

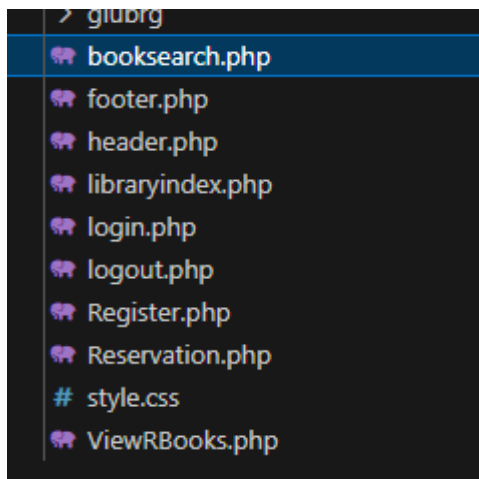
WEB DEVELOPMENT

This is the pdf file which I'll use for the following:

- lists the PHP pages used in your application – including a textual description of each page stating what the page does and how it interacts with other pages
- contains a copy listing of your source code (.php, .html).
- contains a copy sample of each screen as it appears in your application

PHP PAGES

My files are booksearch.php, footer.php, header.php, libraryindex.php, login.php, logout.php, Register.php, Reservation.php, style.css, ViewRBooks.php in that order.



All php files include the code below

Booksearch.php

This PHP file is used to search up the books using the title of the book, author or category which outputs the book title, edition and the year it was published. This file interacts with the Reservation.php file, for each book searched there is a reserve button beside it which allows the user who has logged in to reserve the book.

Footer.php

This php file is used to write a footer for the booksearch.php, login.php, Register.php, ViewRBooks.php as well as connect the to the stylesheet.

Header.php

This php file is used to connect the [booksearch.php](#), [login.php](#), [Register.php](#), [ViewRBooks.php](#) to the stylesheet.

Libraryindex.php

This is the php file which indexes all the php files except the [Reservation.php](#) and is used for navigation and contains a html structure. This file interacts with all php files except [header.php](#), [footer.php](#) and [Reservation.php](#).

Login.php

This is the php file which is used to login, and this creates a session which carries onto every other php file, this session that is created is needed by majority of the files since you must be logged in to something to use its features. This file interacts with all except the [libraryindex.php](#), [header.php](#), [footer.php](#), [register.php](#).

Logout.php

This php file is used to logout, that is pretty much it and after that it will return to the [login.php](#). Interacts with the [login.php](#).

Register.php

The register.php file is used to create a new user account and adds that to the users table which then can now be used for the login in the [login.php](#). It interacts with the [login.php](#) as said before.

Reservation.php

This file is used to reserve a book, the way I did it was that when a book is searched in the [booksearch.php](#) there will be a reserve button if it hasn't been reserved and if it has there will be an already reserved on it. This interacts with [booksearch.php](#) as said above and [ViewRBooks.php](#) which then outputs the reserved book.

Style.css

This is the stylesheet which gives the website a new look and designs the website to make it more appealing and approachable. It interacts with the [booksearch.php](#), [login.php](#), [Register.php](#), [ViewRBooks.php](#).

ViewRBooks.php

This is the php file which allows the user who is in the session to view the books which is reserved by them. This interacts with the [reservation.php](#) by them being connecting to each other anything reserved in the [reservation.php](#) is shown thanks to this php file.

