td><td><input id=textboxid
type=text name=phone required></td></tr>
                        <tr><td
class="field">&ampnbsp&ampnbspPassword:&ampnbsp</td><td><input
id=textboxid type=password name=pass required></td></tr>
                    </table>
                    <br><input id=button type=submit value="SIGN UP">
                    <input id=button type=reset value=CLEAR>
                </form>

            <br>
            <p class="tips">Already have an account?</p>
            <a href="member_login.php">
                <button id=button>LOGIN</button>
            </a>
        </div>

    </div>
</body>

</html>

```

```

m_signup_process.php
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="style.css"/>
    </head>

    <body>

        <div class="background-image">

            <?php
                // connect to the MySQL server
                if(!($connection = mysqli_connect("localhost", "root",
                "")))
                    die( "Could not connect to database
</body></html>" );
                // access the database
                if ( !mysqli_select_db($connection, "library") )
                    die( "Could not open library database
</body></html>" );

            extract($_POST);

            $sql=mysqli_query($connection, "SELECT * FROM member
where email='$email'");
            if(mysqli_num_rows($sql)>0)
            {
                echo '<script type="text/javascript">
                    alert("Email Already Exists, please use another
email address or LOGIN your account.");
                    location.href = "/library/member_signup.php";
                </script>';
            }
            else
            {
                $query="INSERT INTO member (name, email, phone,
password) VALUES ('$name', '$email', '$phone', '$pass')";

                // execute the query
                if ( !( $result = mysqli_query($connection,
$query) ) )
                {
                    echo "<p>Error</p>" ;
                    die(mysqli_error($connection) .
"</body></html>" );
                }
            }
        ?>
        <br><br><h3>Sign Up Successful!</h3><br><br>
        <a href="member_login.php">
            <button id=button>Login Here</button>
        </a>
        </div>
    </body>
</html>

```

**script.js**

```
function confirmlogout() {
    if (confirm("Are you sure to log out?") == true) {
        window.location = "logout.php";
    }
}

function setPlaceholder() {
    var option = document.getElementById("searchop").value;
    if (option === "issue_date" || option === "return_date") {
        document.getElementById("searchbar").placeholder =
"YYYY-MM-DD";
    } else {
        document.getElementById("searchbar").placeholder =
"Search..";
    }
}
```

**style.css**

```
* {  
    margin: 0;  
    padding: 0;  
}  
  
.background-image{  
    background-image: url("/library/img/library_background.jpg");  
    background-size: cover;  
    height: 100vh;  
    background-attachment: fixed;  
    background-repeat: no-repeat;  
}  
  
.membersignupbox {  
    display: block;  
    padding: 5px;  
    background-color: #000;  
    background: rgba(0, 0, 0, 0.6);  
    width: 550px;  
    height: 510px;  
    padding: 10px;  
    margin: auto;  
    border-radius: 10px;  
    font-family: Helvetica, sans-serif;  
    font-size: 40px;  
}  
  
.memberloginbox {  
    display: block;  
    padding: 5px;  
    background-color: #000;  
    background: rgba(0, 0, 0, 0.6);  
    width: 550px;  
    height: 430px;  
    padding: 10px;  
    margin: auto;  
    border-radius: 10px;  
    font-family: Helvetica, sans-serif;  
    font-size: 40px;  
}  
  
.librarianloginbox {  
    display: block;  
    padding: 5px;  
    background-color: #000;  
    background: rgba(0, 0, 0, 0.6);  
    width: 550px;  
    height: 360px;  
    padding: 10px;  
    margin: auto;  
    border-radius: 10px;  
    font-family: Helvetica, sans-serif;  
    font-size: 40px;  
}
```

```

#button {
    font-size: 20px;
    color: white;
    background: crimson;
    border: 2px solid rgb(37, 34, 34);
    border-radius: 10px;
    padding-top: 10px;
    padding-bottom: 10px;
    padding-right: 10px;
    padding-left: 10px;
    cursor: pointer;
    margin: 0 40px;
}

#button:hover {
    background-color: grey; /* Add a grey background on hover */
}

h3 {
    color: white;
    text-align: center;
    font-size: 50px;
    font-family:Papyrus, fantasy;
}

body{
    text-align: center;
    font-size: 30px;
    color: white;
}

.field {
    color: white;
    font-size: 30px;
    text-align: left;
}

#textboxid {
    height: 30px;
    width: 290px;
    font-size: 13pt;
}

.tips{
    color: white;
    opacity: 0.4;
    font-style: italic;
    font-size: 16px;
}

```

### ***homestyle.css***

```
* {
    margin: 0;
    padding: 0;
}

.background-image{
    background-image: url("/library/img/library_background.jpg");
    background-size: cover;
    height: 100vh;
    background-attachment: fixed;
    background-repeat: no-repeat;
}

.newarrivedbookbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.bookdetailsbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.authorbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.profilebox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
```

```
width: 600px;
height: auto;
padding: 10px;
margin: auto;
border-radius: 10px;
}

.booklistbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.issuerecordbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.recorddetailsbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.addbookbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: 600px;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.memberlistbox {
```

```
        display: block;
        padding: 5px;
        background-color: #000;
        background: rgba(0, 0, 0, 0.6);
        width: 800px;
        height: auto;
        padding: 10px;
        margin: auto;
        border-radius: 10px;
    }

.librarianlistbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.addlibrarianbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: 700px;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.changepasswordbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: 720px;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.memberdetailsbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
```

```

        border-radius: 10px;
    }

.librariandetailsbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

.recorddetailsbox {
    display: block;
    padding: 5px;
    background-color: #000;
    background: rgba(0, 0, 0, 0.6);
    width: auto;
    height: auto;
    padding: 10px;
    margin: auto;
    border-radius: 10px;
}

body {
    margin: 0;
    font-family: "Lato", sans-serif;
}

h3 {
    font-family:Papyrus, fantasy;
    text-align: left;
    font-size: 25px;
}

h1 {
    font-family:Papyrus, fantasy;
    font-size: 50px;
}

.field {
    color: white;
    font-size: 30px;
    text-align: left;
}

#member_id, #name, #author, #quantity, #email, #phone, #record_id,
#book_id,
#book_name, #issue_date, #return_date, #returned, #librarian_id,
#textboxid,
#member_name {
    height: 30px;
    width: 290px;
}

```

```

        font-size: 13pt;
    }

#btn_editprofile, #btn_saveprofile, #btn_cancelprofile,
#btn_issueBook, #btn_returnBook,
#button, #btn_edit, #btn_save, #btn_cancel, #btn_delete {
    font-size: 20px;
    color: white;
    background: crimson;
    border: 2px solid rgb(37, 34, 34);
    border-radius: 10px;
    padding-top: 10px;
    padding-bottom: 10px;
    padding-right: 10px;
    padding-left: 10px;
    cursor: pointer;
    margin: auto;
}

#btn_returnBook, #button:hover {
    background-color: grey; /* Add a grey background on hover */
}

#info {
    text-align: left;
}

.sidebar {
    margin: 0;
    width: 120px;
    background-color: black;
    position: fixed;
    height: 100%;
    overflow: auto;
}

.sidebar a {
    display: block;
    color: white;
    padding: 16px;
    text-decoration: none;
    cursor: pointer;
}

.sidebar a.active {
    background-color: gold;
    color: black;
}

.sidebar a:hover:not(.active) {
    background-color: white;
    color: black;
}

.topbar {
    width: 100%;
}

```

```

margin:0;
background-color: black;
position: fixed;
overflow: auto;
top:0;
}

.topbar a {
display: block;
color: white;
padding: 16px;
text-decoration: none;
text-align: center;
}

.topbar a:hover:not(.active) {
color: gold;
}

a:link {
color: white;
}

div.content {
margin-left: 120px;
margin-top: 50px;
text-align: center;
padding: 1px 16px;
color: white;
font-size: 25px;
}

@media screen and (max-width: 700px) {
.sidebar {
width: 100%;
height: auto;
position: fixed;
top:50px;
}
.sidebar a {float: left;}
div.content {
margin-left: 0;
margin-top:100px;
}
}

@media screen and (max-width: 400px) {
.sidebar a {
text-align: center;
float: none;
}
}

.search select{
background-color: white;

```

```
    font-size: 25px;
}
.search input[type="text"]{
    background-color: rgb(255, 255, 255);
    font-size: 25px;
}
.search input[type="submit"]{
    font-size: 20px;
    color: white;
    background: crimson;
    border: 2px solid rgb(37, 34, 34);
    border-radius: 10px;
    padding-top: 10px;
    padding-bottom: 10px;
    padding-right: 10px;
    padding-left: 10px;
    cursor: pointer;
    margin: auto;
}

.search input[type="submit"]:hover {
    background-color: grey; /* Add a grey background on hover */
}
```

**library\_sql.txt**

```
CREATE DATABASE library;
USE library;

CREATE TABLE book(
    id VARCHAR(6) PRIMARY KEY DEFAULT '0',
    name VARCHAR(100),
    author VARCHAR(50),
    quantity INT(3)
);
CREATE TABLE member(
    id VARCHAR(6) PRIMARY KEY DEFAULT '0',
    password VARCHAR(50),
    name VARCHAR(50),
    email VARCHAR(50),
    phone VARCHAR(13)
);
CREATE TABLE librarian(
    id VARCHAR(6) PRIMARY KEY DEFAULT '0',
    password VARCHAR(50),
    name VARCHAR(50),
    email VARCHAR(50),
    phone VARCHAR(13)
);
CREATE TABLE record(
    id VARCHAR(6) PRIMARY KEY DEFAULT '0',
    book_id VARCHAR(6),
    member_id VARCHAR(6),
    FOREIGN KEY (book_id) REFERENCES book(id),
    FOREIGN KEY (member_id) REFERENCES member(id),
    issue_date VARCHAR(50),
    return_date DATE,
    returned BOOLEAN
);
CREATE TABLE book_seq(
    id INT AUTO_INCREMENT PRIMARY KEY
);
DELIMITER $$

CREATE TRIGGER tg_book_insert
BEFORE INSERT ON book
FOR EACH ROW
BEGIN
    INSERT INTO book_seq VALUES (NULL);
    SET NEW.id = CONCAT('B', LPAD(LAST_INSERT_ID(), 5, '0'));
END$$
DELIMITER ;

CREATE TABLE member_seq(
    id INT AUTO_INCREMENT PRIMARY KEY
);
DELIMITER $$

CREATE TRIGGER tg_member_insert
BEFORE INSERT ON member
FOR EACH ROW
```

```

BEGIN
    INSERT INTO member_seq VALUES (NULL);
    SET NEW.id = CONCAT('M', LPAD(LAST_INSERT_ID(), 5, '0'));
END$$
DELIMITER ;

CREATE TABLE librarian_seq(
    id INT AUTO_INCREMENT PRIMARY KEY
);
DELIMITER $$
CREATE TRIGGER tg_librarian_insert
BEFORE INSERT ON librarian
FOR EACH ROW
BEGIN
    INSERT INTO librarian_seq VALUES (NULL);
    SET NEW.id = CONCAT('L', LPAD(LAST_INSERT_ID(), 5, '0'));
END$$
DELIMITER ;

CREATE TABLE record_seq(
    id INT AUTO_INCREMENT PRIMARY KEY
);
DELIMITER $$
CREATE TRIGGER tg_record_insert
BEFORE INSERT ON record
FOR EACH ROW
BEGIN
    INSERT INTO record_seq VALUES (NULL);
    SET NEW.id = CONCAT('R', LPAD(LAST_INSERT_ID(), 5, '0'));
END$$
DELIMITER ;

DELIMITER $$
CREATE TRIGGER tg_afterissuebook
AFTER INSERT ON record
FOR EACH ROW
BEGIN
    UPDATE book SET quantity = quantity-1
    WHERE book.id = NEW.book_id;
END$$
DELIMITER ;

DELIMITER $$
CREATE TRIGGER tg_afterreturnbook
AFTER UPDATE ON record
FOR EACH ROW
BEGIN
    UPDATE book SET quantity = quantity+1
    WHERE book.id = OLD.book_id
    AND OLD.returned = 0
    AND NEW.returned = 1;
END$$
DELIMITER ;

INSERT INTO `book`(`name`, `author`, `quantity`)
VALUES

```

```

('C++ For Dummies','Stephen R. Davis','3');

INSERT INTO `librarian`(`password`, `name`, `email`, `phone`)
VALUES
('abc123','Theng Yuan
Yuan','1191100477@student.mmu.edu.my','01115050811');

INSERT INTO `member`(`password`, `name`, `email`, `phone`)
VALUES
('password','Donald Trump','donald@gmail.com','01112223333');

INSERT INTO `record`(`book_id`, `member_id`, `issue_date`,
`return_date`, `returned`)
VALUES
('B00001','M00001',CURRENT_DATE(), DATE_ADD(now(),interval 5 day),
, false);

INSERT INTO `book`(`name`, `author`, `quantity`)
VALUES
("Harry Potter and the Philosopher's Stone",'J. K. Rowling','3'),
("Harry Potter and the Chamber of Secrets",'J. K. Rowling','3'),
("Harry Potter and the Prisoner of Azkaban",'J. K. Rowling','3'),
("Harry Potter and the Goblet of Fire",'J. K. Rowling','3'),
("Harry Potter and the Order of the Phoenix",'J. K. Rowling','3'),
("Harry Potter and the Half-Blood Prince",'J. K. Rowling','3'),
("Harry Potter and the Deathly Hallows",'J. K. Rowling','3'),
("Harry Potter and the Cursed Child - Parts One and Two",'J. K.
Rowling','3');

```

```

/membeauthor.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/");
    exit();
}
$author=$_REQUEST['author'];
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a class="active" href="booklist.php">Books</a>
    <a href="recordlist.php">Records</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">

<div class="content">
<br>
<h1><?php echo $author?>'s Book</h1>
<br>

<div class="box authorbox">

<?php
    // connect the MySQL server
    if(!($connection = mysqli_connect("localhost", "root",
"")))
        die( "Could not connect to database </body></html>" );

    // access the database
    if ( !mysqli_select_db($connection, "library") )
        die( "Could not open library database </body></html>" );

    $query = "SELECT * FROM book WHERE author='$author' ORDER BY
id;";

    // execute the query

```

```

if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>"
);
}
// disconnect from the server
mysqli_close( $connection);

echo "<table class = 'booklist'>";
echo "<tr>
    <th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Book
ID&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>
    <th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Book
Name&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Quantity&nbsp;&nbsp;&nbsp;
&nbsp;&nbsp;</th>
    </tr>";

while ( $row = mysqli_fetch_row( $result ) )
{
    echo "
<tr>
    <td><a href='book.php?book_id=$row[0]'>$row[0]</a></td>
    <td>$row[1]</td>
    <td>$row[3]</td>
    </tr>
";
}

echo "</table>

?>
</div>

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

```

```

/membe/book.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
$book_id=$_REQUEST['book_id'];
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a class="active" href="booklist.php">Books</a>
    <a href="recordlist.php">Records</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>Book's Details</h1>
    <br>
<div class="box bookdetailsbox">
    <?php
        // connect the MySQL server
        if(!($connection = mysqli_connect("localhost", "root",
"")))
            die( "Could not connect to database </body></html>" );

        // access the database
        if ( !mysqli_select_db($connection, "library") )
            die( "Could not open library database </body></html>" );

        $query = "SELECT * FROM book WHERE id='$book_id';";

        // execute the query
        if ( !( $result = mysqli_query($connection, $query) ) )
{
            echo "<p>Could not execute query!</p>" ;

```

```

        die(mysqli_error($connection) . "</body></html>" );
    }
    // disconnect from the server
    mysqli_close( $connection);

    while ( $row = mysqli_fetch_row( $result ) )
    {
        $book_id=$row[0];
        $book_name=$row[1];
        $author=$row[2];
        $quantity=$row[3];
    }
?>
<form method=post action=processIssue.php onsubmit="return
confirm('Do you confirm to issue this book?')">
    <table>
        <tr><td class="field">&ampnbsp&ampnbspBook ID:&ampnbsp</td>
        <td><input type="text" id="book_name" name="book_id"
value=<?php echo $book_id ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspBook
Name:&ampnbsp</td>
        <td><input type="text" id="book_name" name="book_name"
value=<?php echo $book_name ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspAuthor:&ampnbsp</td>
        <td><input type="text" id="author" name="author"
value=<?php echo $author ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspQuantity:&ampnbsp</td>
        <td><input type="text" id="quantity" name="quantity"
value=<?php echo $quantity ?>" readonly></td></tr>
    </table>
    <br>
<?php
    if($quantity>0){
        echo '<button type="submit" id="btn_issueBook">Issue
this book</button>';
    }else{
        echo '<p>Sorry, this book is not available for
now.</p>';
    }
?>
</form>
</div>
</div>
</div>
</body>
</html>

```

```

/membe/booklist.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a class="active" href="booklist.php">Books</a>
    <a href="recordlist.php">Records</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>List of Books Available</h1>
    <br>
    <form class="search" method="post">
        <select name="search_option">
            <option value="name">Book Name</option>
            <option value="id">Book ID</option>
            <option value="author">Author</option>
            <option value="quantity">Quantity</option>
        </select>
        <input type="text" name="search_text" placeholder="Search..">
        <input type="submit" name="submit" value="Search">
        <br><br>
    </form>

<div class="box booklistbox">
    <?php
        //connection
        $conn = new mysqli("localhost", "root", "", "library");

        //check connection
        if ($conn->connect_error) {

```

```

        die("Connection failed: ".$conn->connect_error);
    }

//prepare and bind
if(isset($_POST["submit"])){
    $search_option = $_POST["search_option"];
    $search_text = $_POST["search_text"];
    $search_text1 = $search_text.'%';
    $search_text2 = '%'.$search_text.'%';
    $search_text3 = '%'.$search_text;

    if ($search_option=="quantity"){
        $stmt = $conn->prepare("SELECT * FROM book
                                WHERE quantity>=1
                                AND (quantity = ?);");
        $stmt->bind_param("i", $search_text);
    }else{
        if($search_option=="name"){
            $stmt = $conn->prepare("SELECT * FROM book
                                WHERE quantity>=1
                                AND (name LIKE ?
                                OR name LIKE ?
                                OR name LIKE ?);");
        }else if ($search_option=="id"){
            $stmt = $conn->prepare("SELECT * FROM book
                                WHERE quantity>=1
                                AND (id LIKE ?
                                OR id LIKE ?
                                OR id LIKE ?);");
        }else if ($search_option=="author"){
            $stmt = $conn->prepare("SELECT * FROM book
                                WHERE quantity>=1
                                AND (author LIKE ?
                                OR author LIKE ?
                                OR author LIKE ?);");
        }
        $stmt->bind_param("sss", $search_text1, $search_text2,
        $search_text3);
    }

}else{
    $stmt = $conn->prepare("SELECT * FROM book WHERE quantity>=1
ORDER BY ID;");
}

$stmt->execute();
$result = $stmt->get_result();

$stmt->close();
$conn->close();

if (mysqli_num_rows($result)==0) {
    echo "Sorry, no book found.";
}else{
    echo "<table class = 'booklist'>";
    echo "<tr>

```

```
<th>&nbsp;&nbsp;Book ID&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;Book Name&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;Author&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;Quantity&nbsp;&nbsp;</th>
</tr>";

while ( $row = $result->fetch_array(MYSQLI_NUM) )
{
    echo "
<tr>
<td><a href='book.php?book_id=$row[0]'>$row[0]</a></td>
<td>$row[1]</td>
<td><a href='author.php?author=$row[2]'>$row[2]</a></td>
<td>$row[3]</td>
</tr>
";
}
echo "</table>";
}

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

```

/membe/changepassword.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="recordlist.php">Records</a>
    <a class="active" href="change password.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>Change Your Password</h1>
    <br>

    <div class="box change password box">
        <br>
        <form action="processChange password.php" method="post">
            <table>
                <tr>
                    <td class="field">&nbsp;&nbsp;Enter Current
Password:&nbsp;</td>
                    <td> <input type="password" id="textboxid"
name="oldpass1" required> </td>
                </tr>
                <tr>
                    <td class="field">&nbsp;&nbsp;Re-enter Current
Password:&nbsp;</td>
                    <td> <input type="password" id="textboxid"
name="oldpass2" required> </td>
                </tr>
                <tr>

```

```
        <td class="field">&nbsp;&nbsp;Enter New  
Password:&nbsp;</td>  
        <td> <input type="password" id="textboxid"  
name="newpass" required> </td>  
    </table>  
    <br><input id=button type=submit value="CHANGE PASSWORD">  
    <input id=button type=reset value=CLEAR>  
</div>  
</div>  
</body>  
</html>
```

```

/membe/home.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>

<div class="sidebar">
    <a class="active" href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="recordlist.php">Records</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <h3>Dear Member, take a look on</h3>
    <br>
    <h1>Our New Arrived Books</h1>
    <br>
    <div class="box newarrivedbookbox">
        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root", ""))
                die( "Could not connect to database </body></html>" );

            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database </body></html>" );

            $query = "SELECT * FROM book WHERE quantity>=1 ORDER BY ID
DESC LIMIT 5;";

            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{

```

```

        echo "<p>Could not execute query!</p>" ;
        die(mysqli_error($connection) . "</body></html>"
);
}
// disconnect from the server
mysqli_close( $connection);

echo "<table class = 'booklist'>";
echo "<tr>
<th>&nbsp;&nbsp;&nbsp;Book ID&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;Book Name&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;Author&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;Quantity&nbsp;&nbsp;&nbsp;</th>
</tr>";

while ( $row = mysqli_fetch_row( $result ) )
{
    echo "
<tr>
<td><a href='book.php?book_id=$row[0]'>$row[0]</a></td>
<td>$row[1]</td>
<td><a href='author.php?author=$row[2]'>$row[2]</a></td>
<td>$row[3]</td>
</tr>
";
}

echo "</table>" ;
?>
</div>
</div>
</div>
</body>
</html>

```

```
/member/logout.php
<?php
    session_start();
    $login_id = $_SESSION["id"];
    if($login_id == NULL) {
        header("Location: /library/"); /* Redirect browser */
        exit();
    }
    session_destroy();
    echo '<script type="text/javascript">
        alert("You have logged out.");
        location.href = "/library/librarian";
    </script>';
?