Copy Sample of my Website

Register.php

Library

Register Search for a Book View reserved books Login Logout

Library Assignment

Login Register

Register

User Name:
cdc

Password:

First Name:

Surname:

Address Line 1:

Address Line 2:

Booksearch.php

Library

Register Search for a Book View reserved books Login Logout

Search for a Book

Book Title:

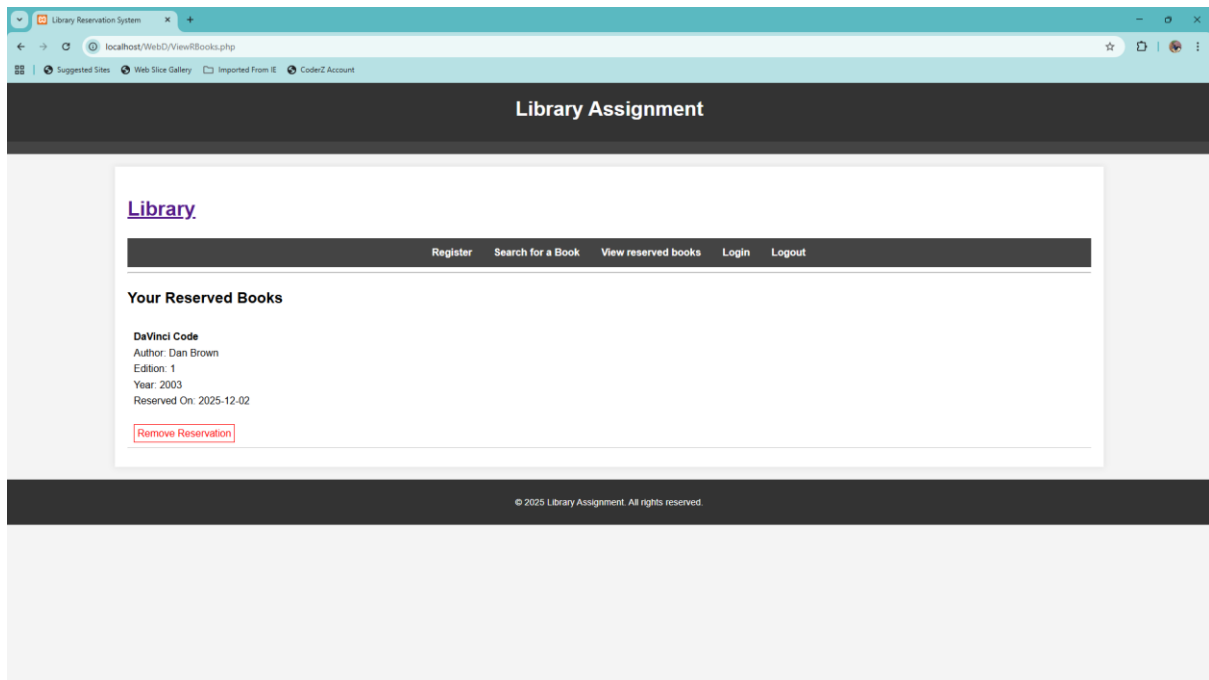
Author:

Category:
-- Please Select --

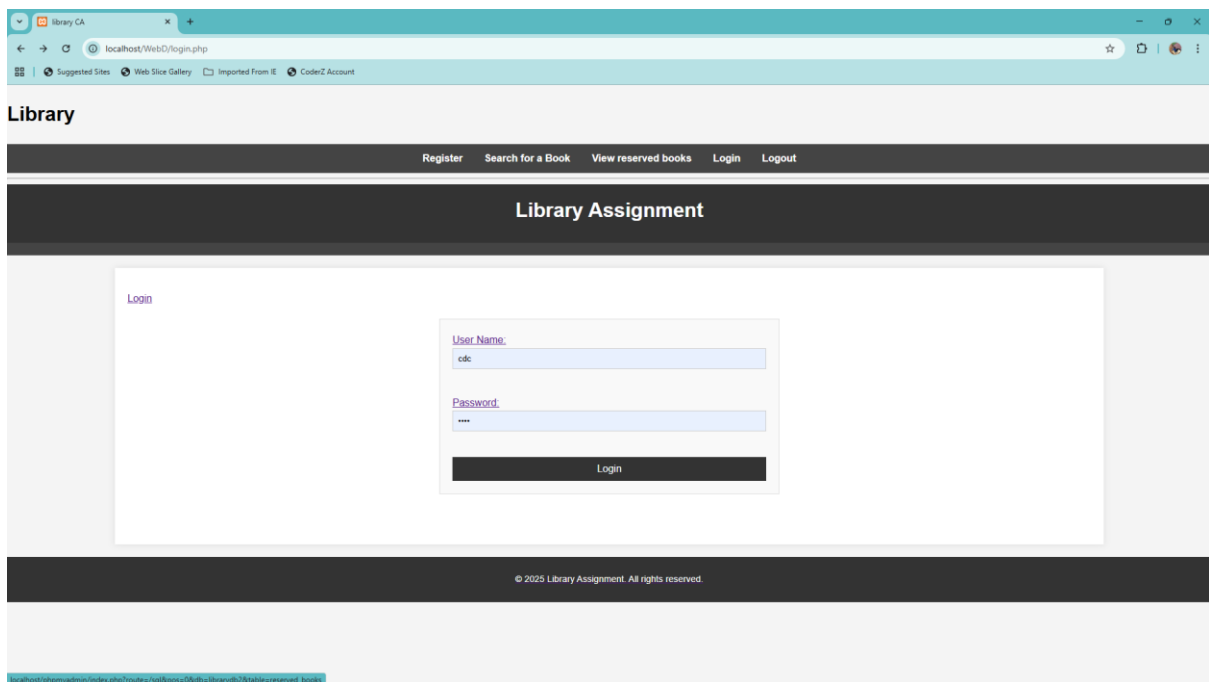
Search

© 2025 Library Assignment. All rights reserved.

ViewRBook.php



Login.php



Reservation.php

Library Reservation System

localhost/WebD/booksearch.php

Suggested SitesWeb Slice GalleryImported From FirefoxCode2 Account

Library

RegisterSearch for a BookView reserved booksLoginLogout

Search for a Book

Book Title:

Author:

Category:

-- Please Select --

Search

computers for idiots

Author: Susan O'Neill

Edition: 5

Year: 1998

[Reserve](#)

© 2025 Library Assignment. All rights reserved.

[Copy Listing of my source code](#)

[Booksearch.php](#)

login.php
Register.php
booksearch.php X
logout.php
style.css
footer.php
header.php

```

WebD > booksearch.php
1  <?php
2  session_start();
3
4  if (!isset($_SESSION['username'])) {
5      die("You must be logged in to search for books.");
6  }
7
8  $user = $_SESSION['username'];
9
10 $servername = "localhost:3307";
11 $username = "root";
12 $password = "";
13 $dbname = "librarydb2";
14
15 $conn = new mysqli($servername, $username, $password, $dbname);
16
17 if ($conn->connect_error) {
18     die("Connection failed: " . $conn->connect_error);
19 }
20 include 'header.php';
21 ?>
22
23 <?php include 'libraryindex.php'; ?>
24
25
26 <h2>Search for a Book</h2>
27
28 <form method="post">
29     Book Title: <input type="text" name="BookTitle"><br><br>
30     Author: <input type="text" name="Author"><br><br>
31
32     Category:
33     <select name="Category">
34         <option value="">-- Please Select --</option>
35
36         <?php
37         $catResult = mysqli_query($conn, "SELECT * FROM Category");
38         while ($cat = mysqli_fetch_assoc($catResult)) {
39             echo "<option value='" . $cat['CategoryID'] . "'> " . $cat['CategoryDescription'] . "</option>";
40         }
41         ?>
42     </select>
43
44     <br><br>
45     <input type="submit" value="Search">
46 </form>
47
48 <?php
49
50 if ($_SERVER["REQUEST_METHOD"] == "POST") {

```

login.php
Register.php
booksearch.php X
logout.php
style.css
footer.php
header.php