```

```

/membe/processChangepassword.php
<?php
    session_start();
    $login_id = $_SESSION["id"];
    if($login_id == NULL){
        header("Location: /library/"); /* Redirect browser */
        exit();
    }
?>

<!DOCTYPE html>
<html>
    <body>
        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
                die( "Could not connect to database
</body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );
        extract($_POST);

        // build the query to select data into librarian table
        $query = "SELECT password FROM member WHERE
id='$login_id';

        // execute the query
        if ( !( $result = mysqli_query($connection, $query) ) )
{
            echo "<p>Could not execute query!</p>" ;
            die(mysqli_error($connection) . "</body></html>" );
}
        }
        // disconnect from the server
        mysqli_close( $connection);

        while ( $row = mysqli_fetch_row( $result ) )
{
            $curpass = $row[0];
}

        if($oldpass1!=$oldpass2){
            echo '<script>
                alert("You have entered different password.");
                window.location ="changepassword.php";
            </script>';
        }else if($oldpass1!=$curpass){
            echo '<script>
                alert("You have entered wrong password.");
                window.location ="changepassword.php";
            </script>';
        }
    }
?>
```

```

        </script>';
} else if($curpass==$newpass) {
    echo '<script>
        alert("The new password and current password
cannot be the same.");
        window.location ="changepassword.php";
    </script>';
} else if($oldpass1==$curpass) {

    // connect the MySQL server
    if(!($connection = mysqli_connect("localhost", "root",
"")))
        die( "Could not connect to database
</body></html>" );

    // access the database
    if ( !mysqli_select_db($connection, "library") )
        die( "Could not open library database
</body></html>" );

    extract($_POST);

    // build the query to update data into member table
    $query = "UPDATE member SET password = '$newpass'
WHERE id='$login_id'";

    // execute the query
    if ( !( $result = mysqli_query($connection, $query) ) )
    {
        echo "<p>Could not execute query!</p>" ;
        die(mysqli_error($connection) . "</body></html>" );
    }
    // disconnect from the server
    mysqli_close( $connection);

    echo '<script>
        alert("Password changed successfully.");
        window.location ="changepassword.php";
    </script>';
}
?>
</body>
</html>

```

```

/membe/processIssue.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
    <body>
        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
                die( "Could not connect to database
</body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );

            extract($_POST);

            // build the query to insert data into member table
            $query = "INSERT INTO record (book_id, member_id,
issue_date, return_date, returned)
                    VALUES('$book_id','$login_id', CURRENT_DATE(),
DATE_ADD(now(),interval 5 day), 'false')";

            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{
                echo "<p>Could not execute query!</p>" ;
                die(mysqli_error($connection) . "</body></html>" );
            }
            // disconnect from the server
            mysqli_close( $connection);
        ?>

        <script>
            alert("Book Issued Successfully!");
            window.location ='book.php?book_id=<?php echo $book_id?>';
        </script>
    </body>
</html>

```

```

/membe/processProfile.php
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            //connection
            $conn = new mysqli("localhost","root","","library");

            //check connection
            if ($conn->connect_error){
                die("Connection failed: ".$conn->connect_error);
            }
            extract($_POST);

            //prepare and bind
            $stmt = $conn->prepare("UPDATE member SET name = ?, email = ?, phone = ? WHERE id=?");
            $stmt->bind_param("ssss", $name, $email, $phone, $member_id);

            $stmt->execute();
            $result = $stmt->get_result();

            $stmt->close();
            $conn->close();
        ?>

        <script>
            alert("Profile Updated Successfully!");
            window.location ='profile.php';
        </script>
    </body>
</html>

```

```

/membe/processReturn.php
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            // connect to the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
                die( "Could not connect to database
</body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );
            extract($_POST);
            // build the query to insert data into member table
            $query = "UPDATE record SET return_date=CURRENT_DATE(),
returned=1 WHERE id='$record_id';";
            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{
                echo "<p>Could not execute query!</p>" ;
                die(mysqli_error($connection) . "</body></html>" );
}
            // disconnect from the server
            mysqli_close( $connection );
        ?>

        <script>
            alert("Book Returned Successfully!");
            window.location ='record.php?record_id=<?php echo
$record_id?>';
        </script>
    </body>
</html>

```

```

/membe/member/profile.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!--session_start()
//On page 1
$_SESSION['login_id'] = $login_id;

//On page 2
$login_id = $_SESSION['login_id'];
-->

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a class="active" href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="recordlist.php">Records</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>Your Profile</h1>
    <br>
    <div class="box profilebox">
        <?php
            // connect the MySQL server
            if(!$connection = mysqli_connect("localhost", "root",
""))
                die( "Could not connect to database </body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database </body></html>" );

```

```

$query = "SELECT * FROM member WHERE id = '$login_id';";

// execute the query
if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
}

// disconnect from the server
mysqli_close( $connection);

while ( $row = mysqli_fetch_row( $result ) )
{
    $member_id=$row[0];
    $password=$row[1];
    $name=$row[2];
    $email=$row[3];
    $phone=$row[4];
}
?>
<br>
<form method=post action=processProfile.php class="profile"
onsubmit="return confirm('Do you really want to change profile
information?')">
    <table>
        <tr><td class="field">&ampnbsp&ampnbspMember ID:&ampnbsp</td>
        <td><input type="text" id="member_id" name="member_id"
value=<?php echo $member_id ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspName:&ampnbsp</td>
        <td><input type="text" id="name" name="name" value=<?php
echo $name ?>" readonly required></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspEmail:&ampnbsp</td>
        <td><input type="text" id="email" name="email" value=<?php
echo $email ?>" readonly required></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspPhone Number:&ampnbsp</td>
        <td><input type="text" id="phone" name="phone" value=<?php
echo $phone ?>" readonly required></td></tr>
    </table>

    <br>
    <button type="button" id="btn_editprofile"
onclick="editProfile()">Edit</button>
    <button type="submit" id="btn_saveprofile" style="display:
none;" value="Submit">Save</button>
    <button type="reset" id="btn_cancelprofile" style="display:
none;" onclick="cancelProfile()" value="Reset">Cancel</button>
    </form>
</div>
</div>
</div>

<script>
    function editProfile(){
        document.getElementById("name").readOnly = false;
        document.getElementById("email").readOnly = false;
        document.getElementById("phone").readOnly = false;

```

```
document.getElementById("btn_editprofile").style.display =
"none";
    document.getElementById("btn_saveprofile").style.display =
"inline";
        document.getElementById("btn_cancelprofile").style.display
= "inline";
    }
    function cancelProfile(){
        document.getElementById("name").readOnly = true;
        document.getElementById("email").readOnly = true;
        document.getElementById("phone").readOnly = true;
        document.getElementById("btn_editprofile").style.display =
"block";
        document.getElementById("btn_saveprofile").style.display =
"none";
        document.getElementById("btn_cancelprofile").style.display
= "none";
    }
</script>
</body>
</html>
```

```

/membe/record.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
$record_id=$_REQUEST['record_id'];
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a class="active" href="recordlist.php">Records</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">

<div class="content">
    <br>
    <h1>Record's Details</h1>
    <br>
<div class="box recorddetailsbox">
    <?php
        // connect the MySQL server
        if(!($connection = mysqli_connect("localhost", "root",
"")))
            die( "Could not connect to database </body></html>" );

        // access the database
        if ( !mysqli_select_db($connection, "library") )
            die( "Could not open library database </body></html>" );

        $query = "SELECT record.id, record.book_id, book.name,
record.issue_date, record.return_date, record.returned
                FROM record
                INNER JOIN book ON record.book_id=book.id
                WHERE record.id='$_record_id';";

```

```

// execute the query
    if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>"
);
}
// disconnect from the server
mysqli_close( $connection);

while ( $row = mysqli_fetch_row( $result ) )
{
    $record_id=$row[0];
    $book_id=$row[1];
    $book_name=$row[2];
    $issue_date=$row[3];
    $return_date=$row[4];
    $returned=$row[5];
}
?>
<form method=post action=processReturn.php
onload="checkReturned()" onsubmit="return confirm('Do you confirm
to return this book?')"
<table>
    <tr><td class="field">&ampnbsp&ampnbspRecord ID:&ampnbsp</td>
    <td><input type="text" id="record_id" name="record_id"
value=<?php echo $record_id ?>" readonly>
    <tr><td class="field">&ampnbsp&ampnbspBook ID:&ampnbsp</td>
    <td><input type="text" id="book_id" name="book_id"
value=<?php echo $book_id ?>" readonly>
    <tr><td class="field">&ampnbsp&ampnbspBook Name:&ampnbsp</td>
    <td><input type="text" id="book_name" name="book_name"
value=<?php echo $book_name ?>" readonly>
    <tr><td class="field">&ampnbsp&ampnbspIssue Date:&ampnbsp</td>
    <td><input type="text" id="issue_date" name="issue_date"
value=<?php echo $issue_date ?>" readonly>
    <tr><td class="field">&ampnbsp&ampnbspReturn
Date:&ampnbsp</td>
    <td><input type="text" id="return_date"
name="return_date" value=<?php echo $return_date ?>" readonly>
    <tr><td class="field">&ampnbsp&ampnbspReturned:&ampnbsp</td>
    <td><input type="text" id="returned" name="returned"
value=<?php if($returned==1){ echo "Yes";} else{ echo "No";} ?>" readonly>
</table>
<br>
<?php
    if($returned==0){
        echo '<button type="submit"
id="btn_returnBook">Return this book</button>';
    }
?>
</form>
</div>
</div>

```

```

</body>
</html>

/member/recordlist.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a class="active" href="recordlist.php">Records</a>
        <a href="changepassword.php">Password</a>
        <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Your Issue Records</h1>
    <br>
    <form class="search" method="post">
        <select id="searchop" name="search_option"
onchange="setPlaceholder()">
            <option value="book_name">Book Name</option>
            <option value="record_id">Record ID</option>
            <option value="book_id">Book ID</option>
            <option value="issue_date">Issue Date</option>
            <option value="return_date">Return Date</option>
        </select>
        <input type="text" id="searchbar" name="search_text"
placeholder="Search..">
        <input type="submit" name="submit" value="Search">
        <br><br>
    </form>

```

```

<div class="box issuerecordbox">
<?php
    //connection
    $conn = new mysqli("localhost","root","","library");

    //check connection
    if ($conn->connect_error){
        die("Connection failed: ".$conn->connect_error);
    }

    //prepare and bind
    if(isset($_POST["submit"])){
        $search_option = $_POST["search_option"];
        $search_text = $_POST["search_text"];
        $search_text1 = $search_text.'%';
        $search_text2 = '%'.$search_text.'%';
        $search_text3 = '%'.$search_text;

        if
        ($search_option=="issue_date"||$search_option=="return_date"){
            if ($search_option=="issue_date"){
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.issue_date, record.return_date,
record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    WHERE member_id = '$login_id'
                    AND issue_date = ?;");
            }else{
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.issue_date, record.return_date,
record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    WHERE member_id = '$login_id'
                    AND return_date = ?;");
            }
            $stmt->bind_param("s", $search_text);
        }else{
            if($search_option=="book_name"){
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.issue_date, record.return_date,
record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    WHERE member_id = '$login_id'
                    AND (book.name LIKE ?
                    OR book.name LIKE ?
                    OR book.name LIKE ?);");
            }else if ($search_option=="record_id"){
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.issue_date, record.return_date,
record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    WHERE member_id = '$login_id'");
            }
        }
    }
}

```

```

        AND (record.id LIKE ?
        OR record.id LIKE ?
        OR record.id LIKE ?);");
    }else if ($search_option=="book_id"){
        $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.issue_date, record.return_date,
record.returned
        FROM record
        INNER JOIN book ON record.book_id=book.id
        WHERE member_id = '$login_id'
        AND (book.id LIKE ?
        OR book.id LIKE ?
        OR book.id LIKE ?);");
    }
    $stmt->bind_param("sss", $search_text1, $search_text2,
$search_text3);
}
}else{
    $stmt = $conn->prepare("SELECT record.id, record.book_id,
book.name, record.issue_date, record.return_date, record.returned
        FROM record
        INNER JOIN book ON record.book_id=book.id
        WHERE member_id = '$login_id'
        ORDER BY ID DESC;");
}

$stmt->execute();
$result = $stmt->get_result();

$stmt->close();
$conn->close();

if (mysqli_num_rows($result)==0) {
    echo "Sorry, no record found.";
}else{
    echo "<table class = 'recordlist'>";
    echo "<tr>
        <th>&nbsp;&nbsp;&nbsp;Record
ID&nbsp;&nbsp;&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;&nbsp;Book ID&nbsp;&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;&nbsp;Book Name&nbsp;&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;&nbsp;Issue date&nbsp;&nbsp;&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;&nbsp;Return date&nbsp;&nbsp;&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;&nbsp;Returned</th>
        <th></th>
    </tr>";
    while ( $row = $result->fetch_array(MYSQLI_NUM) )
    {
        echo "
        <tr>
            <td><a
href='record.php?record_id=$row[0]'>$row[0]</a></td>
            <td><a href='book.php?book_id=$row[1]'\>$row[1]</a></td>
            <td>$row[2]</td>
            <td>$row[3]</td>
            <td>$row[4]</td>

```

```
<td>";
if($row[5]==1) {
    echo "Yes";
} else{
    echo "No";
}
echo "</td>
</tr>
";
}
echo "</table>";
}
?>
</div>
</div>
</body>
</html>
```

```

/librarian/addbook.php
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/");
    exit();
}
?>

<!DOCTYPE HTML>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a class="active" href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
        <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">

<div class="content">
    <br>
    <h1>Add Book</h1>
    <br>

    <div class="box addbookbox">
        <br>
        <form action="processAddbook.php" method="post">
            <table>
                <tr>
                    <td class="field">&ampnbsp&ampnbspEnter Book
Name:&ampnbsp</td>
                    <td> <input type="text" id="textboxid" name="name"
required> </td>
                </tr>
                <tr>
                    <td class="field">&ampnbsp&ampnbspEnter Author
Name:&ampnbsp</td>

```

```
        <td> <input type="text" id="textboxid" name="author"  
required> </td>  
    </tr>  
    <tr>  
        <td class="field">&nbsp;&nbsp;Enter  
Quantity:&nbsp;</td>  
        <td> <input type="number" id="textboxid"  
name="quantity" min=1 required> </td>  
    </table>  
    <br><input id=button type=submit value="ADD">  
    <input id=button type=reset value=CLEAR>  
</form>  
</div>  
</div>  
</body>  
</html>
```

## */librarian/addlibrarian.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/");
    exit();
}
?>

<!DOCTYPE HTML>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a class="active" href="addlibrarian.php">Add Librarian</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">

<div class="content">
    <br>
    <h1>Add Librarian</h1>
    <br>

    <div class="box addlibrarianbox">
        <br>
        <form action="processAddlibrarian.php" method="post">
            <table>
                <tr>
                    <td class="field">&nbsp;&nbsp;Enter Librarian
Name:&nbsp;</td>
                    <td> <input type="text" id="textboxid" name="name"
required> </td>
                </tr>
                <tr>
                    <td class="field">&nbsp;&nbsp;Enter Email:&nbsp;</td>
```

```
        <td> <input type="text" id="textboxid" name="email"
required> </td>
    </tr>
    <tr>
        <td class="field">&nbsp;&nbsp;Enter Phone
number:&nbsp;</td>
        <td> <input type="number" id="textboxid" name="phone"
required> </td>
    </table>
    <br><input id=button type=submit value="ADD">
    <input id=button type=reset value=CLEAR>
</form>
</div>
</div>
</body>
</html>
```

### */librarian/author.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/");
    exit();
}
$author=$_REQUEST['author'];
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a class="active" href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">

<div class="content">
<br>
<h1><?php echo $author?>'s Book</h1>
<br>

<div class="box authorbox">

<?php
    // connect the MySQL server
        if(!$connection = mysqli_connect("localhost", "root",
""))
            die( "Could not connect to database </body></html>" );

    // access the database
    if ( !mysqli_select_db($connection, "library") )
        die( "Could not open library database </body></html>" );

```

```

$query = "SELECT * FROM book WHERE author='\$author' ORDER BY
id;" ;

// execute the query
if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
}

// disconnect from the server
mysqli_close( $connection);

echo "<table class = 'booklist'>";
echo "<tr>
<th>Book ID</th>
<th>Book Name</th>
<th>Quantity</th>
</tr>";

while ( $row = mysqli_fetch_row( $result ) )
{
    echo "
<tr>
<td><a href='book.php?book_id=$row[0]'>$row[0]</a></td>
<td>$row[1]</td>
<td>$row[3]</td>
</tr>
";
}

echo "</table>

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

</body>
</html>

```

## /librarian/book.php

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
$book_id=$_REQUEST['book_id'];
$_SESSION['book_id'] = $book_id;
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a class="active" href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
        <a href="changepassword.php">Password</a>
        <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Book's Details</h1>
    <br>
    <div class="box bookdetailsbox">
    <br>

    <?php
        //connection
        $conn = new mysqli("localhost", "root", "", "library");

        //check connection
        if ($conn->connect_error){
            die("Connection failed: ".$conn->connect_error);
        }
        $stmt = $conn->prepare("SELECT * FROM book WHERE id=?");
    
```

```

$stmt->bind_param("s", $book_id);

$stmt->execute();
$result = $stmt->get_result();

$stmt->close();
$conn->close();

while ( $row = $result->fetch_array(MYSQLI_NUM) )
{
    $book_id=$row[0];
    $book_name=$row[1];
    $author=$row[2];
    $quantity=$row[3];
}
?>
<form method=post action=processEditbook.php
onsubmit="return confirm('Do you confirm to edit this book?')">
    <table>
        <tr><td class="field">&ampnbsp&ampnbspBook ID:&ampnbsp</td>
        <td><input type="text" id="book_name" name="book_id"
value=<?php echo $book_id ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspBook
Name:&ampnbsp</td>
        <td><input type="text" id="book_name" name="book_name"
value=<?php echo $book_name ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspAuthor:&ampnbsp</td>
        <td><input type="text" id="author" name="author"
value=<?php echo $author ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspQuantity:&ampnbsp</td>
        <td><input type="text" id="quantity" name="quantity"
value=<?php echo $quantity ?>" readonly></td></tr>
    </table>
    <br>
    <button type="button" id="btn_edit"
onclick="edit()">Edit</button>
    <button type="submit" id="btn_save" style="display:
none;" value="Submit">Save</button>
    <button type="reset" id="btn_cancel" style="display:
none;" onclick="cancel()" value="Reset">Cancel</button>
    <button type="button" id="btn_delete" style="display:
none;" onclick="deleteBook()">Delete</button>
    </form>
</div>
</div>
<script>
    function edit(){
        document.getElementById("book_name").readOnly = false;
        document.getElementById("author").readOnly = false;
        document.getElementById("quantity").readOnly = false;
        document.getElementById("btn_edit").style.display =
"none";
        document.getElementById("btn_save").style.display =
"inline";
        document.getElementById("btn_cancel").style.display =
"inline";

```

```
        document.getElementById("btn_delete").style.display =
    "inline";
    }
    function cancel() {
        document.getElementById("book_name").readOnly = true;
        document.getElementById("author").readOnly = true;
        document.getElementById("quantity").readOnly = true;
        document.getElementById("btn_edit").style.display =
    "block";
        document.getElementById("btn_save").style.display =
    "none";
        document.getElementById("btn_cancel").style.display =
    "none";
        document.getElementById("btn_delete").style.display =
    "none";
    }
    function deleteBook() {
        if (confirm("Are you sure to delete this book?") == true) {
            window.location = 'processDeletebook.php';
        }
    }
</script>
</div>
</body>
</html>
```

### */librarian/booklist.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a class="active" href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
        <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>List of Books Available</h1>
    <br>

    <form class="search" method="post">
        <select name="search_option">
            <option value="name">Book Name</option>
            <option value="id">Book ID</option>
            <option value="author">Author</option>
            <option value="quantity">Quantity</option>
        </select>
        <input type="text" name="search_text" placeholder="Search..">
        <input type="submit" name="submit" value="Search">
        <br><br>
    </form>

<div class="box booklistbox">
```

```

<?php
    //connection
    $conn = new mysqli("localhost", "root", "", "library");

    //check connection
    if ($conn->connect_error){
        die("Connection failed: ".$conn->connect_error);
    }

    //prepare and bind
    if(isset($_POST["submit"])){
        $search_option = $_POST["search_option"];
        $search_text = $_POST["search_text"];
        $search_text1 = $search_text.'%';
        $search_text2 = '%'.$search_text.'%';
        $search_text3 = '%'.$search_text;

        if ($search_option=="quantity"){
            $stmt = $conn->prepare("SELECT * FROM book
                WHERE quantity>=1
                AND (quantity = ?);");
            $stmt->bind_param("i", $search_text);
        }else{
            if($search_option=="name"){
                $stmt = $conn->prepare("SELECT * FROM book
                    WHERE quantity>=1
                    AND (name LIKE ?
                    OR name LIKE ?
                    OR name LIKE ?);");
            }else if ($search_option=="id"){
                $stmt = $conn->prepare("SELECT * FROM book
                    WHERE quantity>=1
                    AND (id LIKE ?
                    OR id LIKE ?
                    OR id LIKE ?);");
            }else if ($search_option=="author"){
                $stmt = $conn->prepare("SELECT * FROM book
                    WHERE quantity>=1
                    AND (author LIKE ?
                    OR author LIKE ?
                    OR author LIKE ?);");
            }
            $stmt->bind_param("sss", $search_text1, $search_text2,
            $search_text3);
        }

        }else{
            $stmt = $conn->prepare("SELECT * FROM book WHERE quantity>=1
            ORDER BY ID;");
        }

        $stmt->execute();
        $result = $stmt->get_result();
    }

```

```

$stmt->close();
$conn->close();

if (mysqli_num_rows($result)==0) {
    echo "Sorry, no book found.";
} else{
    echo "<table class = 'booklist'>";
    echo "<tr>
        <th>Book ID</th>
        <th>Book Name</th>
        <th>Author</th>
        <th>Quantity</th>
    </tr>";

    while ( $row = $result->fetch_array(MYSQLI_NUM) )
    {
        echo "
        <tr>
            <td><a href='book.php?book_id=$row[0]'>$row[0]</a></td>
            <td>$row[1]</td>
            <td><a href='author.php?author=$row[2]'>$row[2]</a></td>
            <td>$row[3]</td>
        </tr>
    ";
    }

    echo "</table>";
}
?>

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

```

*/librarian/changepassword.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL) {
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a class="active" href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>Change Your Password</h1>
    <br>
    <div class="box changepasswordbox">
        <br>
        <form action="processChangepassword.php" method="post">
            <table>
                <tr>
                    <td class="field">&nbsp;&nbsp;Enter Current
Password:&nbsp;</td>
                    <td> <input type="password" id="textboxid"
name="oldpass1" required> </td>
                </tr>
                <tr>
                    <td class="field">&nbsp;&nbsp;Re-enter Current
Password:&nbsp;</td>
```

```
        <td> <input type="password" id="textboxid"
name="oldpass2" required> </td>
    </tr>
    <tr>
        <td class="field">&nbsp;&nbsp;Enter New
Password:&nbsp;</td>
        <td> <input type="password" id="textboxid"
name="newpass" required> </td>
    </table>
    <br><input id=button type=submit value="CHANGE PASSWORD">
    <input id=button type=reset value=CLEAR>
</div>
</div>
</div>
</body>
</html>
```

*/librarian/deletebook.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            $book_id=$_SESSION['book_id'];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
                    "")))
                die( "Could not connect to database
</body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );
            extract($_POST);
            // build the query to delete data into member table
            $query = "DELETE FROM book WHERE id='$book_id';";
            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{
                echo "<p>Could not execute query!</p>" ;
                die(mysqli_error($connection) . "</body></html>" );
}
            // disconnect from the server
            mysqli_close( $connection );
        ?>

        <script>
            alert("Book Deleted Successfully!");
            window.location ='booklist.php';
        </script>
    </body>
</html>
```

### **/librarian/home.php**

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a class="active" href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>Our New Arrived Books</h1>
    <br>
    <div class="box newarrivedbookbox">

        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
                die( "Could not connect to database </body></html>" );

            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database </body></html>" );
    
```

```

$query = "SELECT * FROM book WHERE quantity>=1 ORDER BY ID
DESC LIMIT 5;";

// execute the query
if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
}

// disconnect from the server
mysqli_close( $connection);

echo "<table class = 'booklist'>";
echo "<tr>
<th>&nbsp;&nbsp;&nbsp;Book ID&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;Book Name&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;Author&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;Quantity&nbsp;&nbsp;&nbsp;</th>
</tr>";

while ( $row = mysqli_fetch_row( $result ) )
{
    echo "
<tr>
<td><a href='book.php?book_id=$row[0]'>$row[0]</a></td>
<td>$row[1]</td>
<td><a href='author.php?author=$row[2]'>$row[2]</a></td>
<td>$row[3]</td>
</tr>
";
}

echo "</table>

?>

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

```

## /librarian/librarian.php

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
$librarian_id=$_REQUEST['librarian_id'];
$_SESSION['librarian_id'] = $librarian_id;
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
    <div class="topbar">
        <a href="home.php">Library Management System</a>
    </div>
    <div class="sidebar">
        <a href="home.php">Home</a>
        <a href="profile.php">Profile</a>
        <a href="booklist.php">Books</a>
        <a href="addbook.php">Add Book</a>
        <a href="recordlist.php">Records</a>
        <a href="memberlist.php">Members</a>
        <a class="active" href="librarianlist.php">Librarians</a>
        <a href="addlibrarian.php">Add Librarian</a>
            <a href="changepassword.php">Password</a>
            <a onclick="confirmlogout()">Log out</a>
    </div>
    <div class="background-image">

        <div class="content">
            <br>
            <h1>Librarian's Details</h1>
            <br>
            <div class="box bookdetailsbox">
                <br>

                <?php
                    // connect the MySQL server
                    if(!($connection = mysqli_connect("localhost", "root",
"")))
                        die( "Could not connect to database </body></html>" );
                // access the database
                if ( !mysqli_select_db($connection, "library") )