WebD > booksearch.php

```

50  if ($_SERVER["REQUEST_METHOD"] == "POST") {
51
52      $b = trim($_POST['BookTitle']);
53      $a = trim($_POST['Author']);
54      $c = trim($_POST['Category']);
55
56      if (empty($b) && empty($a) && empty($c)) {
57          echo "<p>Please enter at least one search field.</p>";
58      } else {
59
60          $sql = "SELECT * FROM Books WHERE 1=1";
61
62          if (!empty($b)) $sql .= " AND BookTitle LIKE '%$b%'";
63          if (!empty($a)) $sql .= " AND Author LIKE '%$a%'";
64          if (!empty($c)) $sql .= " AND CategoryID = '$c'";
65
66          $qry = mysqli_query($conn, $sql);
67
68          if ($qry && mysqli_num_rows($qry) > 0) {
69
70              while ($row = mysqli_fetch_assoc($qry)) {
71                  echo "<div style='border:1px solid #ccc; padding:10px; margin:10px 0;'>";
72
73                  echo "<strong> " . $row['BookTitle'] . "</strong><br>";
74                  echo "Author: " . $row['Author'] . "<br>";
75                  echo "Edition: " . $row['Edition'] . "<br>";
76                  echo "Year: " . $row['Year'] . "<br>";
77
78
79                  if ($row['Reserved'] == 'Y') {
80                      echo "<p style='color:red;'>This book is already reserved.</p>";
81                  } else {
82
83                      echo "<a href='Reservation.php?isbn=" . $row['ISBN'] . "'>Reserve</a>";
84                  }
85
86                  echo "</div>";
87              }
88
89          } else {
90              echo "<p>No books found matching your search.</p>";
91          }
92      }
93  }
94  include 'footer.php';
95
96  $conn->close();
97  ?>
98

```

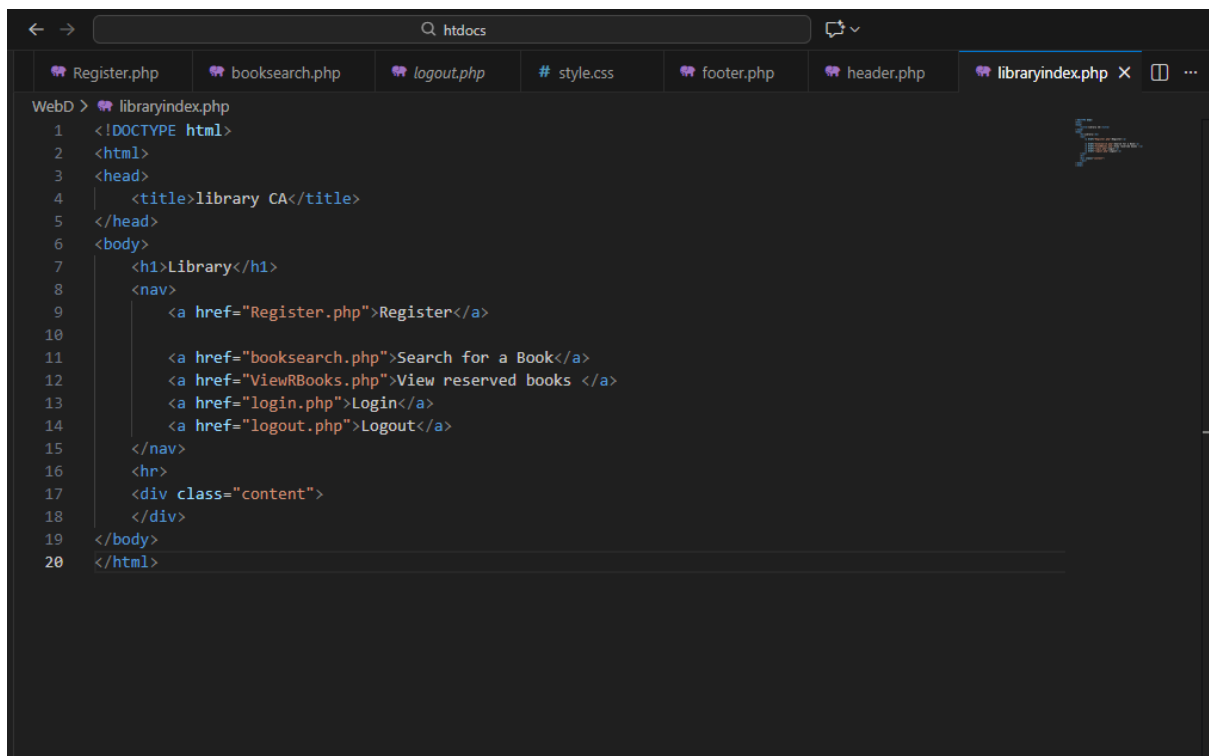

Footer.php

```
WebD > footer.php
1
2 </div>
3
4 <footer>
5 | <p>&copy; <?php echo date("Y"); ?> Library Assignment. All rights reserved.</p>
6 </footer>
7
8 </body>
9 </html>
```

Header.php

```
login.php Register.php booksearch.php logout.php # style.css footer.php header.php X libr
WebD > header.php
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 | <meta charset="UTF-8">
5 | <title>Library Reservation System</title>
6 | <link rel="stylesheet" href="style.css">
7 </head>
8 <body>
9
10 <header>
11 | <h1>Library Assignment </h1>
12 </header>
13
14 <nav>
15 | <?php
16 | if (isset($_SESSION['username'])) {
17 | } else {
18 |
19 |     echo '<a href="login.php">Login</a>';
20 |     echo '<a href="register.php">Register</a>';
21 | }
22 | ?>
23 </nav>
24
25 <div class="container">
26
```

Libraryindex.php



```
WebD > libraryindex.php
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>library CA</title>
5 </head>
6 <body>
7   <h1>Library</h1>
8   <nav>
9     <a href="Register.php">Register</a>
10
11     <a href="booksearch.php">Search for a Book</a>
12     <a href="ViewRBooks.php">View reserved books </a>
13     <a href="login.php">Login</a>
14     <a href="logout.php">Logout</a>
15   </nav>
16   <hr>
17   <div class="content">
18   </div>
19 </body>
20 </html>
```

Login.php

```
login.php x Register.php booksearch.php logout.php # style.css footer.php header.php libr ...
WebD > login.php
11 $username = "librarian";
12
13
14 $conn = new mysqli($servername, $username, $password, $dbname);
15
16
17 if ($conn->connect_error) {
18     die("Connection failed: " . $conn->connect_error);
19 }
20 include 'header.php';
21
22 $username = "";
23 $errors = [];
24 if ($_SERVER["REQUEST_METHOD"] == "POST") {
25     $u = $_POST['Username'];
26     $p = $_POST['Password'];
27     if (empty($u) || empty($p)) {
28         $errors[] = "Please enter both username and password.";
29     } else {
30
31         $sql = "SELECT * FROM users WHERE Username='$u' and Password = '$p'";
32         $result = mysqli_query($conn, $sql);
33         $row = mysqli_fetch_assoc($result);
34         if ($row) {
35
36             $_SESSION['Username'] = $row['Username'];
37             echo "Login successful! Welcome, " . $row['Username'];
38             session_start();
39             $_SESSION['username'] = $u;
40             header("Location: ViewRBooks.php");
41             return;
42
43         } else {
44             echo "Username or password is incorrect.";
45         }
46     }
47 }
48 ?>
49 <p>Login</p>
50 <form method="post" >
51     User Name: <input type="text" name="Username" required><br><br>
52     Password: <input type="Password" name="Password" required><br><br>
53     <input type="submit" value="Login">
54
55 <?php
56 include 'footer.php';
57 $conn->close();
58
59 ?>
```