```

```

die( "Could not open library database </body></html>" );

$query = "SELECT id, name, email, phone FROM librarian WHERE
id='$librarian_id';";

// execute the query
if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
};

}

// disconnect from the server
mysqli_close( $connection);

while ( $row = mysqli_fetch_row( $result ) )
{
    $librarian_id=$row[0];
    $librarian_name=$row[1];
    $email=$row[2];
    $phone=$row[3];
}

?>


|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                                                                                                                                                                                                                                                                   |                                     |                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|
| &ampnbsp&ampnbspLibrarian<br>ID:&ampnbsp</td> | <td class="field">&amp;ampnbsp&amp;ampnbspLibrarian<br/>Name:&amp;ampnbsp&lt;/td&gt;</td> <td \$librarian_name="" <tr="" ?&gt;&lt;="" echo="" id="info&gt;&lt;?php" td&gt;&lt;="" tr&gt;=""><td class="field">&amp;ampnbsp&amp;ampnbspEmail:&amp;ampnbsp&lt;/td&gt;</td><td \$email="" <tr="" ?&gt;&lt;="" echo="" id="info&gt;&lt;?php" td&gt;&lt;="" tr&gt;=""><td class="field">&amp;ampnbsp&amp;ampnbspPhone:&amp;ampnbsp&lt;/td&gt;</td><td \$phone="" <="" ?&gt;&lt;="" echo="" id="info&gt;&lt;?php" table="" td&gt;&lt;="" tr&gt;=""> &lt;br&gt; &lt;/div&gt; &lt;/div&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt; </td></td></td> | &ampnbsp&ampnbspLibrarian<br>Name:&ampnbsp</td> | <td class="field">&amp;ampnbsp&amp;ampnbspEmail:&amp;ampnbsp&lt;/td&gt;</td> <td \$email="" <tr="" ?&gt;&lt;="" echo="" id="info&gt;&lt;?php" td&gt;&lt;="" tr&gt;=""><td class="field">&amp;ampnbsp&amp;ampnbspPhone:&amp;ampnbsp&lt;/td&gt;</td><td \$phone="" <="" ?&gt;&lt;="" echo="" id="info&gt;&lt;?php" table="" td&gt;&lt;="" tr&gt;=""> &lt;br&gt; &lt;/div&gt; &lt;/div&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt; </td></td> | &ampnbsp&ampnbspEmail:&ampnbsp</td> | <td class="field">&amp;ampnbsp&amp;ampnbspPhone:&amp;ampnbsp&lt;/td&gt;</td> <td \$phone="" <="" ?&gt;&lt;="" echo="" id="info&gt;&lt;?php" table="" td&gt;&lt;="" tr&gt;=""> &lt;br&gt; &lt;/div&gt; &lt;/div&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt; </td> | &ampnbsp&ampnbspPhone:&ampnbsp</td> | <br> </div> </div> </div> </body> </html> |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|


```

*/librarian/librarianlist.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a class="active" href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>

<div class="background-image">
<div class="content">
    <br>
    <h1>Librarian List</h1>
    <br>
    <form class="search" method="post">
        <select name="search_option">
            <option value="name">Librarian Name</option>
            <option value="id">Librarian ID</option>
            <option value="email">Email</option>
            <option value="phone">Phone</option>
        </select>
        <input type="text" name="search_text" placeholder="Search..">
        <input type="submit" name="submit" value="Search">
        <br><br>
    </form>
<div class="box librarianlistbox">
```

```

<?php
//connection
$conn = new mysqli("localhost","root","","library");

//check connection
if ($conn->connect_error){
    die("Connection failed: ".$conn->connect_error);
}

//prepare and bind
if(isset($_POST["submit"])){
    $search_option = $_POST["search_option"];
    $search_text = $_POST["search_text"];
    $search_text1 = $search_text.'%';
    $search_text2 = '%'.$search_text.'%';
    $search_text3 = '%'.$search_text;

    if($search_option=="name"){
        $stmt = $conn->prepare("SELECT id, name, email, phone
FROM librarian
        WHERE (name LIKE ?
        OR name LIKE ?
        OR name LIKE ?);");
    }else if ($search_option=="id"){
        $stmt = $conn->prepare("SELECT id, name, email, phone
FROM librarian
        WHERE (id LIKE ?
        OR id LIKE ?
        OR id LIKE ?);");
    }else if ($search_option=="email"){
        $stmt = $conn->prepare("SELECT id, name, email, phone
FROM librarian
        WHERE (email LIKE ?
        OR email LIKE ?
        OR email LIKE ?);");
    }else if ($search_option=="phone"){
        $stmt = $conn->prepare("SELECT id, name, email, phone
FROM librarian
        WHERE (phone LIKE ?
        OR phone LIKE ?
        OR phone LIKE ?);");
    }
    $stmt->bind_param("sss", $search_text1, $search_text2,
$search_text3);

}else{
    $stmt = $conn->prepare("SELECT id, name, email, phone FROM
librarian ORDER BY ID;");
}

$stmt->execute();
$result = $stmt->get_result();

$stmt->close();
$conn->close();

```

```

if (mysqli_num_rows($result)==0) {
    echo "Sorry, no librarian found.";
} else{
    echo "<table class = 'list'>";
    echo "<tr>
        <th>&nbsp;&nbsp;&nbsp;&nbsp;Librarian
ID&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Librarian
Name&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>&nbsp;&nbsp;&nbsp;&nbsp;Email&nbsp;&nbsp;&nbsp;&nbsp;</th>
<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Phone&nbsp;&nb
sp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>
    </tr>";

    while ( $row = $result->fetch_array(MYSQLI_NUM) )
    {
        echo "
        <tr>
            <td><a
href='librarian.php?librarian_id=$row[0]'>$row[0]</a></td>
            <td>$row[1]</td>
            <td><a href='mailto:$row[2]'>$row[2]</a></td>
            <td><a href='tel:$row[3]'>$row[3]</td>
        </tr>
        ";
    }

    echo "</table>";
}
?>

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

```

*/librarian/logout.php*

```
<?php
    session_start();
    $login_id = $_SESSION["id"];
    if($login_id == NULL) {
        header("Location: /library/"); /* Redirect browser */
        exit();
    }
    session_destroy();
    echo '<script type="text/javascript">
        alert("You have logged out.");
        location.href = "../librarian/";
    </script>';
?>
```

## */librarian/member.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
$member_id=$_REQUEST['member_id'];
$_SESSION['member_id'] = $member_id;
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a class="active" href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
        <a href="changepassword.php">Password</a>
        <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Member's Details</h1>
    <br>
<div class="box bookdetailsbox">
<br>

<?php
    // connect the MySQL server
    if(!($connection = mysqli_connect("localhost", "root",
"")))
        die( "Could not connect to database </body></html>" );

    // access the database
    if ( !mysqli_select_db($connection, "library") )
        die( "Could not open library database </body></html>" );
```

```

    $query = "SELECT id, name, email, phone FROM member WHERE
id='$_member_id';";

    // execute the query
    if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
}

    // disconnect from the server
    mysqli_close( $connection);

while ( $row = mysqli_fetch_row( $result ) )
{
    $member_id=$row[0];
    $member_name=$row[1];
    $email=$row[2];
    $phone=$row[3];
}

?>
<form method=post action=processEditmember.php
onsubmit="return confirm('Do you confirm to edit this member?')">
<table>
    <tr><td class="field">&ampnbsp&ampnbspMember
ID:&ampnbsp</td>
        <td><input type="text" id="member_id" name="member_id"
value=<?php echo $member_id ?>" readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspMember
Name:&ampnbsp</td>
            <td><input type="text" id="member_name"
name="member_name" value=<?php echo $member_name ?>" readonly
required></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspEmail:&ampnbsp</td>
            <td><input type="text" id="email" name="email"
value=<?php echo $email ?>" readonly required></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspPhone:&ampnbsp</td>
            <td><input type="text" id="phone" name="phone"
value=<?php echo $phone ?>" readonly required></td></tr>
    </table>
    <br>
    <button type="button" id="btn_edit"
onclick="edit()">Edit</button>
    <button type="submit" id="btn_save" style="display:
none;" value="Submit">Save</button>
    <button type="reset" id="btn_cancel" style="display:
none;" onclick="cancel()" value="Reset">Cancel</button>
    <button type="button" id="btn_delete" style="display:
none;" onclick="deleteMember()">Delete</button>
</form>

</div>
</div>
<script>
function edit() {

```

```

        document.getElementById("member_name").readOnly = false;
        document.getElementById("email").readOnly = false;
        document.getElementById("phone").readOnly = false;
        document.getElementById("btn_edit").style.display =
"none";
        document.getElementById("btn_save").style.display =
"inline";
        document.getElementById("btn_cancel").style.display =
"inline";
        document.getElementById("btn_delete").style.display =
"inline";
    }
    function cancel(){
        document.getElementById("member_name").readOnly = true;
        document.getElementById("email").readOnly = true;
        document.getElementById("phone").readOnly = true;
        document.getElementById("btn_edit").style.display =
"block";
        document.getElementById("btn_save").style.display =
"none";
        document.getElementById("btn_cancel").style.display =
"none";
        document.getElementById("btn_delete").style.display =
"none";
    }
    function deleteMember(){
        if (confirm("Are you sure to delete this member?") == true) {
            window.location = 'processDeleteMember.php';
        }
    }
</script>
</div>
</body>
</html>

```

**/librarian/memberlist.php**

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a class="active" href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Member List</h1>
    <br>

    <form class="search" method="post">
        <select name="search_option">
            <option value="name">Member Name</option>
            <option value="id">Member ID</option>
            <option value="email">Email</option>
            <option value="phone">Phone</option>
        </select>
        <input type="text" name="search_text" placeholder="Search..">
        <input type="submit" name="submit" value="Search">
        <br><br>
    </form>

<div class="box memberlistbox">
```

```

<?php
    //connection
    $conn = new mysqli("localhost", "root", "", "library");

    //check connection
    if ($conn->connect_error) {
        die("Connection failed: ".$conn->connect_error);
    }

    //prepare and bind
    if(isset($_POST["submit"])){
        $search_option = $_POST["search_option"];
        $search_text = $_POST["search_text"];
        $search_text1 = $search_text.'%';
        $search_text2 = '%'.$search_text.'%';
        $search_text3 = '%'.$search_text;

        if($search_option=="name"){
            $stmt = $conn->prepare("SELECT id, name, email, phone
FROM member
            WHERE (name LIKE ?
            OR name LIKE ?
            OR name LIKE ?);");
        }else if ($search_option=="id"){
            $stmt = $conn->prepare("SELECT id, name, email, phone
FROM member
            WHERE (id LIKE ?
            OR id LIKE ?
            OR id LIKE ?);");
        }else if ($search_option=="email"){
            $stmt = $conn->prepare("SELECT id, name, email, phone
FROM member
            WHERE (email LIKE ?
            OR email LIKE ?
            OR email LIKE ?);");
        }else if ($search_option=="phone"){
            $stmt = $conn->prepare("SELECT id, name, email, phone
FROM member
            WHERE (phone LIKE ?
            OR phone LIKE ?
            OR phone LIKE ?);");
        }
        $stmt->bind_param("sss", $search_text1, $search_text2,
$search_text3);

    }else{
        $stmt = $conn->prepare("SELECT id, name, email, phone FROM
member ORDER BY ID;");
    }

    $stmt->execute();
    $result = $stmt->get_result();

    $stmt->close();
    $conn->close();

```

```

if (mysqli_num_rows($result)==0) {
    echo "Sorry, no member found.";
} else{
    echo "<table class = 'list'>";
    echo "<tr>
        <th>&nbsp;&nbsp;Member ID&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;Member Name&nbsp;&nbsp;</th>
        <th>&nbsp;&nbsp;Email&nbsp;&nbsp;</th>

<th>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Phone&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>
        </tr>";

    while ( $row = $result->fetch_array(MYSQLI_NUM) )
    {
        echo "
        <tr>
            <td><a
href='member.php?member_id=$row[0]'>$row[0]</a></td>
            <td>$row[1]</td>
            <td><a href='mailto:$row[2]'>$row[2]</a></td>
            <td><a href='tel:$row[3]'>$row[3]</td>
        </tr>
        ";
    }

    echo "</table>";
}
?>

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

```

*/librarian/processAddbook.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
    <body>
        <?php
        //connection
        $conn = new mysqli("localhost","root","","library");

        //check connection
        if ($conn->connect_error){
            die("Connection failed: ".$conn->connect_error);
        }

        extract($_POST);

        //prepare and bind
        $stmt = $conn->prepare("INSERT INTO book (name, author,
quantity)
                                VALUES (?,?,?);");
        $stmt->bind_param("ssi", $name, $author, $quantity);

        $stmt->execute();
        $result = $stmt->get_result();

        $stmt->close();
        $conn->close();
        ?>

        <script>
            alert("Book Added Successfully!");
            window.location ='booklist.php';
        </script>
    </body>
</html>
```

*/librarian/processAddlibrarian.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
    <body>
        <?php
        //connection
        $conn = new mysqli("localhost","root","","library");

        //check connection
        if ($conn->connect_error){
            die("Connection failed: ".$conn->connect_error);
        }

        extract($_POST);

        //prepare and bind
        $stmt = $conn->prepare("INSERT INTO librarian (name,
email, phone, password)
VALUES(?, ?, ?, ?);");
        $stmt->bind_param("ssss", $name, $email, $phone,
$phone);

        $stmt->execute();
        $result = $stmt->get_result();

        $stmt->close();
        $conn->close();
        ?>

        <script>
            alert("Librarian Added Successfully! \nNote: The default
password is set to the phone number.");
            window.location ='librarianlist.php';
        </script>
    </body>
</html>
```

*/librarian/processChangepassword.php*

```
<?php
    session_start();
    $login_id = $_SESSION["id"];
    if($login_id == NULL) {
        header("Location: /library/"); /* Redirect browser */
        exit();
    }
?>

<!DOCTYPE html>
<html>
    <body>
        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
""))) {
                die( "Could not connect to database
</body></html>" );
            }

            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );

            extract($_POST);

            // build the query to select data into librarian table
            $query = "SELECT password FROM librarian WHERE
id='$login_id'";

            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{
                echo "<p>Could not execute query!</p>" ;
                die(mysqli_error($connection) . "</body></html>" );
            }
            // disconnect from the server
            mysqli_close( $connection );

            while ( $row = mysqli_fetch_row( $result ) )
{
                $curpass = $row[0];
            }

            if($oldpass1!=$oldpass2) {
                echo '<script>
                    alert("You have entered different password.");
                    window.location ="changepassword.php";
                </script>';
            }else if($oldpass1!=$curpass) {
                echo '<script>
                    alert("You have entered wrong password.");
                </script>';
            }
        }
?>
```

```

        window.location ="changepassword.php";
    </script>';
}else if($curpass==$newpass) {
    echo '<script>
        alert("The new password and current password
cannot be the same.");
        window.location ="changepassword.php";
    </script>';
}else if($oldpass1==$curpass) {

    // connect the MySQL server
    if(!($connection = mysqli_connect("localhost", "root",
"")))
        die( "Could not connect to database
</body></html>" );

    // access the database
    if ( !mysqli_select_db($connection, "library") )
        die( "Could not open library database
</body></html>" );

    extract($_POST);

    // build the query to select data into librarian table
    $query = "UPDATE librarian SET password = '$newpass'
WHERE id='$login_id'";

    // execute the query
    if ( !( $result = mysqli_query($connection, $query) ) )
    {
        echo "<p>Could not execute query!</p>" ;
        die(mysqli_error($connection) . "</body></html>" );
    }
    // disconnect from the server
    mysqli_close( $connection);

    echo '<script>
        alert("Password changed successfully.");
        window.location ="changepassword.php";
    </script>';
}
?>
</body>
</html>

```

*/librarian/processDeletebook.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            $book_id=$_SESSION['book_id'];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
                    "")))
                die( "Could not connect to database
</body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );
            extract($_POST);
            // build the query to delete data into member table
            $query = "DELETE FROM book WHERE id='$book_id';";
            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{
                echo "<p>Could not execute query!</p>" ;
                die(mysqli_error($connection) . "</body></html>" );
}
            // disconnect from the server
            mysqli_close( $connection );
        ?>

        <script>
            alert("Book Deleted Successfully!");
            window.location ='booklist.php';
        </script>
    </body>
</html>
```

*/librarian/processDeleteMember.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            $member_id=$_SESSION['member_id'];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
                die( "Could not connect to database
</body></html>" );
            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database
</body></html>" );
            extract($_POST);
            // build the query to delete data into member table
            $query = "DELETE FROM member WHERE id='$member_id';";

            // execute the query
            if ( !( $result = mysqli_query($connection, $query) ) )
{
                echo "<p>Could not execute query!</p>" ;
                die(mysqli_error($connection) . "</body></html>" );
}
            // disconnect from the server
            mysqli_close( $connection );
        ?>

        <script>
            alert("Member Deleted Successfully!");
            window.location ='memberlist.php';
        </script>
    </body>
</html>
```

*/librarian/processEditbook.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            //connection
            $conn = new mysqli("localhost","root","","library");

            //check connection
            if ($conn->connect_error) {
                die("Connection failed: ".$conn->connect_error);
            }

            extract($_POST);

            //prepare and bind
            $stmt = $conn->prepare("UPDATE book SET name = ?, author
= ?, quantity = ? WHERE id=?;");
            $stmt->bind_param("ssis", $book_name, $author,
$quantity, $book_id);

            $stmt->execute();
            $result = $stmt->get_result();

            $stmt->close();
            $conn->close();
        ?>
        <script>
            alert("Book Edited Successfully!");
            window.location ='book.php?book_id=<?php echo
"$book_id"?>';
        </script>
    </body>
</html>
```

*/librarian/processEditmember.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            if($login_id == NULL){
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            //connection
            $conn = new mysqli("localhost","root","","library");

            //check connection
            if ($conn->connect_error){
                die("Connection failed: ".$conn->connect_error);
            }

            extract($_POST);

            //prepare and bind
            $stmt = $conn->prepare("UPDATE member SET name = ?, email = ?, phone = ? WHERE id=?;");
            $stmt->bind_param("ssss", $member_name, $email, $phone, $member_id);

            $stmt->execute();
            $result = $stmt->get_result();

            $stmt->close();
            $conn->close();

        ?>

        <script>
            alert("Member Edited Successfully!");
            window.location ='member.php?member_id=<?php echo
"$member_id"?>';
        </script>
    </body>
</html>
```

*/librarian/processProfile.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            //connection
            $conn = new mysqli("localhost","root","","library");

            //check connection
            if ($conn->connect_error) {
                die("Connection failed: ".$conn->connect_error);
            }

            extract($_POST);

            //prepare and bind
            $stmt = $conn->prepare("UPDATE librarian SET name = ?,
email = ?, phone = ? WHERE id=?;");
            $stmt->bind_param("ssss", $name, $email, $phone,
$librarian_id);

            $stmt->execute();
            $result = $stmt->get_result();

            $stmt->close();
            $conn->close();
        ?>

        <script>
            alert("Profile Updated Successfully!");
            window.location ='profile.php';
        </script>
    </body>
</html>
```

*/librarian/processReturn.php*

```
<!DOCTYPE html>
<html>
    <body>
        <?php
            session_start();
            $login_id = $_SESSION["id"];
            if($login_id == NULL) {
                header("Location: /library/"); /* Redirect browser */
                exit();
            }
            // connect the MySQL server
            if(!$connection = mysqli_connect("localhost", "root",
""))
                die( "Could not connect to database
</body></html>" );
        // access the database
        if ( !mysqli_select_db($connection, "library") )
            die( "Could not open library database
</body></html>" );
        extract($_POST);

        // build the query to insert data into member table
        $query = "UPDATE record SET return_date=CURRENT_DATE(),
        returned=1 WHERE id='$record_id';";

        // execute the query
        if ( !( $result = mysqli_query($connection, $query) ) )
{
            echo "<p>Could not execute query!</p>" ;
            die(mysqli_error($connection) . "</body></html>" );
}
        // disconnect from the server
        mysqli_close( $connection);
        ?>

        <script>
            alert("Book Returned Successfully!");
            window.location ='record.php?record_id=<?php echo
$record_id?>';
        </script>
    </body>
</html>
```

### */librarian/profile.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!--session_start()
//On page 1
$_SESSION['login_id'] = $login_id;

//On page 2
$login_id = $_SESSION['login_id'];
-->

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>
</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a class="active" href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Your Profile</h1>
    <br>

    <div class="box profilebox">
        <br>
        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
```

```

die( "Could not connect to database </body></html>" );

// access the database
if ( !mysqli_select_db($connection, "library") )
die( "Could not open library database </body></html>" );

$query = "SELECT * FROM librarian WHERE id = '$login_id';";

// execute the query
if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
}

// disconnect from the server
mysqli_close( $connection);

while ( $row = mysqli_fetch_row( $result ) )
{
    $librarian_id=$row[0];
    $password=$row[1];
    $name=$row[2];
    $email=$row[3];
    $phone=$row[4];
}

?>
<form method=post action=processProfile.php class="profile"
onsubmit="return confirm('Do you really want to change profile
information?')">
    <table>
        <tr><td class="field">&ampnbsp&ampnbspLibrarian ID:&ampnbsp</td>
        <td><input type="text" id="librarian_id"
name="librarian_id" value=<?php echo $librarian_id ?>"<br>
        readonly></td></tr>
        <tr><td class="field">&ampnbsp&ampnbspName:&ampnbsp</td>
        <td><input type="text" id="name" name="name" value=<?php
echo $name ?>" readonly required>
        <tr><td class="field">&ampnbsp&ampnbspEmail:&ampnbsp</td>
        <td><input type="text" id="email" name="email" value=<?php
echo $email ?>" readonly required>
        <tr><td class="field">&ampnbsp&ampnbspPhone Nmber:&ampnbsp</td>
        <td><input type="text" id="phone" name="phone" value=<?php
echo $phone ?>" readonly required>
    </table>
    <br>
    <button type="button" id="btn_editprofile"
onclick="editProfile()">Edit</button>
    <button type="submit" id="btn_saveprofile" style="display:
none;" value="Submit">Save</button>
    <button type="reset" id="btn_cancelprofile" style="display:
none;" onclick="cancelProfile()" value="Reset">Cancel</button>
</form>
</div>
</div>
</div>

```

```
<script>
    function editProfile() {
        document.getElementById("name").readOnly = false;
        document.getElementById("email").readOnly = false;
        document.getElementById("phone").readOnly = false;
        document.getElementById("btn_editprofile").style.display =
"none";
        document.getElementById("btn_saveprofile").style.display =
"inline";
        document.getElementById("btn_cancelprofile").style.display =
"inline";
    }
    function cancelProfile() {
        document.getElementById("name").readOnly = true;
        document.getElementById("email").readOnly = true;
        document.getElementById("phone").readOnly = true;
        document.getElementById("btn_editprofile").style.display =
"block";
        document.getElementById("btn_saveprofile").style.display =
"none";
        document.getElementById("btn_cancelprofile").style.display =
"none";
    }
</script>
</body>
</html>
```

### */librarian/record.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
$record_id=$_REQUEST['record_id'];
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>
<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a class="active" href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
    <a href="changepassword.php">Password</a>
    <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Record's Details</h1>
    <br>
    <div class="box bookdetailsbox">
        <br>

        <?php
            // connect the MySQL server
            if(!($connection = mysqli_connect("localhost", "root",
"")))
                die( "Could not connect to database </body></html>" );

            // access the database
            if ( !mysqli_select_db($connection, "library") )
                die( "Could not open library database </body></html>" );
        <?php
    </div>
</div>
</div>
```

```

$query = "SELECT record.id, record.book_id, book.name,
record.member_id, record.issue_date, record.return_date,
record.returned
FROM record
INNER JOIN book ON record.book_id=book.id
WHERE record.id='$_record_id';";

// execute the query
if ( !( $result = mysqli_query($connection, $query) ) )
{
    echo "<p>Could not execute query!</p>" ;
    die(mysqli_error($connection) . "</body></html>" );
}
// disconnect from the server
mysqli_close( $connection );

while ( $row = mysqli_fetch_row( $result ) )
{
    $record_id=$row[0];
    $book_id=$row[1];
    $book_name=$row[2];
    $member_id=$row[3];
    $issue_date=$row[4];
    $return_date=$row[5];
    $returned=$row[6];
}
?>
<form method=post action=processReturn.php
onload="checkReturned()" onsubmit="return confirm('Do you confirm
to return this book?')">
<table>
<tr><td class="field">&ampnbsp&ampnbspRecord ID:&ampnbsp</td>
    <td><input type="text" id="record_id" name="record_id"
value=<?php echo $record_id ?>" readonly>
        <tr><td class="field">&ampnbsp&ampnbspBook ID:&ampnbsp</td>
            <td><input type="text" id="book_id" name="book_id"
value=<?php echo $book_id ?>" readonly>
                <tr><td class="field">&ampnbsp&ampnbspBook Name:&ampnbsp</td>
                    <td><input type="text" id="book_name" name="book_name"
value=<?php echo $book_name ?>" readonly>
                <tr><td class="field">&ampnbsp&ampnbspMember ID:&ampnbsp</td>
                    <td><input type="text" id="member_id" name="member_id"
value=<?php echo $member_id ?>" readonly>
                    <tr><td class="field">&ampnbsp&ampnbspIssue Date:&ampnbsp</td>
                        <td><input type="text" id="issue_date" name="issue_date"
value=<?php echo $issue_date ?>" readonly>
                    <tr><td class="field">&ampnbsp&ampnbspReturn
Date:&ampnbsp</td>
                        <td><input type="text" id="return_date"
name="return_date" value=<?php echo $return_date ?>" readonly>
                        <tr><td class="field">&ampnbsp&ampnbspReturned:&ampnbsp</td>
                            <td><input type="text" id="returned" name="returned"
value=<?php if($returned==1){ echo "Yes";} else{ echo "No";} ?>" readonly>
</table>

```

```
<br>
<?php
    if($returned==0) {
        echo '<button type="submit"
id="btn_returnBook">Member returned this book</button>';
    }
?>

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

*/librarian/recordlist.php*

```
<?php
session_start();
$login_id = $_SESSION["id"];
if($login_id == NULL){
    header("Location: /library/"); /* Redirect browser */
    exit();
}
?>

<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<link rel="stylesheet" href="../homestyle.css">
<script src="../script.js"></script>

</head>
<body>

<div class="topbar">
    <a href="home.php">Library Management System</a>
</div>
<div class="sidebar">
    <a href="home.php">Home</a>
    <a href="profile.php">Profile</a>
    <a href="booklist.php">Books</a>
    <a href="addbook.php">Add Book</a>
    <a class="active" href="recordlist.php">Records</a>
    <a href="memberlist.php">Members</a>
    <a href="librarianlist.php">Librarians</a>
    <a href="addlibrarian.php">Add Librarian</a>
        <a href="changepassword.php">Password</a>
        <a onclick="confirmlogout()">Log out</a>
</div>
<div class="background-image">
<div class="content">
    <br>
    <h1>Issue Records List</h1>
    <br>

    <form class="search" method="post">
        <select id="searchop" name="search_option"
onchange="setPlaceholder()">
            <option value="book_name">Book Name</option>
            <option value="record_id">Record ID</option>
            <option value="book_id">Book ID</option>
            <option value="issue_date">Issue Date</option>
            <option value="return_date">Return Date</option>
        </select>
        <input type="text" id="searchbar" name="search_text"
placeholder="Search..">
        <input type="submit" name="submit" value="Search">
    </form>
</div>
</div>
```

```

<br><br>
</form>
<div class="box issuerecordbox">

<?php
    //connection
    $conn = new mysqli("localhost","root","","library");

    //check connection
    if ($conn->connect_error){
        die("Connection failed: ".$conn->connect_error);
    }

    //prepare and bind
    if(isset($_POST["submit"])){
        $search_option = $_POST["search_option"];
        $search_text = $_POST["search_text"];
        $search_text1 = $search_text.'%';
        $search_text2 = '%'.$search_text.'%';
        $search_text3 = '%'.$search_text;

        if
        ($search_option=="issue_date"||$search_option=="return_date"){
            if ($search_option=="issue_date"){
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.member_id, record.issue_date,
record.return_date, record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    AND issue_date = ?;");
            }else{
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.member_id, record.issue_date,
record.return_date, record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    AND return_date = ?;");
            }
            $stmt->bind_param("s", $search_text);
        }else{
            if($search_option=="book_name"){
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.member_id, record.issue_date,
record.return_date, record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    AND (book.name LIKE ?
                    OR book.name LIKE ?
                    OR book.name LIKE ?);");
            }else if ($search_option=="record_id"){
                $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.member_id, record.issue_date,
record.return_date, record.returned
                    FROM record
                    INNER JOIN book ON record.book_id=book.id
                    AND (record.id LIKE ?

```

```

        OR record.id LIKE ?
        OR record.id LIKE ?);");
}else if ($search_option=="book_id"){
    $stmt = $conn->prepare("SELECT record.id,
record.book_id, book.name, record.member_id, record.issue_date,
record.return_date, record.returned
        FROM record
        INNER JOIN book ON record.book_id=book.id
        AND (book.id LIKE ?
        OR book.id LIKE ?
        OR book.id LIKE ?);");
}
$stmt->bind_param("sss", $search_text1, $search_text2,
$search_text3);
}

}else{
    $stmt = $conn->prepare("SELECT record.id, record.book_id,
book.name, record.member_id, record.issue_date,
record.return_date, record.returned
        FROM record
        INNER JOIN book ON record.book_id=book.id
        ORDER BY ID DESC;");

}

$stmt->execute();
$result = $stmt->get_result();

$stmt->close();
$conn->close();

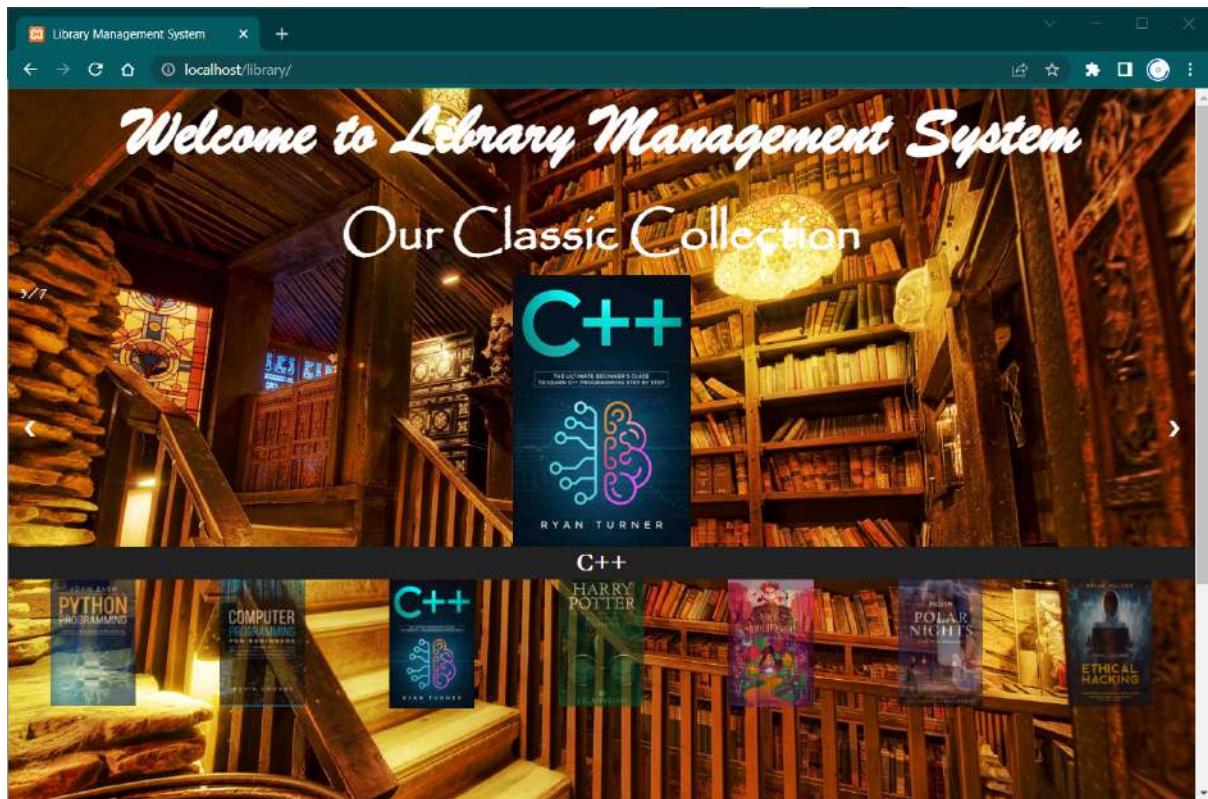
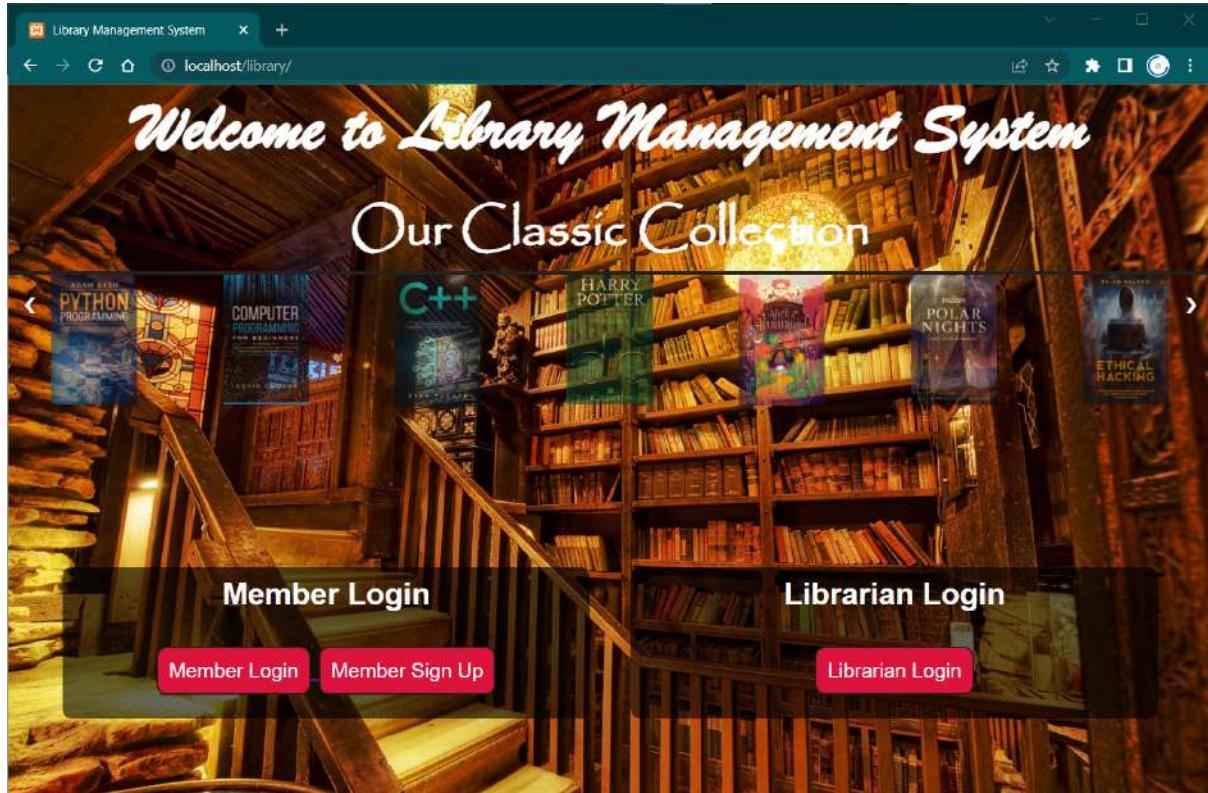
if (mysqli_num_rows($result)==0) {
    echo "Sorry, no record found.";
}else{
    echo "<table class = 'recordlist'>";
    echo "<tr>
        <th>&nbsp;Record ID&nbsp;</th>
        <th>&nbsp;Book ID&nbsp;</th>
        <th>&nbsp;Book Name&nbsp;</th>
        <th>&nbsp;Member ID&nbsp;</th>
        <th>&nbsp;Issue date&nbsp;</th>
        <th>&nbsp;Return date&nbsp;</th>
        <th>&nbsp;Returned&nbsp;</th>
        <th></th>
    </tr>";
    while ( $row = $result->fetch_array(MYSQLI_NUM) )
    {
        echo "
        <tr>
            <td><a
href='record.php?record_id=$row[0]'>$row[0]</a></td>
            <td><a href='book.php?book_id=$row[1]'>$row[1]</a></td>
            <td>$row[2]</td>
            <td><a
href='member.php?member_id=$row[3]'>$row[3]</a></td>
            <td>$row[4]</td>

```

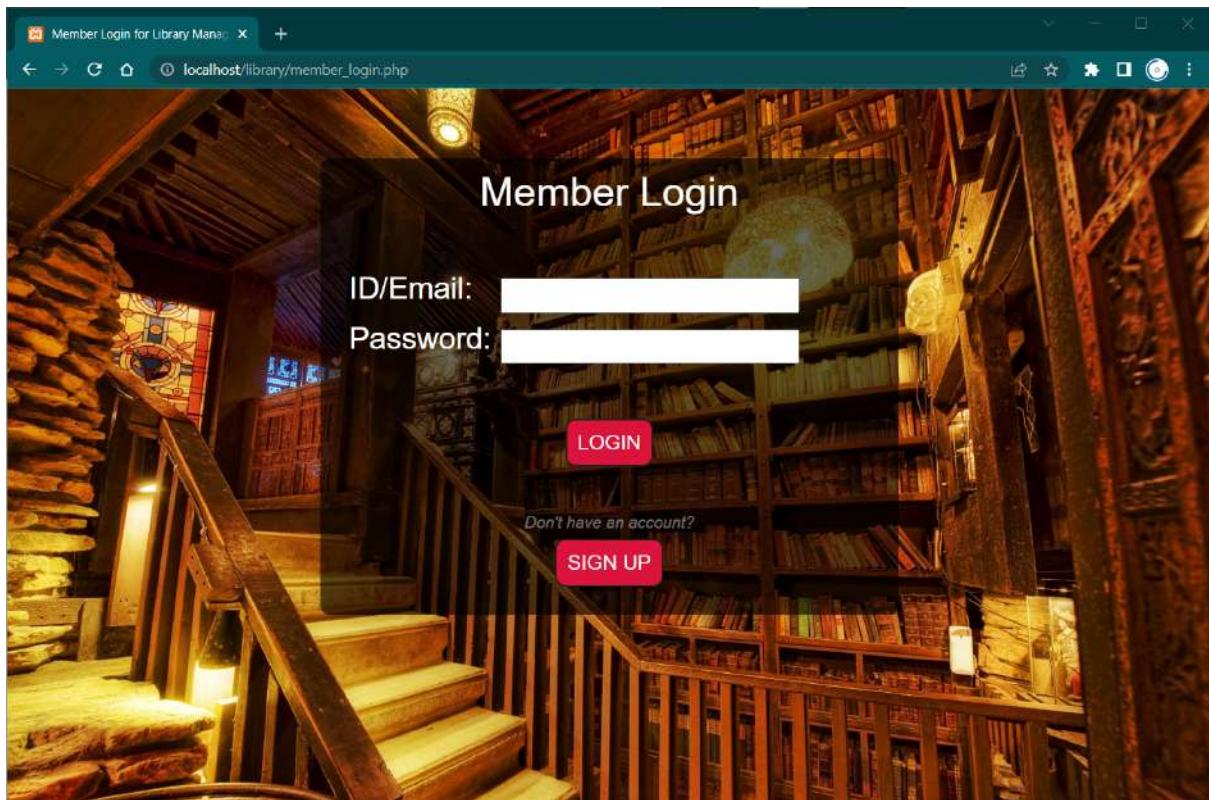
```
<td>$row[5]</td>
<td>";
if ($row[6]==1) {
    echo "Yes";
} else{
    echo "No";
}
echo "</td>
</tr>
";
}
echo "</table>";
}
?>
</div>
</div>
</div>
</body>
</html>
```

## 6.2 Sample interface screen

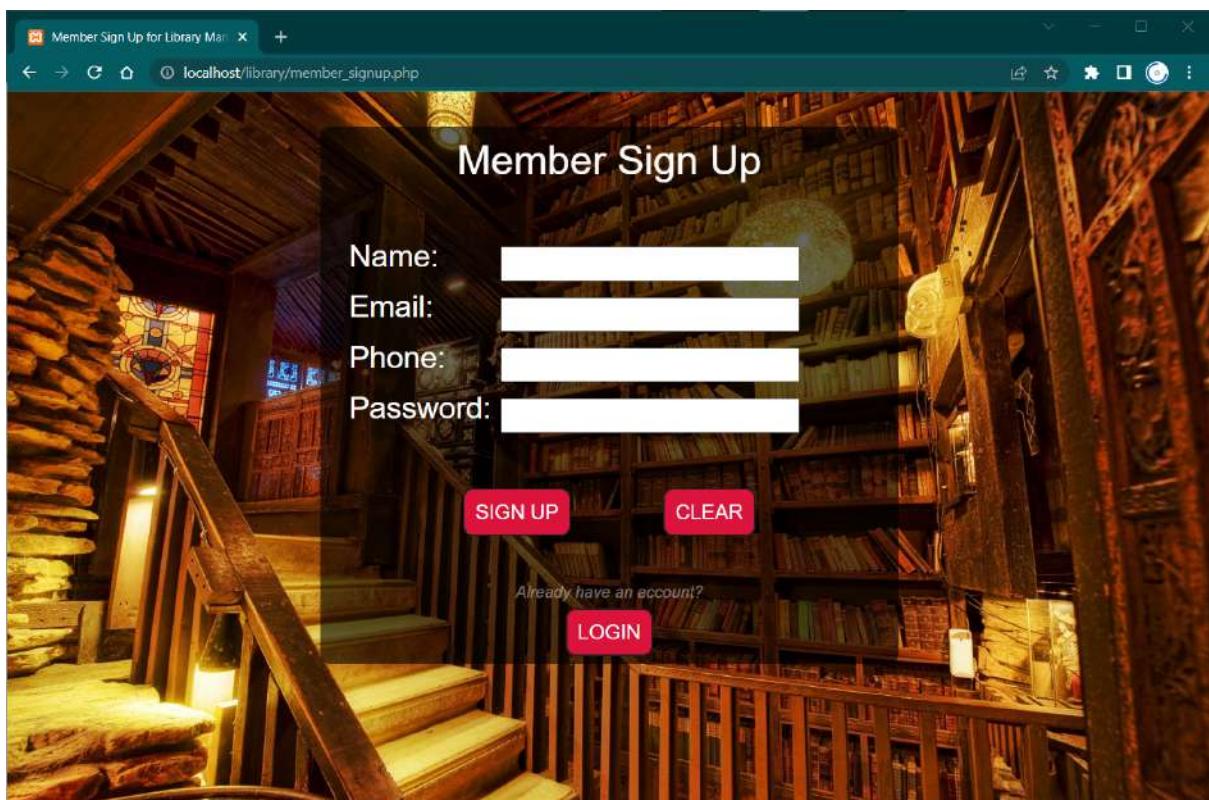
Introduction page:



Member login page:



Member sign up page:



Member's home page:

The screenshot shows a web browser window for a Library Management System. The URL is `localhost/library/member/`. The page has a dark background with a library interior image. A yellow sidebar on the left lists navigation options: Home, Profile, Books, Records, Password, and Log out. The 'Home' option is highlighted. The main content area features a message 'Dear Member, take a look on' and a title 'Our New Arrived Books'. Below this is a table listing five new books:

Book ID	Book Name	Author	Quantity
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	2

Member's profile:

The screenshot shows a web browser window for a Library Management System. The URL is `localhost/library/member/profile.php`. The page has a dark background with a library interior image. A yellow sidebar on the left lists navigation options: Home, Profile, Books, Records, Password, and Log out. The 'Profile' option is highlighted. The main content area features a title 'Your Profile' and a form for editing member details:

Member ID:	M00001
Name:	Donald Trump
Email:	donald@gmail.com
Phone Number:	011122333

A red 'Edit' button is located below the form.

Books available:

The screenshot shows a web browser window titled "localhost/library/member/booklist.php". The left sidebar has a yellow-highlighted "Books" menu item. The main content area features a banner with the text "List of Books Available" over a background image of a library. Below the banner is a search bar with dropdown menus for "Book Name" and "Search..", and a red "Search" button. A table lists books with columns: Book ID, Book Name, Author, and Quantity. The data is as follows:

Book ID	Book Name	Author	Quantity
B00001	C++ For Dummies	Stephen R. Davis	1
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	2
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Selected book: Members can issue the book if the quantity is not zero.

The screenshot shows a web browser window titled "localhost/library/member/book.php?book\_id=B00001". The left sidebar has a yellow-highlighted "Books" menu item. The main content area features a banner with the text "Book's Details" over a background image of a library. Below the banner is a form with fields for Book ID, Book Name, Author, and Quantity. The values are: Book ID: B00001, Book Name: C++ For Dummies, Author: Stephen R. Davis, and Quantity: 1. A red "Issue this book" button is visible. The background image shows a wooden staircase and bookshelves.

Member's issue records: Member will see their issue records

The screenshot shows a web browser window titled "localhost/library/member/record" with the URL "localhost/library/member/recordlist.php". The page is titled "Your Issue Records" and features a search bar with "Book Name" dropdown and "Search.." button. A sidebar on the left includes links for Home, Profile, Books, Records (which is selected), Password, and Log out. The main content area displays a table of issue records:

Record ID	Book ID	Book Name	Issue date	Return date	Returned
R00010	B00001	C++ For Dummies	2022-04-08	2022-04-08	Yes
R00009	B00001	C++ For Dummies	2022-04-08	2022-04-08	Yes
R00008	B00001	C++ For Dummies	2022-04-08	2022-04-08	Yes
R00007	B00002	Harry Potter and the Philosopher's Stone	2022-04-07	2022-04-08	Yes
R00006	B00001	C++ For Dummies	2022-04-07	2022-04-12	No
R00005	B00002	Harry Potter and the Philosopher's Stone	2022-04-07	2022-04-07	Yes
R00004	B00001	C++ For Dummies	2022-04-07	2022-04-07	Yes
R00003	B00002	Harry Potter and the Philosopher's Stone	2022-04-07	2022-04-12	No
R00002	B00001	C++ For Dummies	2022-04-07	2022-04-07	Yes
R00001	B00001	C++ For Dummies	2022-04-07	2022-04-10	No

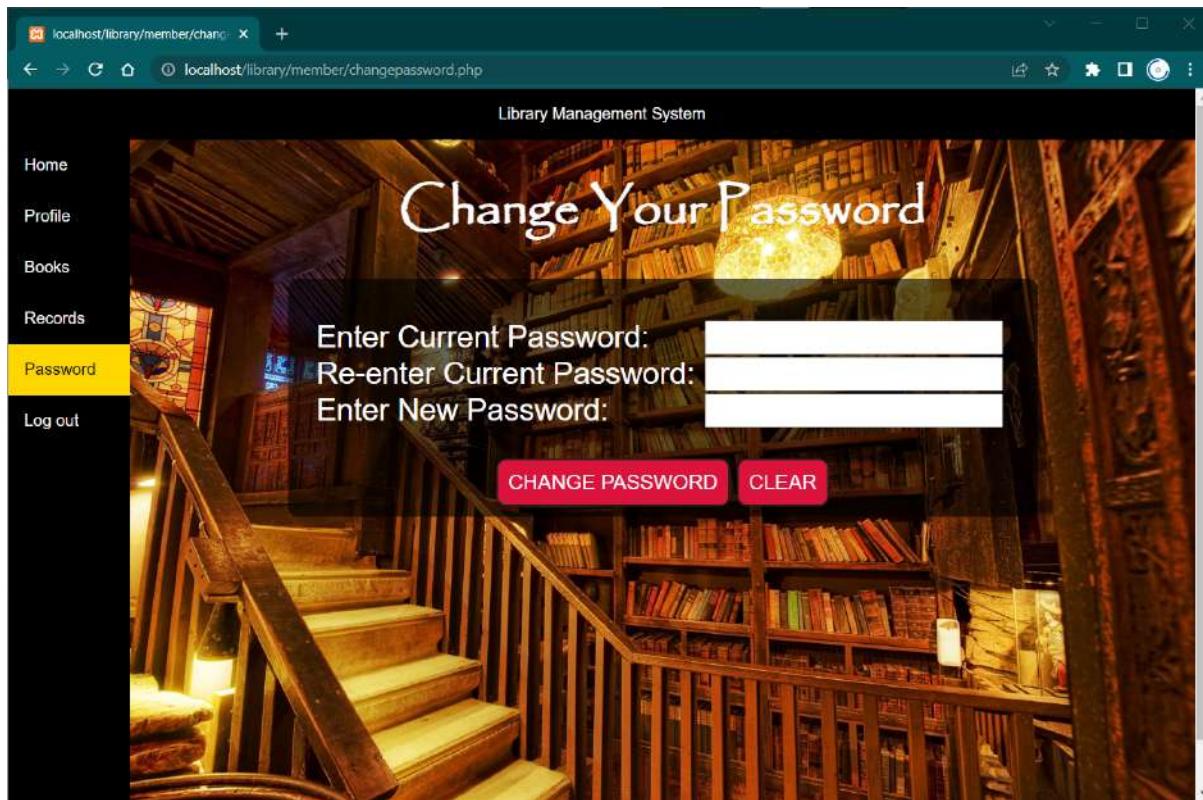
Selected issue record: Member can return the book that has not been returned yet.

The screenshot shows a web browser window titled "localhost/library/member/record" with the URL "localhost/library/member/record.php?record\_id=R00006". The page is titled "Record's Details" and features a sidebar with links for Home, Profile, Books, Records (selected), Password, and Log out. The main content area displays the details of the selected record:

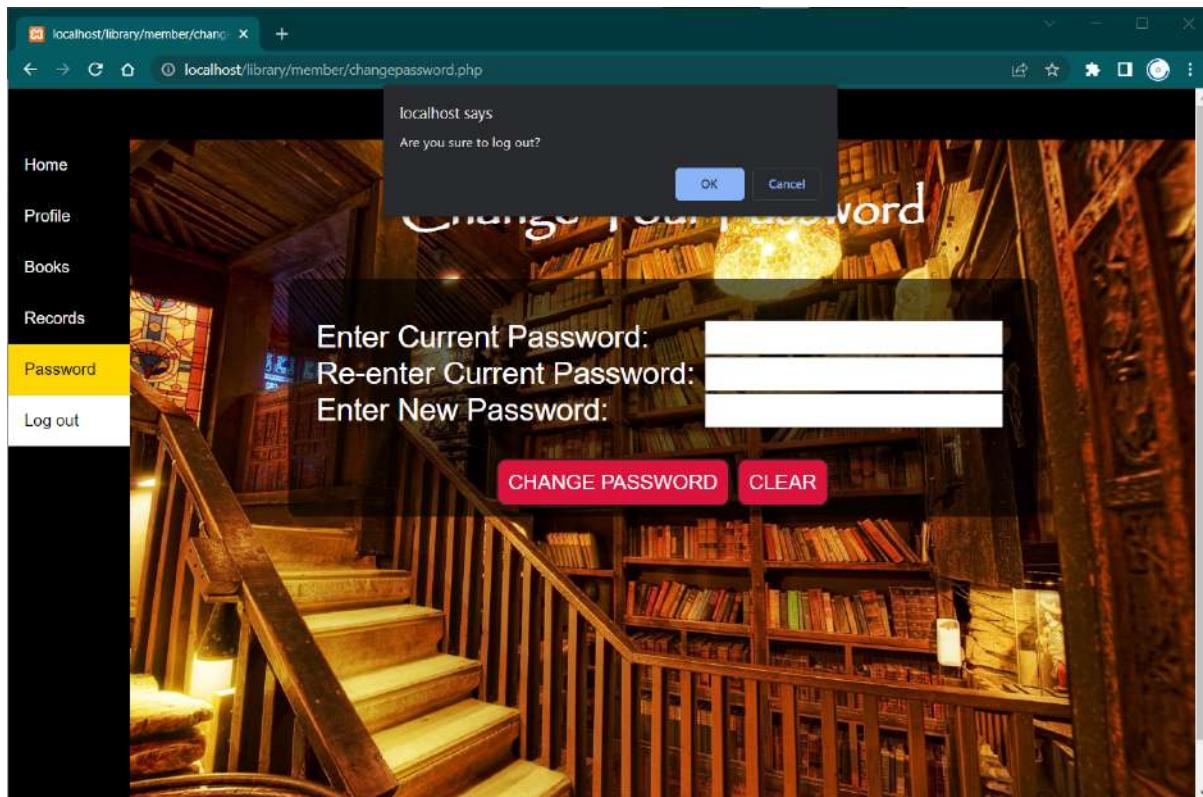
Record ID:	R00006
Book ID:	B00001
Book Name:	C++ For Dummies
Issue Date:	2022-04-07
Return Date:	2022-04-12
Returned:	No

A "Return this book" button is visible at the bottom right of the form area.

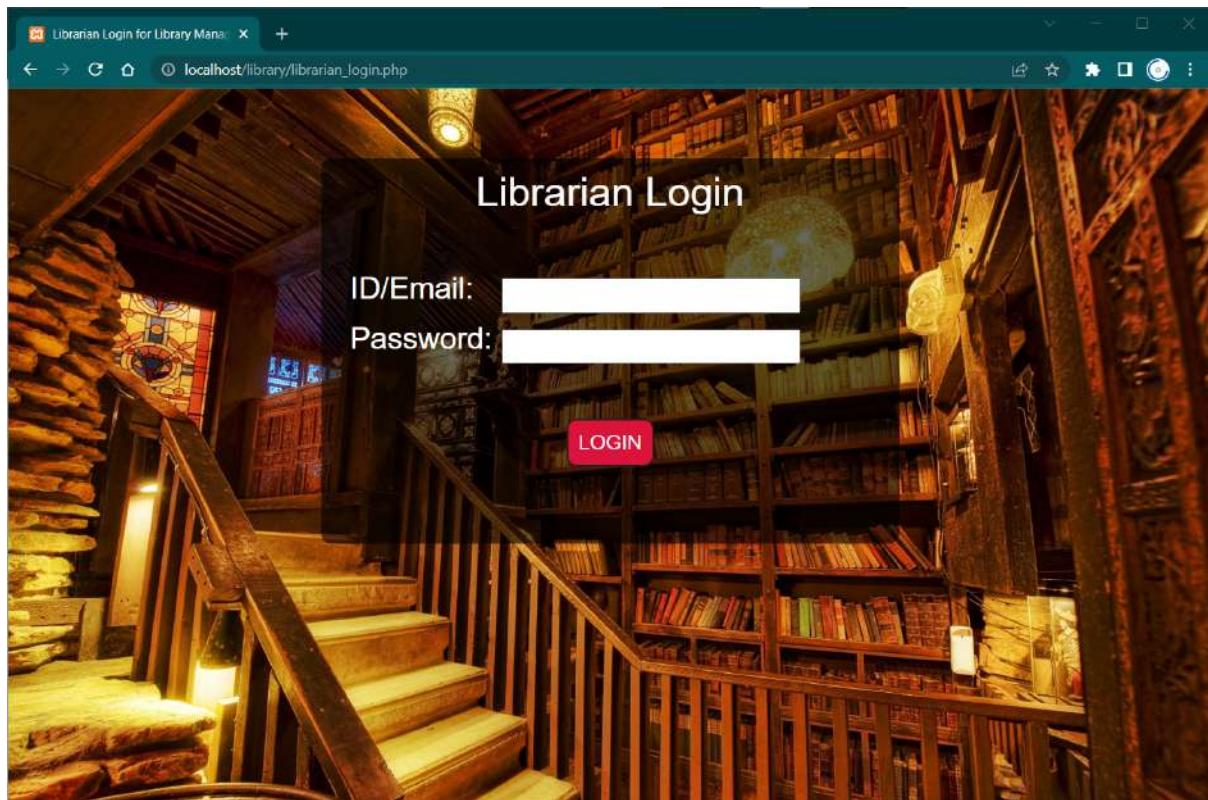
Change password:



Member's log out:



Librarian login page:

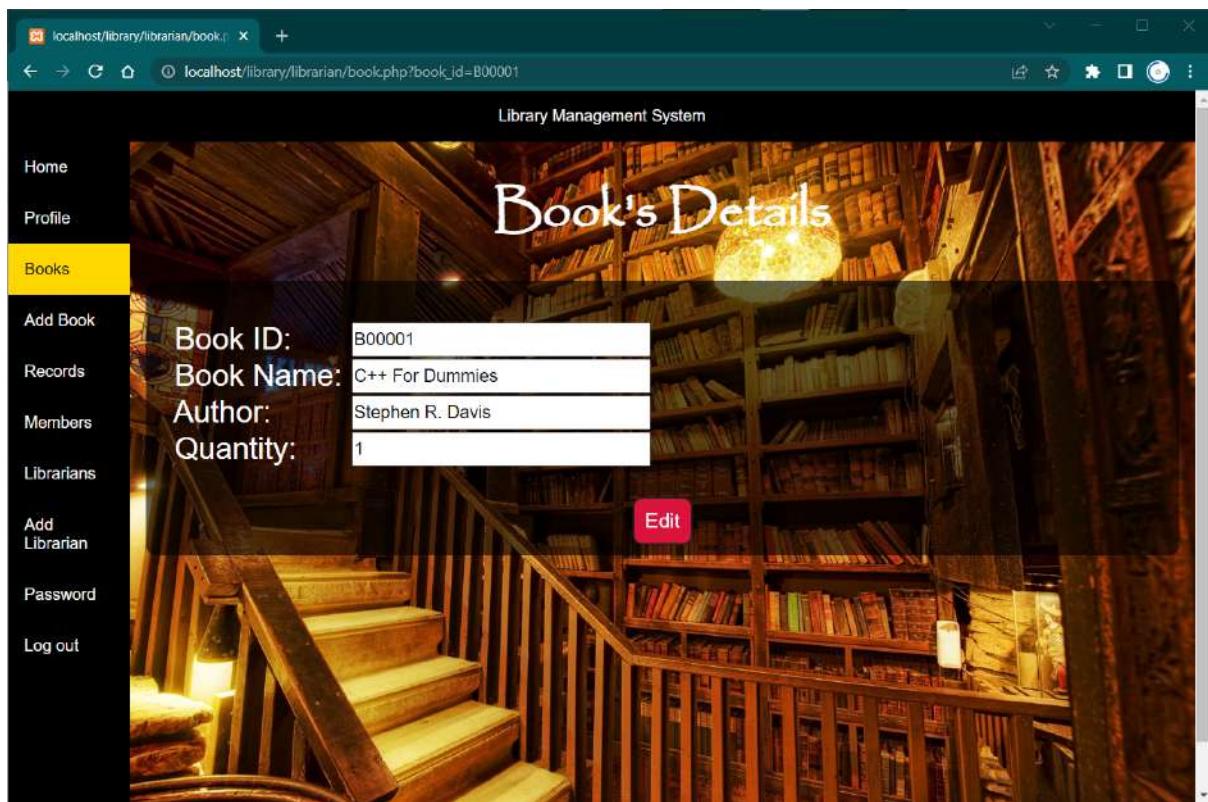


Librarian's home page:

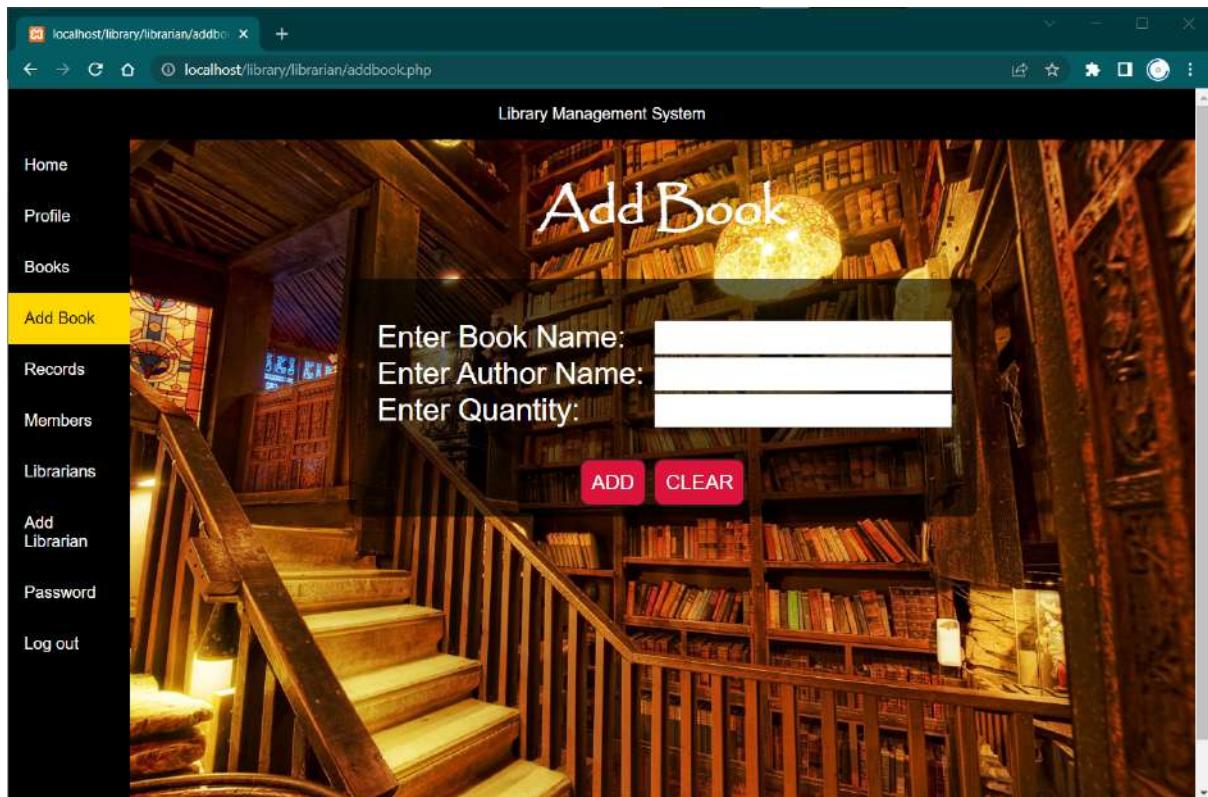
The screenshot shows a web browser window titled "localhost/library/librarian/". The URL in the address bar is "localhost/library/librarian/". The title bar also displays "Library Management System". The left sidebar contains a navigation menu with the following items: Home (highlighted in yellow), Profile, Books, Add Book, Records, Members, Librarians, Add Librarian, Password, and Log out. The main content area features a large title "Our New Arrived Books!" over a background image of a library. Below this, a table lists five new arrivals. The table has columns for Book ID, Book Name, Author, and Quantity.

Book ID	Book Name	Author	Quantity
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	2

Librarian's selected book: librarian can edit the book's details.



Librarian's add book: librarians can add new books into the library.



Librarian's issue record list: Librarian can see all issue records

The screenshot shows a web browser window titled "localhost/library/librarian/record" with the URL "localhost/library/librarian/recordlist.php". The page is titled "Issue Records List" and features a search bar with dropdown menus for "Book Name" and "Search..", and a red "Search" button. On the left, a sidebar menu lists various options: Home, Profile, Books, Add Book, Records (which is selected and highlighted in yellow), Members, Librarians, Add Librarian, Password, and Log out. The main content area displays a table of issue records:

Record ID	Book ID	Book Name	Member ID	Issue date	Return date	Returned
R00010	B00001	C++ For Dummies	M00001	2022-04-08	2022-04-08	Yes
R00009	B00001	C++ For Dummies	M00001	2022-04-08	2022-04-08	Yes
R00008	B00001	C++ For Dummies	M00001	2022-04-08	2022-04-08	Yes
R00007	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-08	Yes
R00006	B00001	C++ For Dummies	M00001	2022-04-07	2022-04-12	No
R00005	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-07	Yes

Librarian's selected records: Librarian can help members to return the book.

The screenshot shows a web browser window titled "localhost/library/librarian/record" with the URL "localhost/library/librarian/record.php?record\_id=R00006". The page is titled "Record's Details" and features a background image of a library interior. On the left, a sidebar menu lists the same options as the previous screenshot. The main content area displays a form with the following data:

Record ID:	R00006
Book ID:	B00001
Book Name:	C++ For Dummies
Member ID:	M00001
Issue Date:	2022-04-07
Return Date:	2022-04-12
Returned:	No

A message bubble at the bottom right of the form says "Member returned this book".

## Librarian's member list

The screenshot shows a web browser window for the 'Library Management System'. The URL is `localhost/library/librarian/memberlist.php`. The left sidebar has a yellow-highlighted 'Members' option. The main content area has a background image of a library with wooden stairs and bookshelves. A search bar at the top includes dropdowns for 'Member Name' and 'Search..', and a red 'Search' button. Below the search bar is a table with columns: Member ID, Member Name, Email, and Phone. One row is shown: M00001, Donald Trump, donald@gmail.com, 011122333.

Librarian's selected member: Librarian can edit information of members.

The screenshot shows a web browser window for the 'Library Management System'. The URL is `localhost/library/librarian/member.php?member_id=M00001`. The left sidebar has a yellow-highlighted 'Members' option. The main content area has a background image of a library. It displays the member details for M00001: Member ID: M00001, Member Name: Donald Trump, Email: donald@gmail.com, and Phone: 011122333. An 'Edit' button is located to the right of the details. The sidebar also includes options for Home, Profile, Books, Add Book, Records, Librarians, Add Librarian, Password, and Log out.

Librarian's librarian list:

Library Management System

Librarian List

Librarian ID	Librarian Name	Email	Phone
L00001	Theng Yuan Yuan	1191100477@student.mmu.edu.my	01115050811
L00002	Tan Zhi Yee	zyyyds@gmail.com	01112223
L00006	Librarian xx	xx@gmail.com	888888

Librarian Name  Search..

Home Profile Books Add Book Records Members Librarians Add Librarian Password Log out

Librarian's selected librarian page: Librarian cannot edit any information of any librarian.

Library Management System

Librarian's Details

Librarian ID:	L00001
Librarian Name:	Theng Yuan Yuan
Email:	1191100477@student.mmu.edu.my
Phone:	01115050811

Librarian ID: L00001  
Librarian Name: Theng Yuan Yuan  
Email: 1191100477@student.mmu.edu.my  
Phone: 01115050811

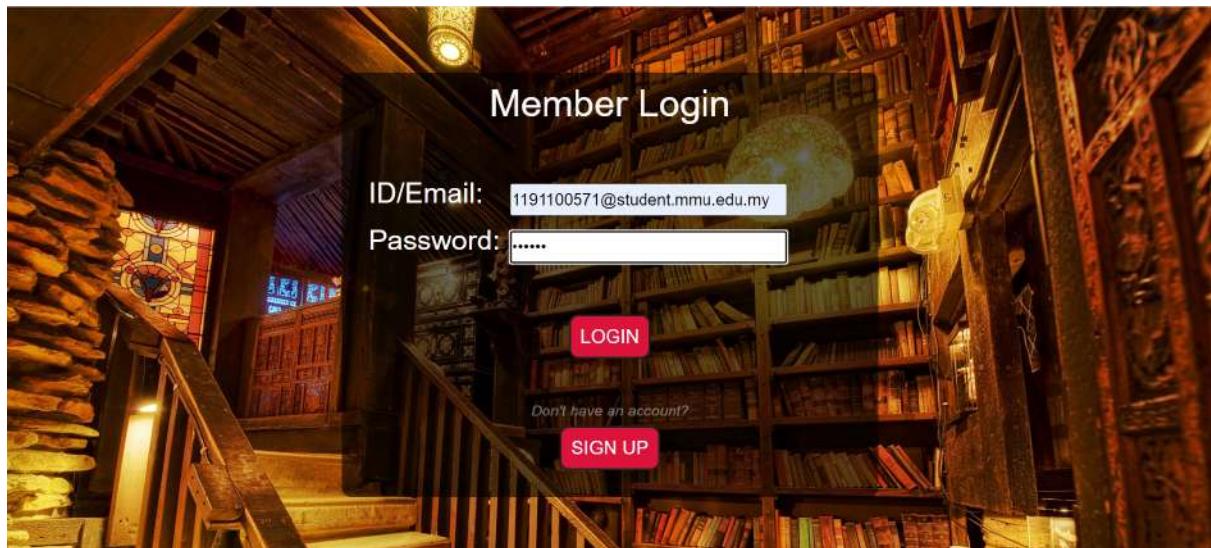
Home Profile Books Add Book Records Members Librarians Add Librarian Password Log out

Librarian's add librarian page:

The screenshot shows a web application for a Library Management System. The main content area displays a form titled "Add Librarian" with three input fields: "Enter Librarian Name:", "Enter Email:", and "Enter Phone number:". Below these fields are two buttons: "ADD" and "CLEAR". The background of the form is dark, making the white text and input fields stand out. The entire interface is set against a photograph of a traditional library interior, featuring wooden bookshelves filled with books and a wooden staircase. On the left side of the screen, there is a vertical sidebar with a black background containing a list of navigation links: Home, Profile, Books, Add Book, Records, Members, Librarians, Add Librarian, Password, and Log out. The "Librarians" and "Add Librarian" links are highlighted with a yellow background, indicating they are the current active pages.

### 6.3 Sample input/output screens

Input: Login as a member with correct email and password

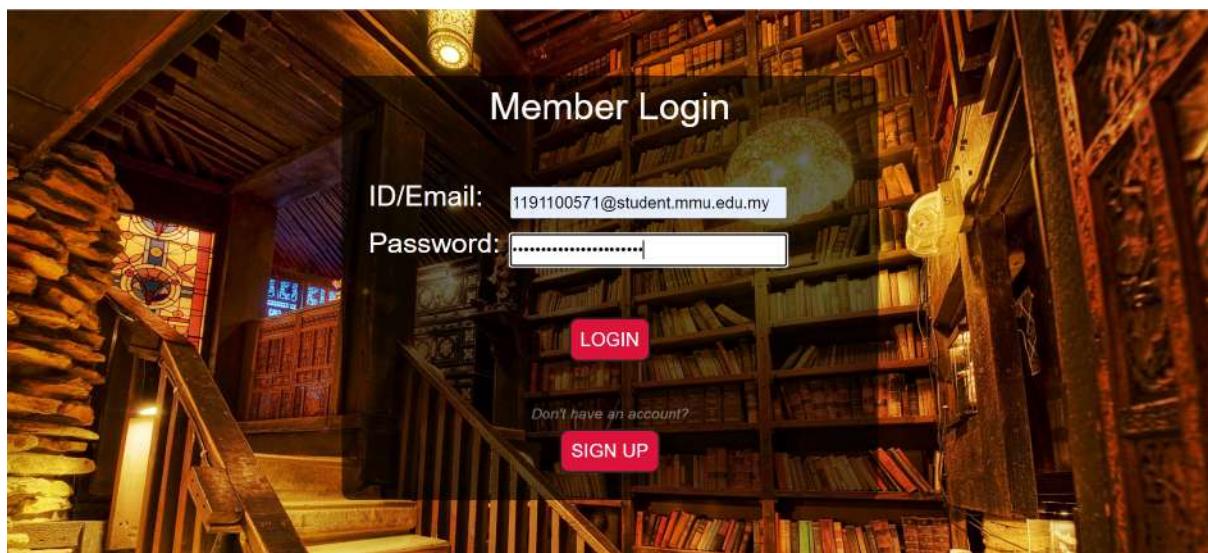


Output: Successfully login into the member's homepage

A screenshot of the member's homepage from a "Library Management System". The page has a dark theme with a yellow header bar containing navigation links: "Home", "Profile", "Books", "Records", "Password", and "Log out". The main content area features a banner with the text "Dear Member, take a look on Our New Arrived Books" over a background image of a library. Below the banner is a table listing new arrivals. The table has columns for Book ID, Book Name, Author, and Quantity. The data is as follows:

Book ID	Book Name	Author	Quantity
B00009	Harry Potter and the Cursed Child - Parts One and Two	J.K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J.K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J.K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J.K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J.K. Rowling	3

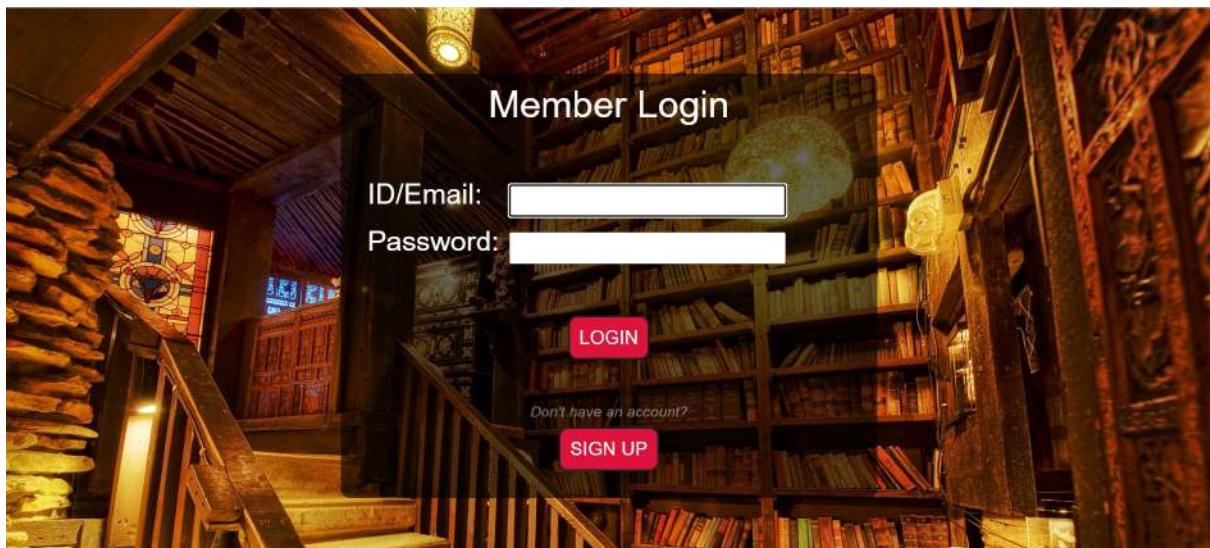
Input: Login as a member with incorrect email or password



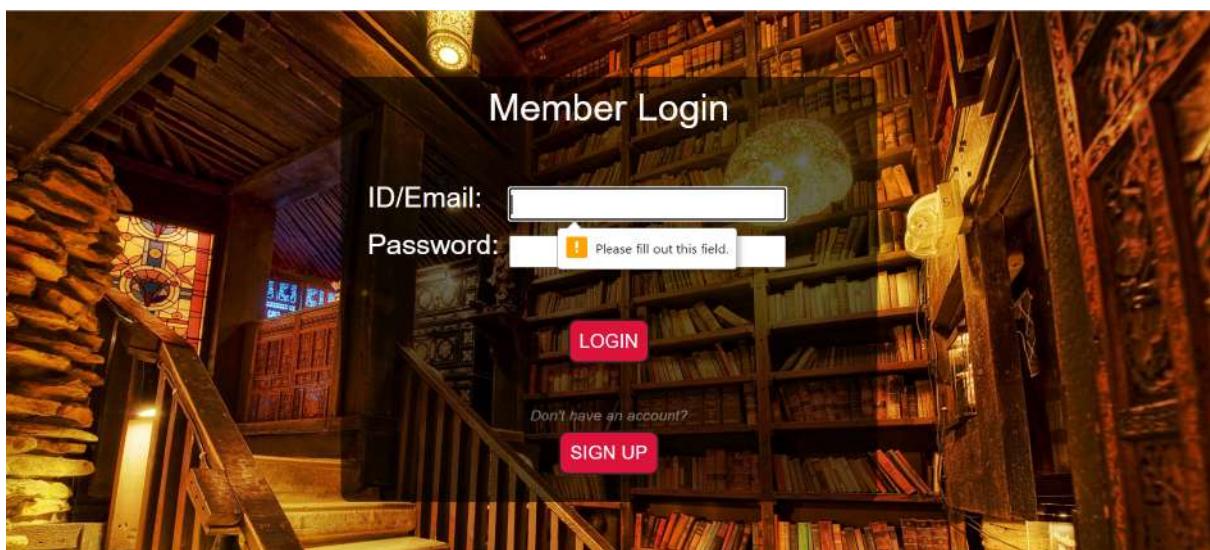
Output: The system will pop up an alert box and say “Invalid Member ID/Email/Password”



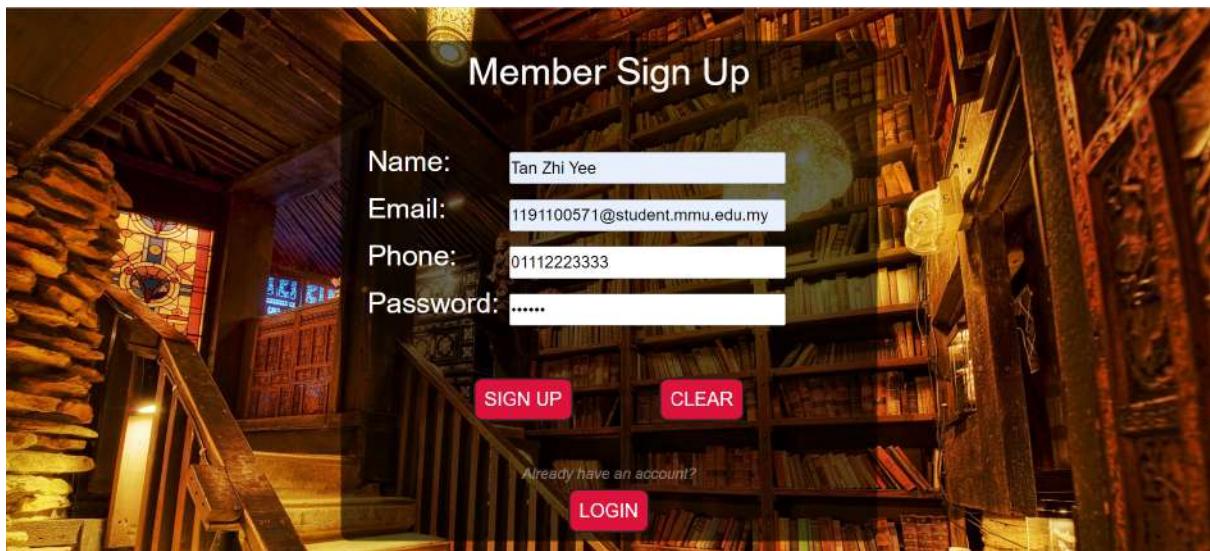
Input: Leave the field in blank



Output: System will show a message which is “Please fill out this field.”



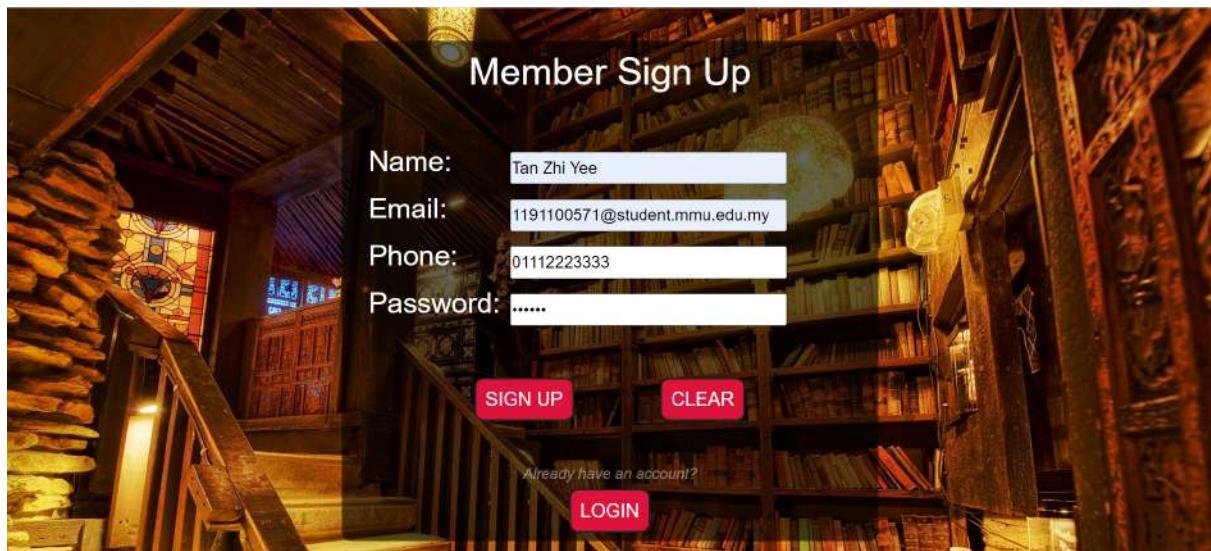
Input: Sign up as a new member with the email that did not exist in the database



Output: System will show “Sign Up Successful!” and user can click on the button below which is “Login Here” to process to the login page



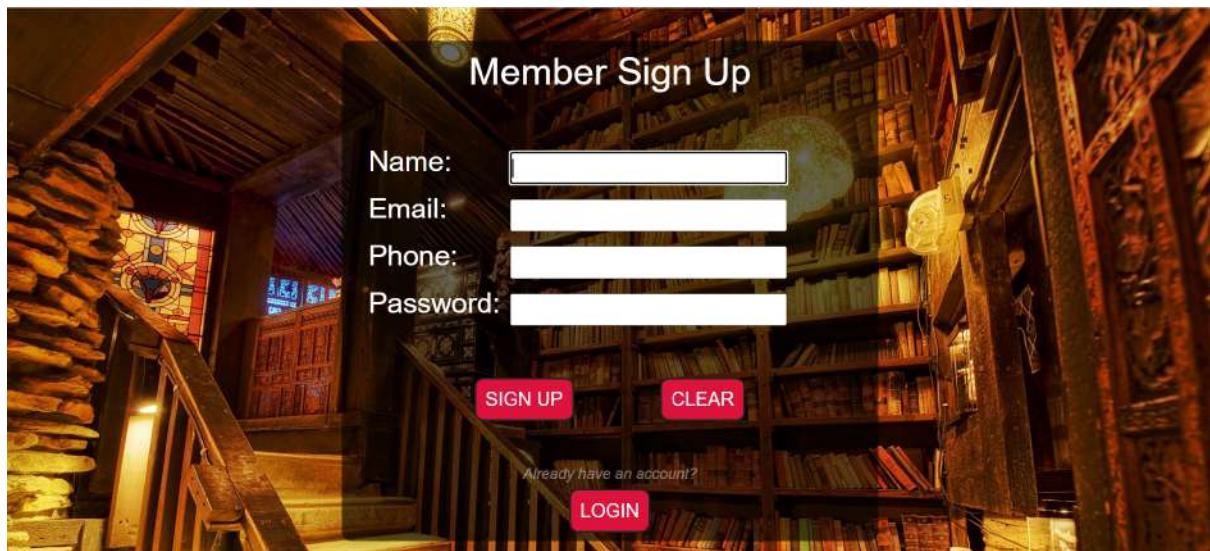
Input: Sign up as a new member with the email that already exist in the database



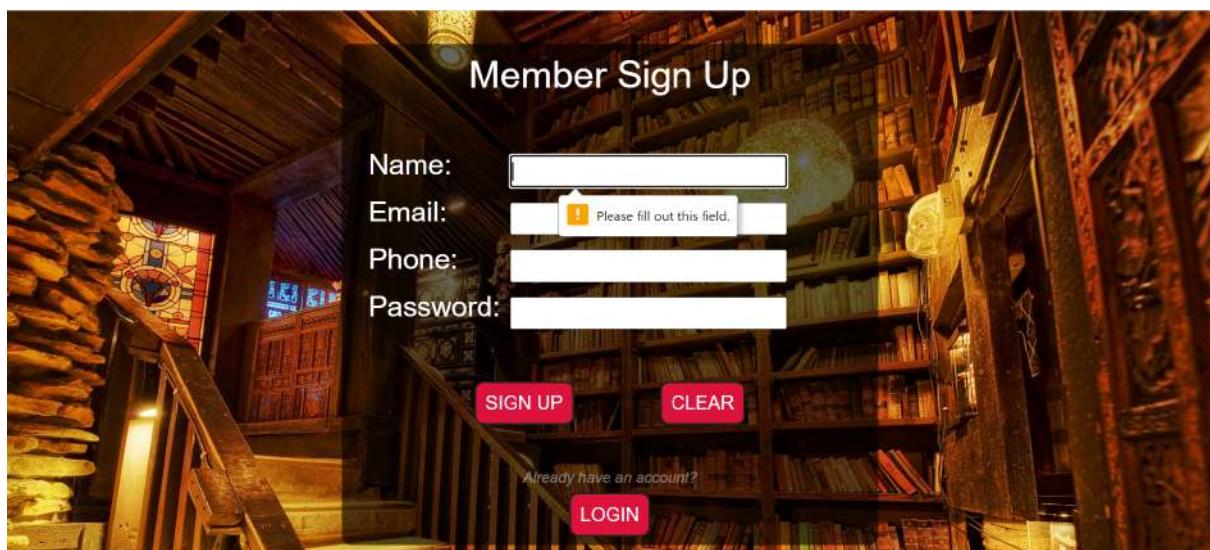
Output: The system will pop up an alert box and say “Email Already Exists, please use another email address or LOGIN your account.”



Input: Leave the field in blank



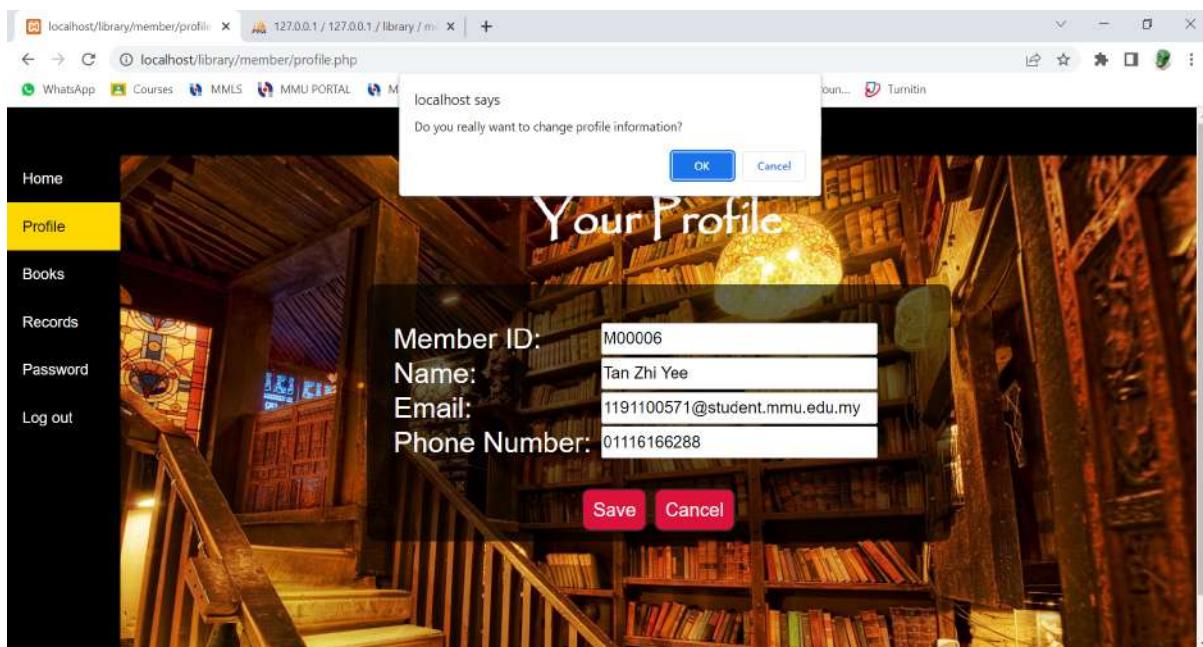
Output: System will show a message which is “Please fill out this field.”



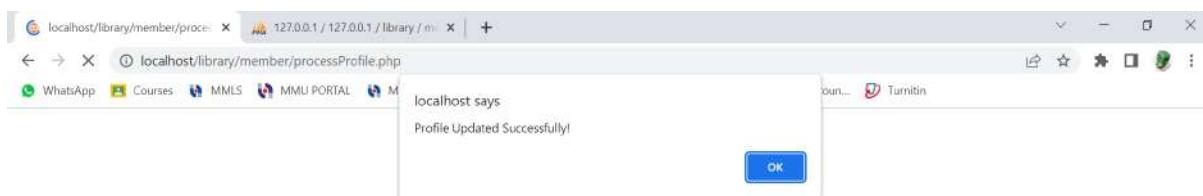
Input: Edit the profile with change the phone number



Output: The system will pop up an alert box and say “Do you really want to change profile information?”



And if the user clicks on “OK”, the system will pop up an alert box and say “Profile Updated Successfully!”



Input: Leave the field in blank



Output: System will show a message which is “Please fill out this field.”



Input: Search the book by the Book Name and enter a keyword in the search bar

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Book ID	Book Name	Author	Quantity
B00001	C++ For Dummies	Stephen R. Davis	2
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Output: The system will according to the keyword to display the result

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Book ID	Book Name	Author	Quantity
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Input: Search the book by the Book ID and enter a keyword in the search bar

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book ID

Book ID	Book Name	Author	Quantity
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Output: The system will according to the keyword to display the result

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Book ID	Book Name	Author	Quantity
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3

Input: Search the book by the Author and enter a keyword in the search bar

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Author

Book ID	Book Name	Author	Quantity
B00001	C++ For Dummies	Stephen R. Davis	2
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Output: The system will according to the keyword to display the result

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Book ID	Book Name	Author	Quantity
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Input: Search the book by the Quantity and enter a keyword in the search bar

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Quantity

Book ID	Book Name	Author	Quantity
B00001	C++ For Dummies	Stephen R. Davis	2
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Output: The system will according to the keyword to display the result

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Book ID	Book Name	Author	Quantity
B00001	C++ For Dummies	Stephen R. Davis	2

Input: Search the book by enter a keyword in the search bar which the system can not match

Library Management System

Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Book ID	Book Name	Author	Quantity
B00001	C++ For Dummies	Stephen R. Davis	2
B00002	Harry Potter and the Philosopher's Stone	J. K. Rowling	3
B00003	Harry Potter and the Chamber of Secrets	J. K. Rowling	3
B00004	Harry Potter and the Prisoner of Azkaban	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3

Output: The system will show “Sorry, no book found.”

Library Management System

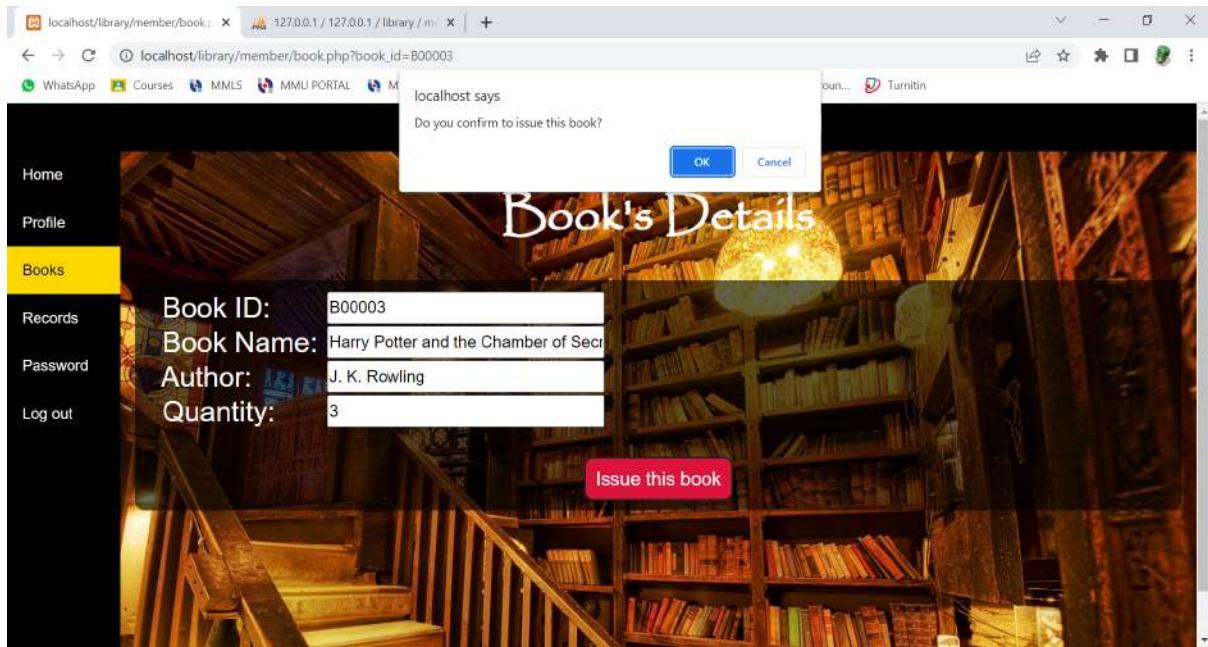
Home  
Profile  
**Books**  
Records  
Password  
Log out

## List of Books Available

Book Name

Sorry, no book found.

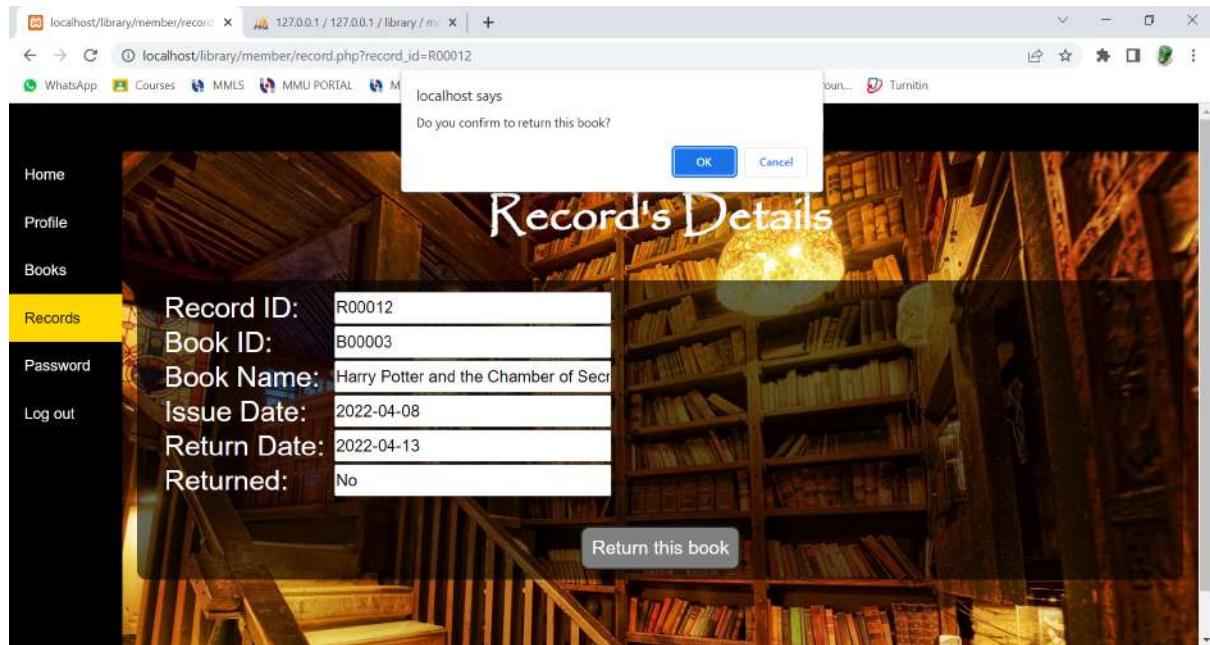
Input: Issue the book by clicking on the “Issue this book” button. After that, the system will pop up an alert box and say “Do you confirm to issue this book?”.



Output: If the user clicks on the “OK”, the system will pop up an alert box and say “Book Issued Successfully!”.



Input: Return the issued book by clicking on the “Return this book” button. After that, the system will pop up an alert box and say “Do you confirm to return this book?”.



Output: If the user clicks on the “OK”, the system will pop up an alert box and say “Book Returned Successfully!”.



Input: Changing password by enter the correct current password and a different new password



Output: The system will pop up an alert box and say “Password changed successfully.”.



Input: Changing password by enter the incorrect current password and a different new password



Output: The system will pop up an alert box and say “You have entered wrong password.”



Input: Changing password by enter the correct current password and a same new password with the current password



Output: The system will pop up an alert box and say “The new password and current password cannot be the same.”



Input: Leave the field in blank

Library Management System

Change Your Password

Enter Current Password:

Re-enter Current Password:

Enter New Password:

CHANGE PASSWORD CLEAR

Output: System will show a message which is “Please fill out this field.”

Library Management System

Change Your Password

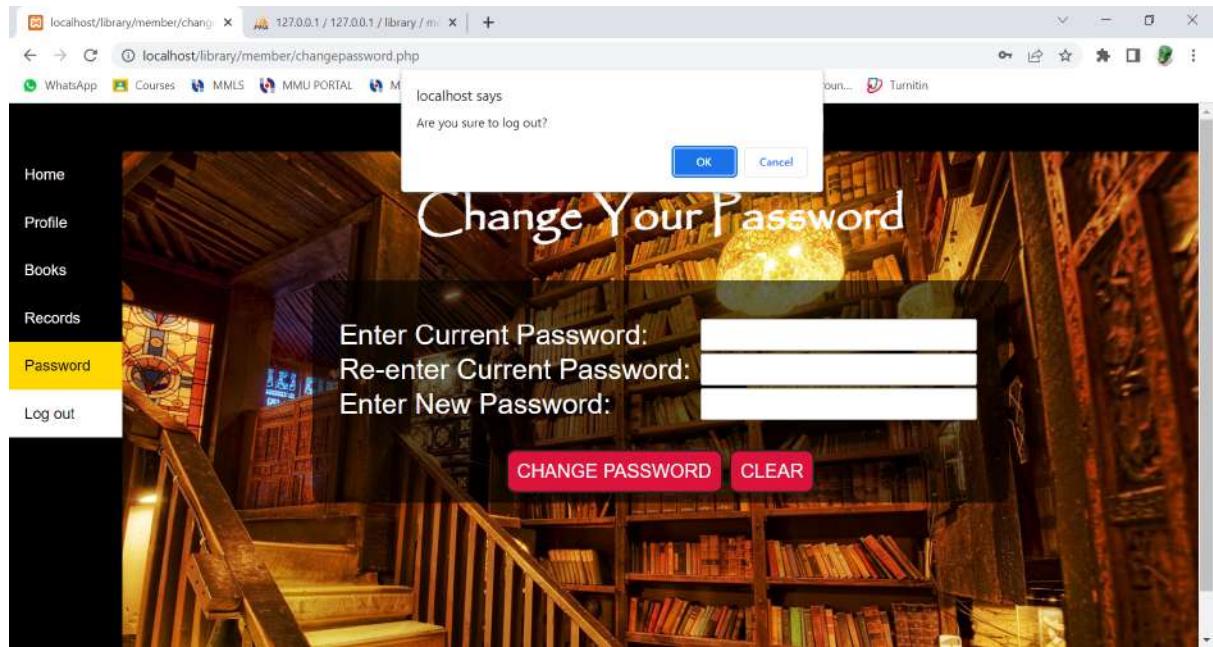
Enter Current Password:

Re-enter Current Password:  ! Please fill out this field.

Enter New Password:

CHANGE PASSWORD CLEAR

Input: Click on the “Log out” tab. After that, the system will pop up an alert box and say “Are you sure to log out?”



Output: If the user clicks “OK”, the system will log the user out and pop up an alert box and say “You have logged out.”



Input: Login as librarian with correct ID and password



Output: Successfully login into the librarian's homepage

A screenshot of the librarian's homepage. The header reads "Library Management System". On the left is a vertical navigation menu with options: Home (highlighted in yellow), Profile, Books, Add Book, Records, Members, Librarians, Add Librarian, Password, and Log out. The main content area has a title "Our New Arrived Books" over a background image of a library. Below the title is a table showing five new arrivals. The table has columns: Book ID, Book Name, Author, and Quantity. The data is as follows:

Book ID	Book Name	Author	Quantity
B00009	Harry Potter and the Cursed Child - Parts One and Two	J. K. Rowling	3
B00008	Harry Potter and the Deathly Hallows	J. K. Rowling	3
B00007	Harry Potter and the Half-Blood Prince	J. K. Rowling	3
B00006	Harry Potter and the Order of the Phoenix	J. K. Rowling	3
B00005	Harry Potter and the Goblet of Fire	J. K. Rowling	3

Input: Login as librarian with incorrect ID or password



Output: The system will pop up an alert box and say “Invalid Librarian ID/Email/Password”



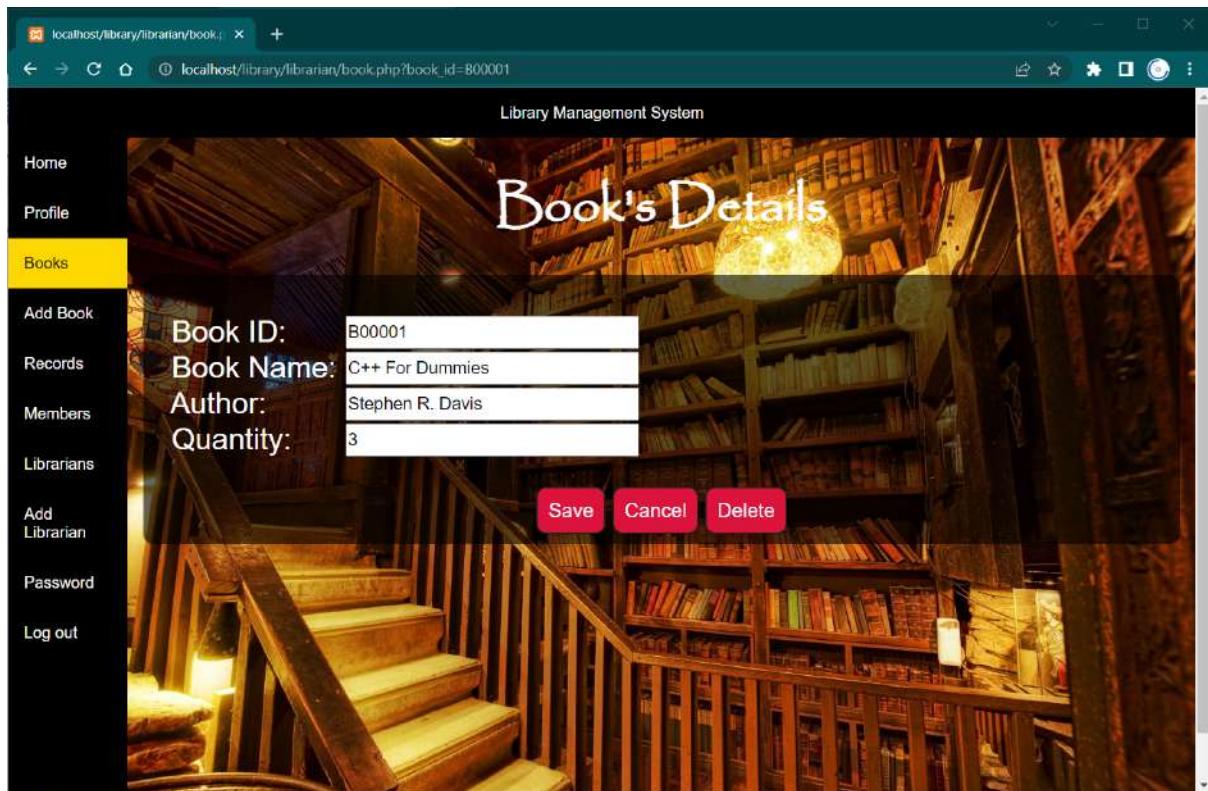
Input: Leave the field in blank



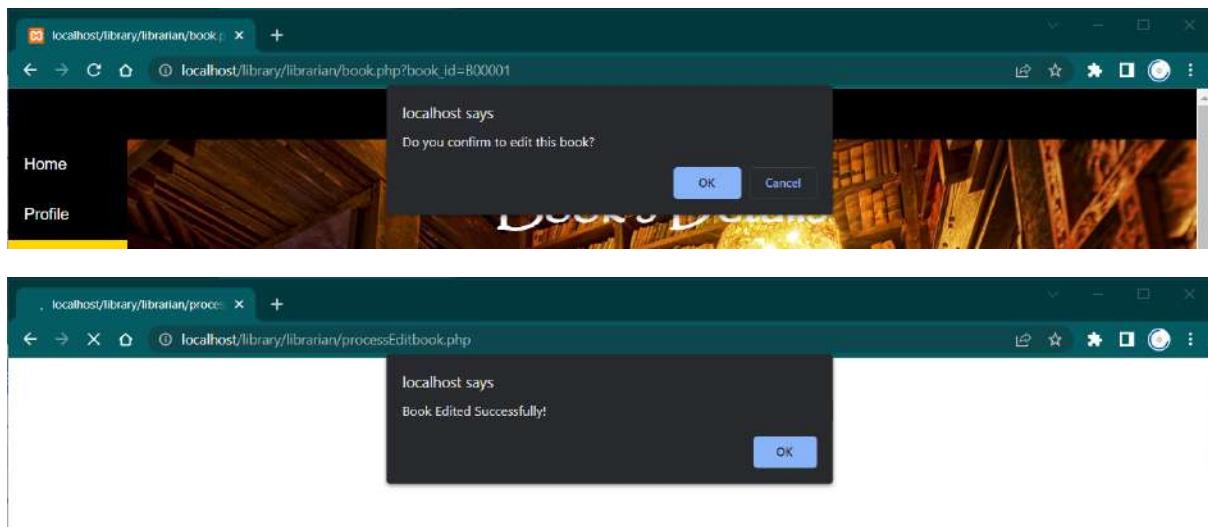
Output: System will show a message which is “Please fill out this field.”



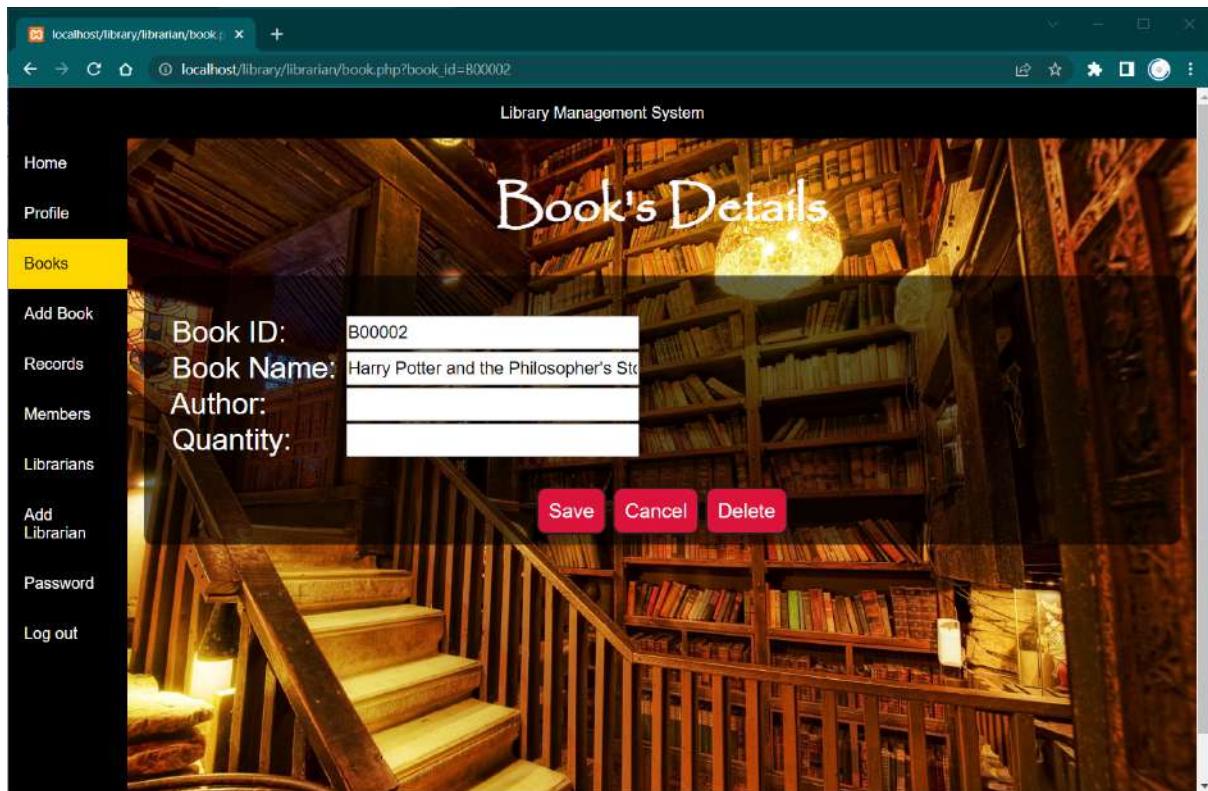
Input: Librarians edit book.



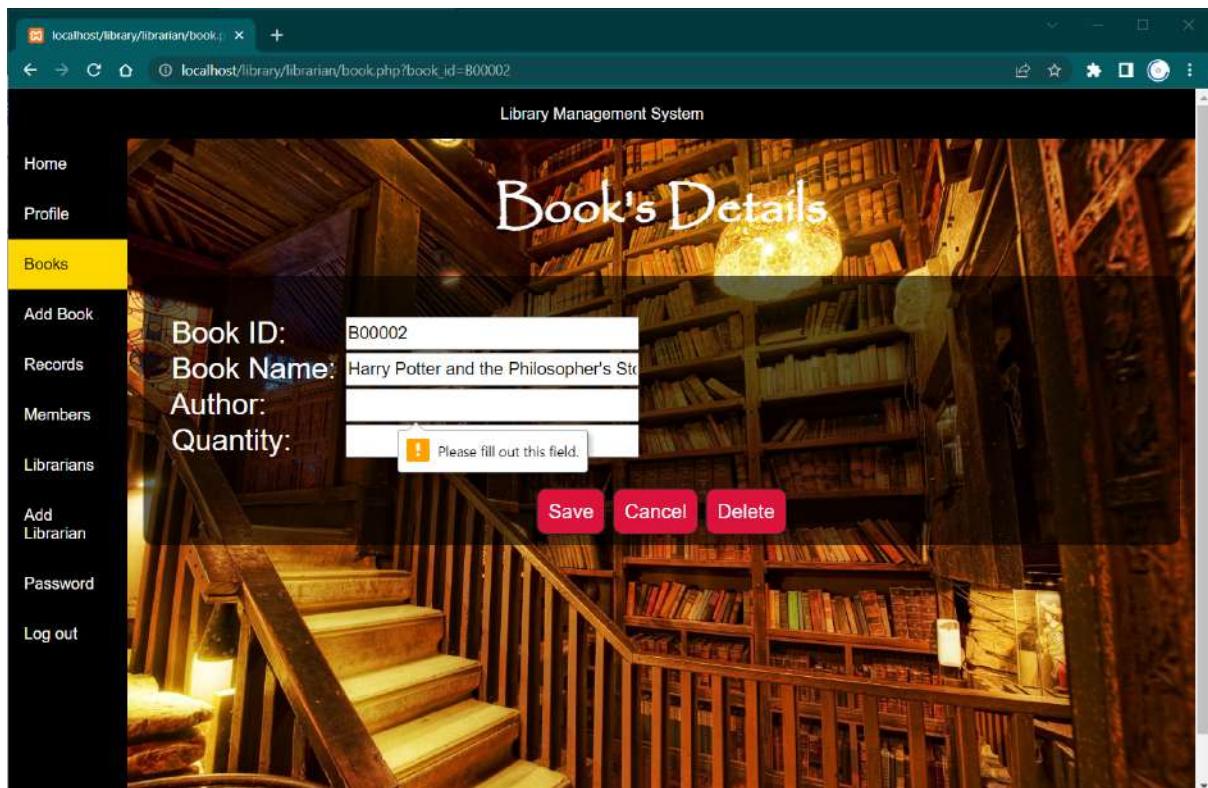
Output: Librarian will be asked if it is confirm, before adding the book into the database.



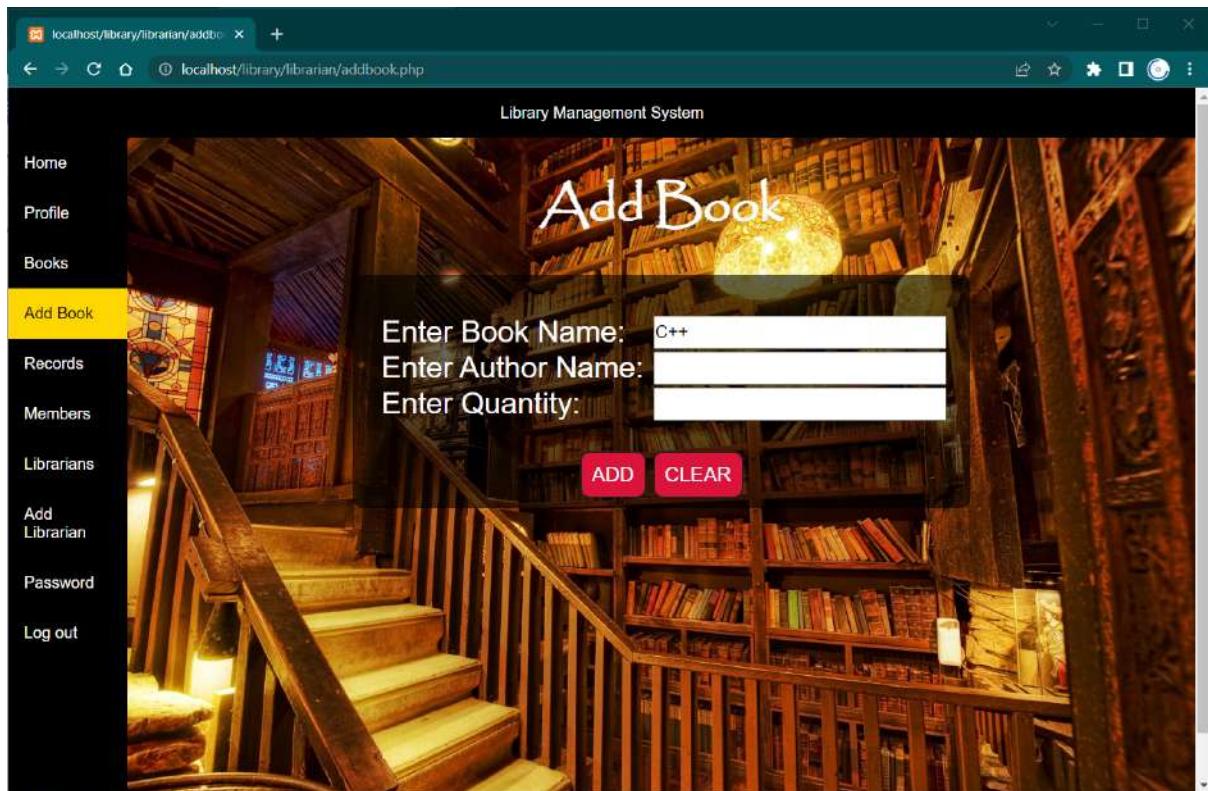
Input: Librarians edit book with empty field.



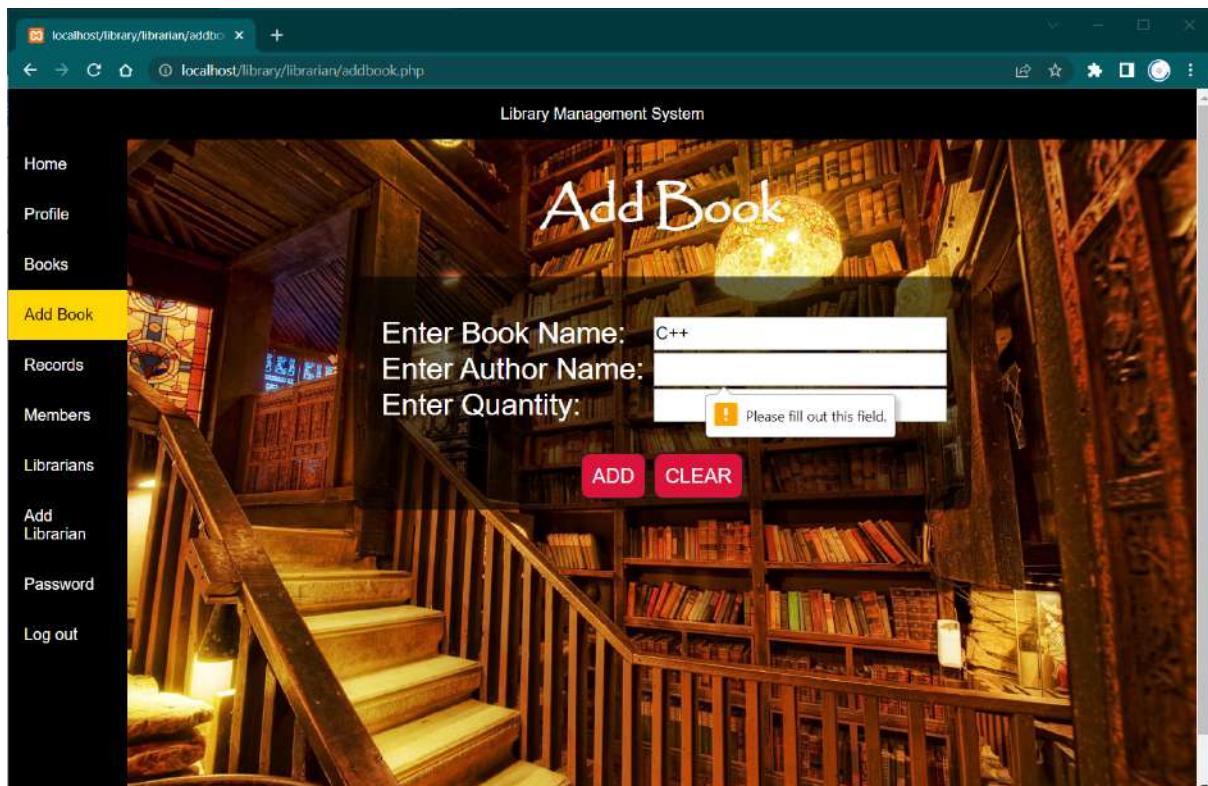
Output: Librarian will be informed to fill out the field.



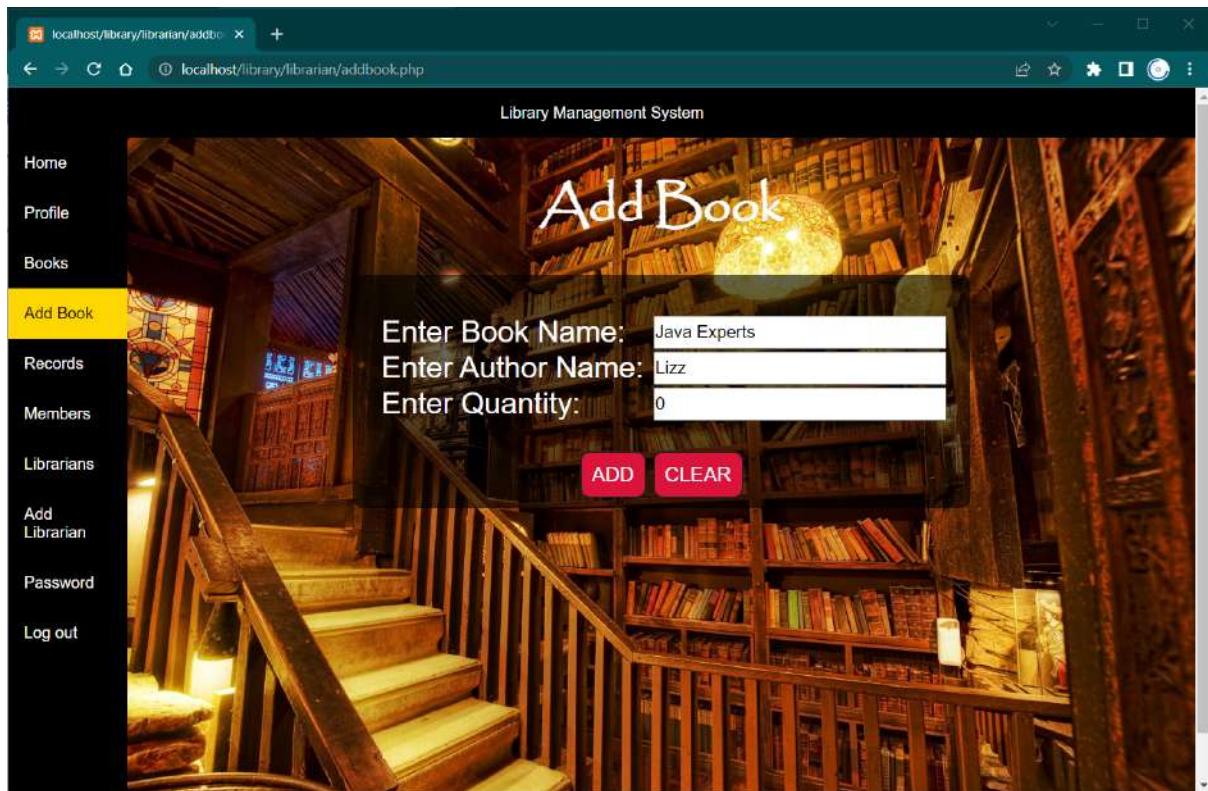
Input: Librarian add book with empty field.



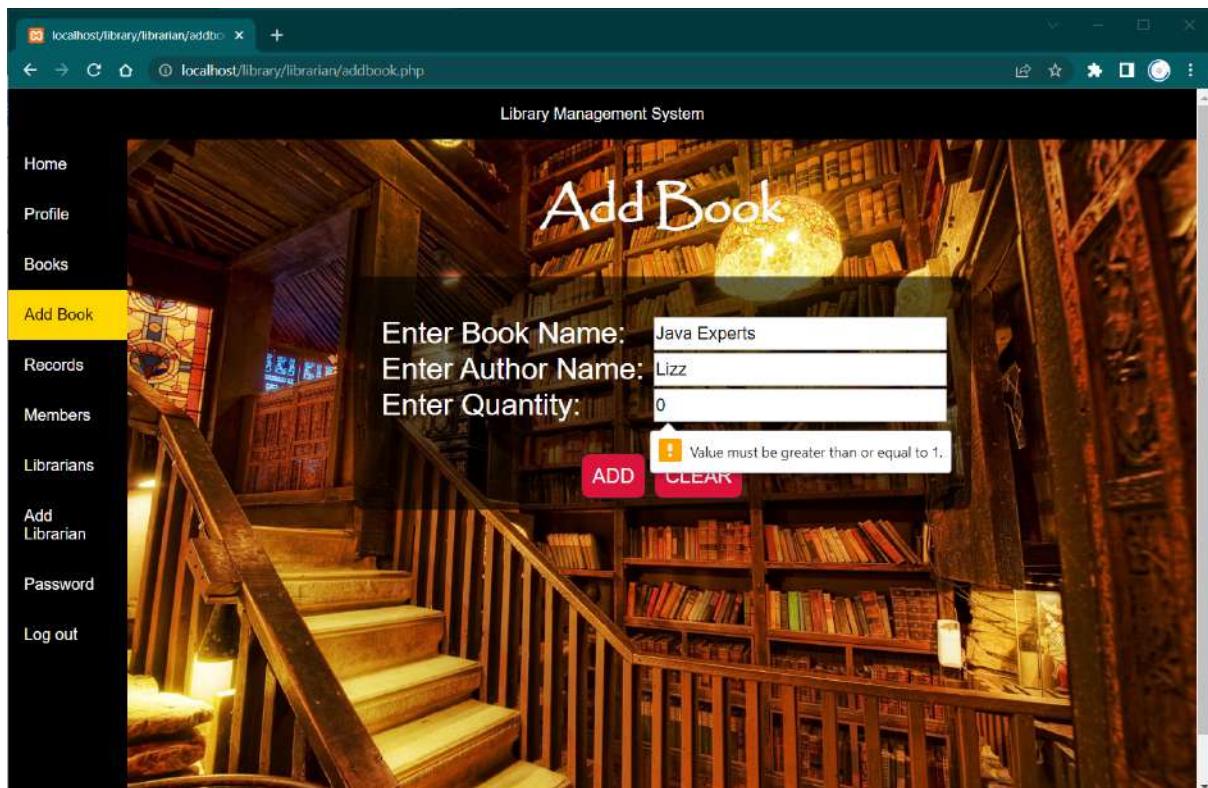
Output: Librarian will be informed to fill out the field.



Input: Librarians add book with zero quantity



Output: System will alert the user that the value of quantity should be greater or equal to 1.



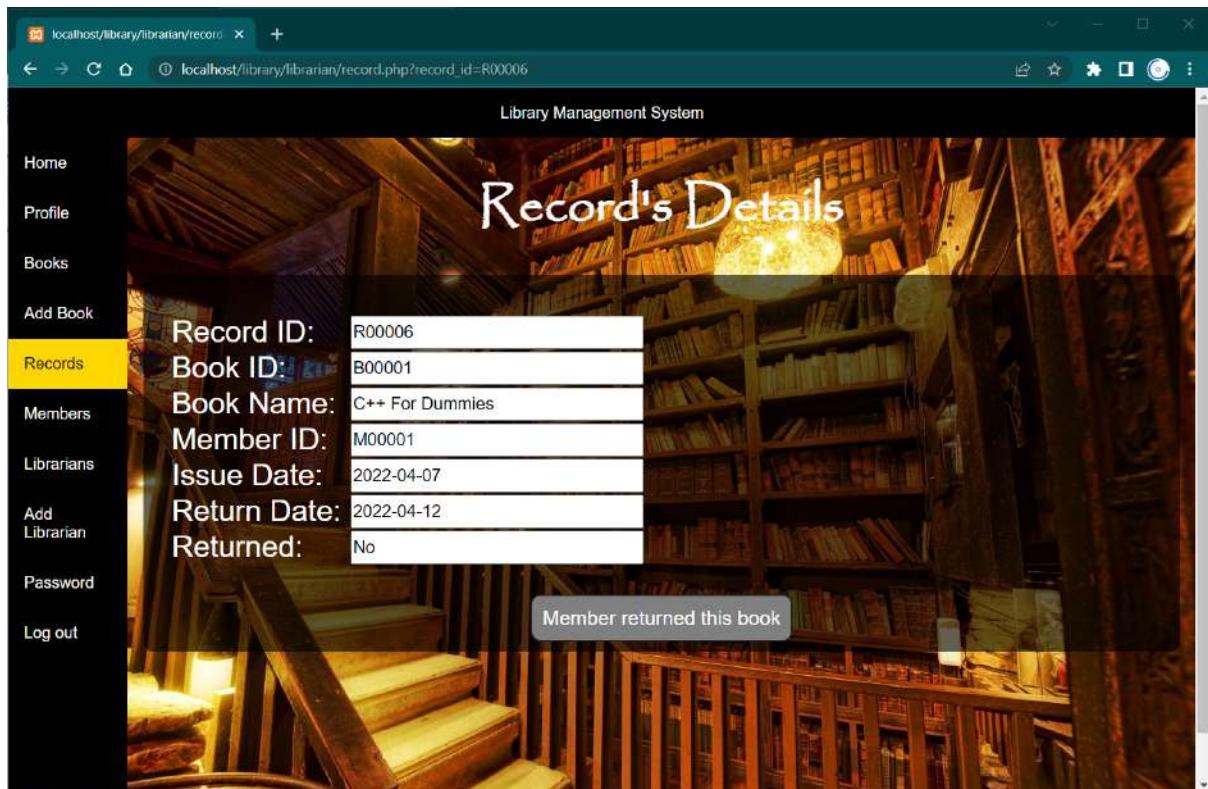
Input: Librarian search a record by issue date. The placeholder will show the date format.

Record ID	Book ID	Book Name	Member ID	Issue date	Return date	Returned
R00010	B00001	C++ For Dummies	M00001	2022-04-08	2022-04-08	Yes
R00009	B00001	C++ For Dummies	M00001	2022-04-08	2022-04-08	Yes
R00008	B00001	C++ For Dummies	M00001	2022-04-08	2022-04-08	Yes
R00007	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-08	Yes
R00006	B00001	C++ For Dummies	M00001	2022-04-07	2022-04-08	Yes
R00005	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-07	Yes

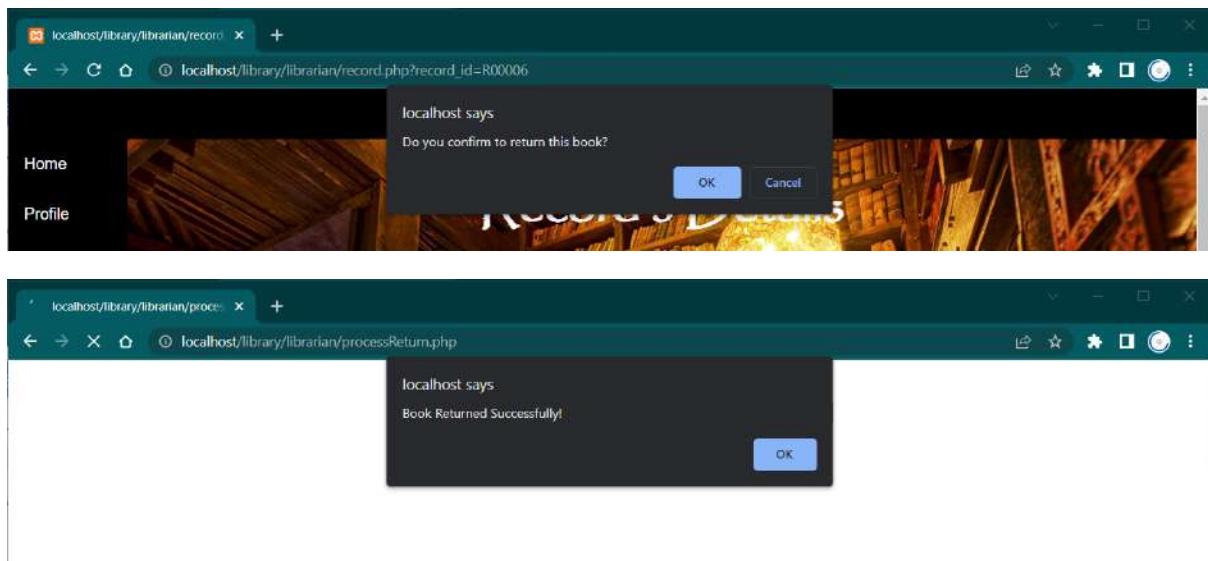
Output: When the librarian enters the date and clicks search, the records with the date search will be shown.

Record ID	Book ID	Book Name	Member ID	Issue date	Return date	Returned
R00001	B00001	C++ For Dummies	M00001	2022-04-07	2022-04-12	No
R00002	B00001	C++ For Dummies	M00001	2022-04-07	2022-04-07	Yes
R00003	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-12	No
R00004	B00001	C++ For Dummies	M00001	2022-04-07	2022-04-07	Yes
R00005	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-07	Yes
R00006	B00001	C++ For Dummies	M00001	2022-04-07	2022-04-08	Yes
R00007	B00002	Harry Potter and the Philosopher's Stone	M00001	2022-04-07	2022-04-08	Yes

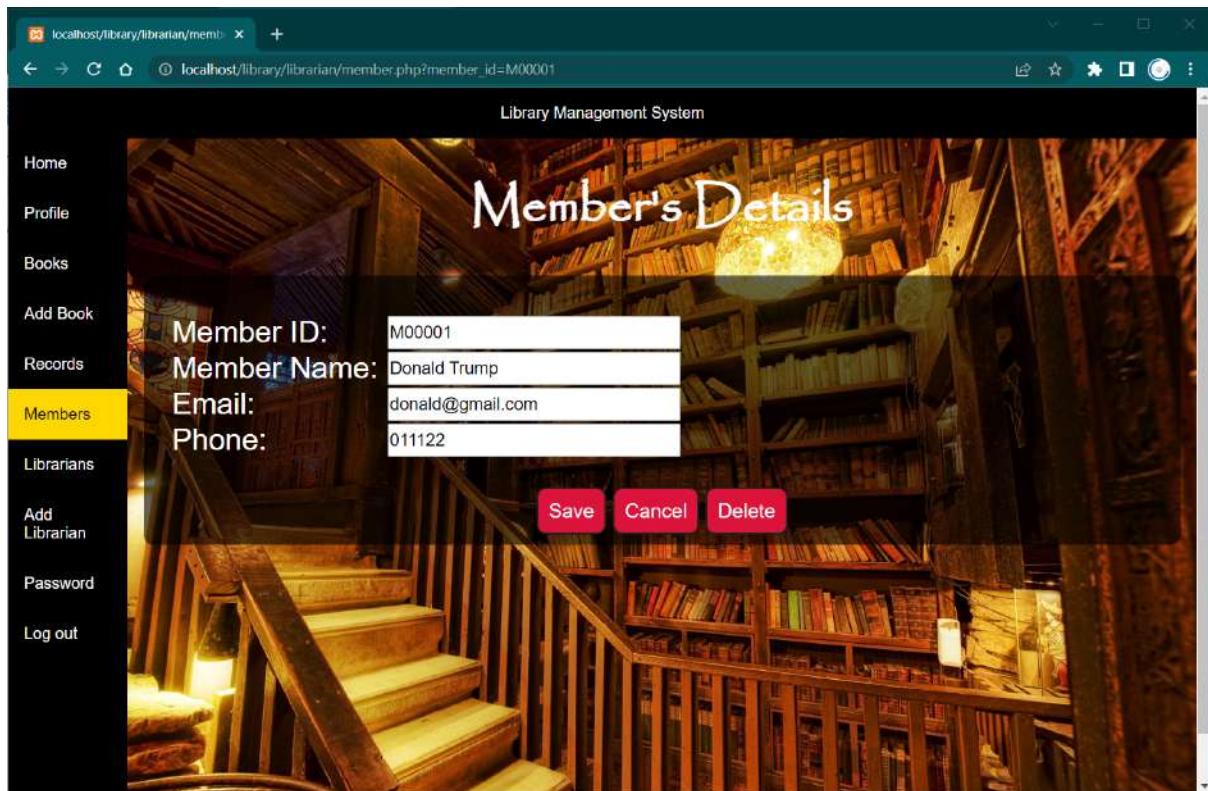
Input: Librarian help member to return book.



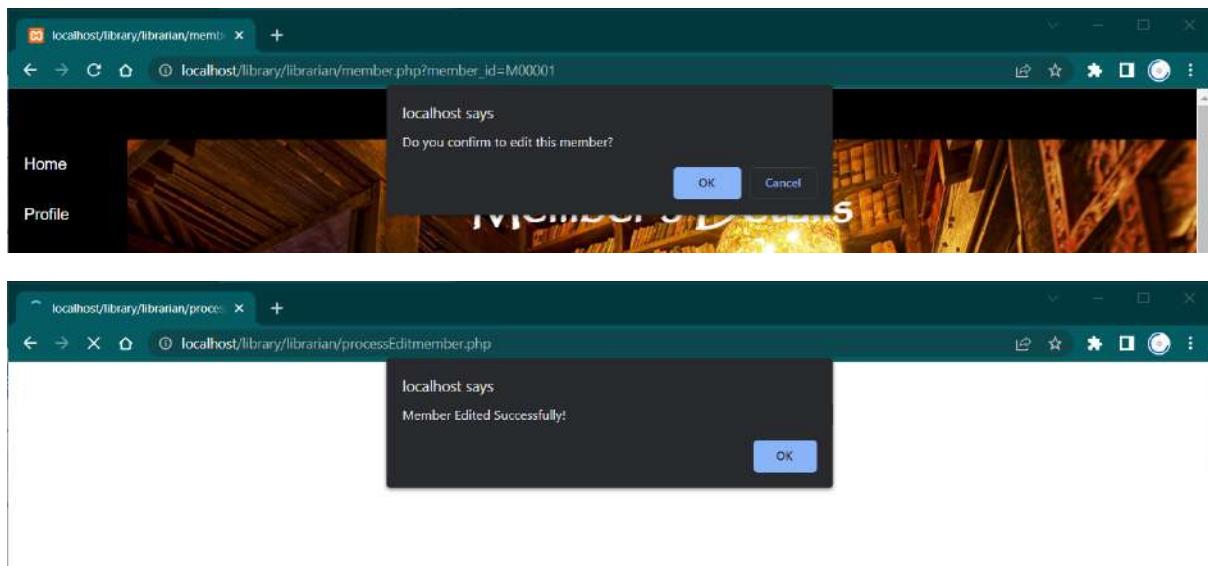
Output: System will confirm the operation before making change in the database.



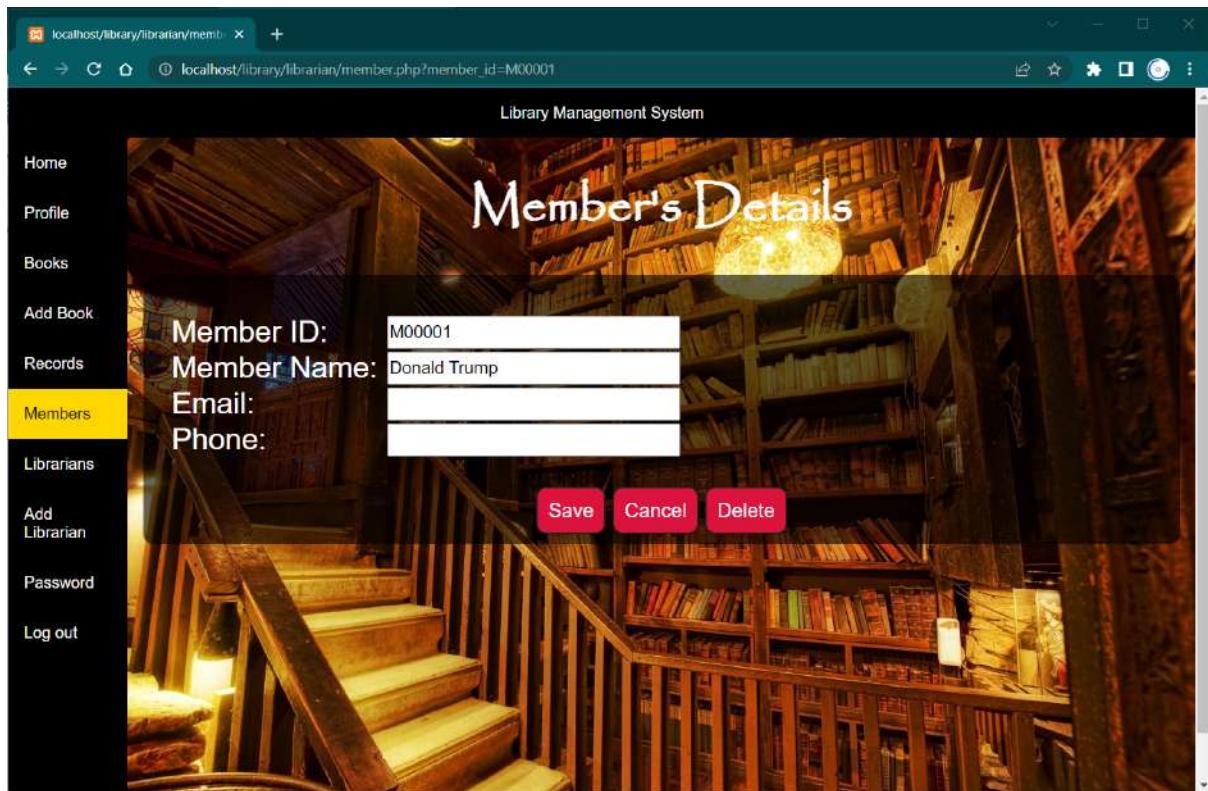
Input: Librarian edit member's information.



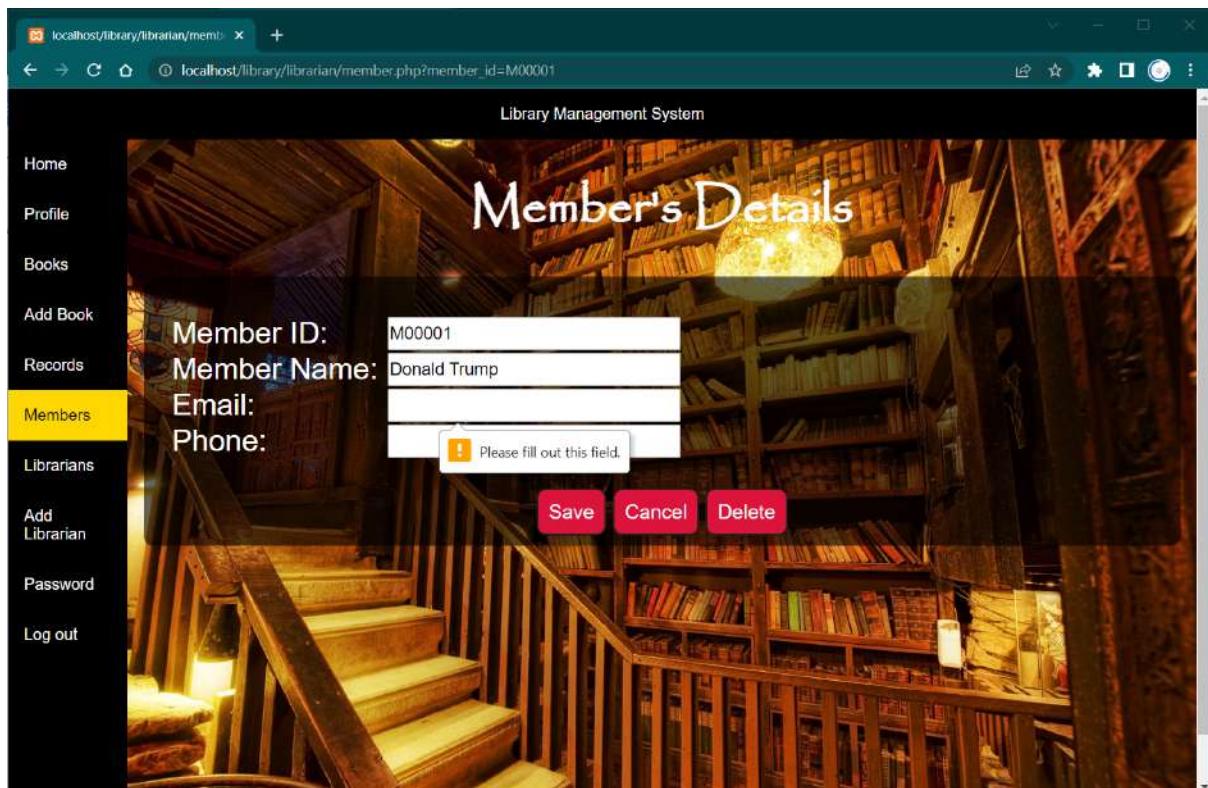
Output: System will confirm the operation before making changes in the database.



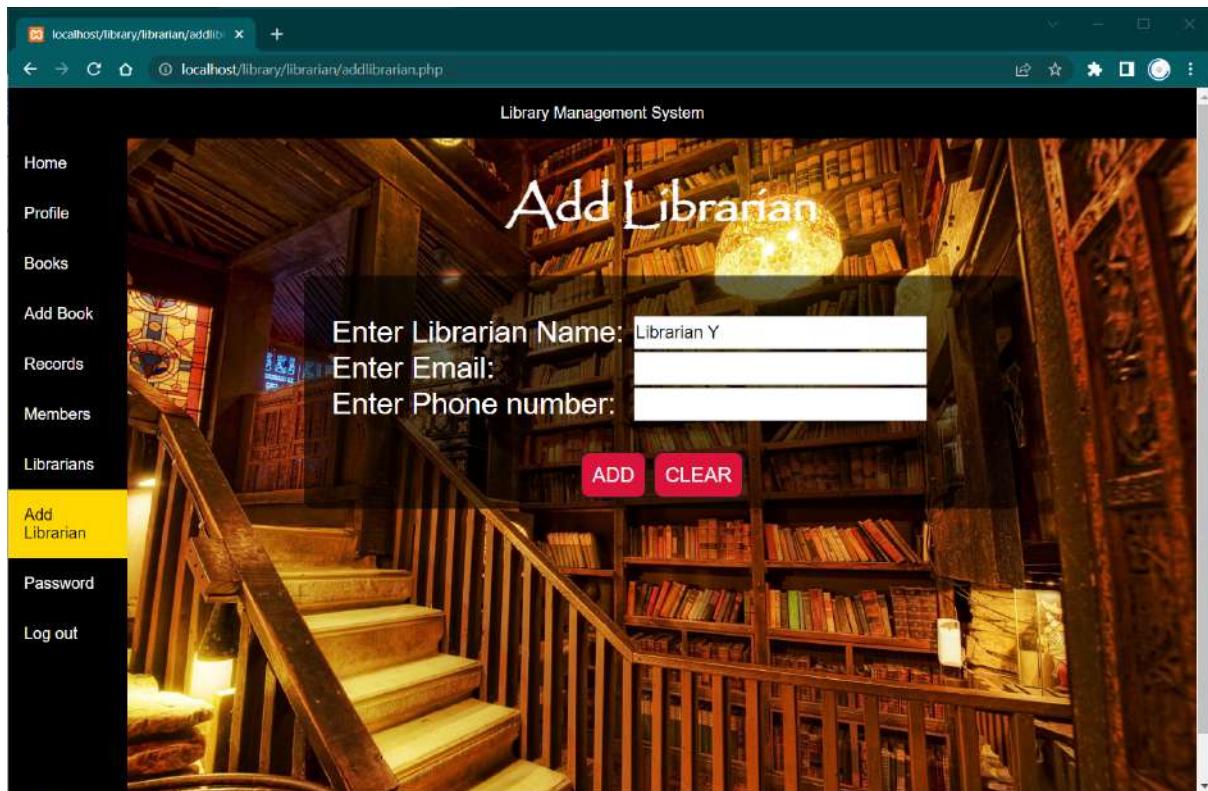
Input: Librarian edit member's information with empty field.



Output: System will inform the librarians to fill out the field.



Input: Librarian add librarian with empty field.



Output: The system will inform the user to fill out the field.