Logout.php

```
Register.php booksearch.php logout.php x # style.css footer.php header.php libraryindex.php
WebD > logout.php
1 <?php
2 session_start();
3 session_destroy();
4 header("Location: login.php");
5 exit;
6 ?>
7
```

Register.php

```
11
12
13 if ($conn->connect_error) {
14     die("Connection failed: " . $conn->connect_error);
15 }
16
17 include 'header.php';
18
19 if ($_SERVER["REQUEST_METHOD"] == "POST") {
20     $u = $_POST['Username'];
21     $p = $_POST['Password'];
22     $f = $_POST['FirstName'];
23     $s = $_POST['Surname'];
24     $a1 = $_POST['AddressLine1'];
25     $a2 = $_POST['AddressLine1'];
26     $c = $_POST['City'];
27     $t = $_POST['Telephone'];
28     $m = $_POST['Mobile'];
29
30     $sql = "INSERT INTO Users (Username, Password, FirstName, Surname,AddressLine1,Addressline2,City,Te
31
32     if ($conn->query($sql) === TRUE) {
33         echo "<p>New user created</p>";
34     } else {
35         echo "Error: " . $sql . "<br>" . $conn->error;
36     }
37 }
38 ?>
39
40 <p>Register</p>
41 <form method="post" >
42     User Name: <input type="text" name="Username" required><br><br>
43     Password: <input type="Password" name="Password" required><br><br>
44     First Name: <input type="text" name="FirstName" required><br><br>
45     Surname: <input type="text" name="Surname" required><br><br>
46     Address Line 1: <input type="text" name="AddressLine1" ><br><br>
47     Address Line 2: <input type="text" name="AddressLine2" ><br><br>
48     City: <input type="text" name="City" ><br><br>
49     Phone Number: <input type="Number" name="Telephone" ><br><br>
50     Mobile: <input type="Number" name="Mobile" required><br><br>
51
52     <input type="submit" value="Register">
53 </form>
54
55 <?php
56 include 'footer.php';
57
58 $conn->close();
59 ?>
```

Reservation.php

```
booksearch.php  logout.php  # style.css  footer.php  header.php  libraryindex.php  Reservation.php X
ebD > Reservation.php
1  <?php
2  session_start();
3
4
5  if (!isset($_SESSION['username'])) {
6      die("You must be logged in to reserve a book.");
7  }
8
9  $user = $_SESSION['username'];
10
11
12  $servername = "localhost:3307";
13  $dbuser = "root";
14  $dbpass = "";
15  $dbname = "librarydb2";
16
17  $conn = new mysqli($servername, $dbuser, $dbpass, $dbname);
18
19  if ($conn->connect_error) {
20      die("Connection failed: " . $conn->connect_error);
21  }
22
23  if (isset($_GET['isbn'])) {
24      $isbn = $_GET['isbn'];
25      $date = date("Y-m-d");
26
27      $insertSql = "INSERT INTO reserved_books (ISBN, Username, ReservedDate) VALUES ('$isbn', '$user', '$date')";
28
29
30      if (mysqli_query($conn, $insertSql)) {
31
32          $updateSql = "UPDATE Books SET Reserved = 'Y' WHERE ISBN = '$isbn'";
33          mysqli_query($conn, $updateSql);
34
35          echo "<h3>Success!</h3>";
36          echo "<p> The book (ISBN: $isbn) has been reserved for $user.</p>";
37          echo "<a href='booksearch.php'>Search for another book</a> | ";
38          echo "<a href='ViewRBooks.php'>View my reserved books</a>";
39
40      } else {
41
42          echo "<h3>Error</h3>";
43          echo "<p>Could not reserve book. " . mysqli_error($conn) . "</p>";
44      }
45
46  } else {
47      echo "No ISBN provided.";
48  }
49
50
51  $conn->close();
```

Style.css

```
1
2 body {
3   font-family: Arial, sans-serif;
4   background-color: #f4f4f4;
5   margin: 0;
6   padding: 0;
7   line-height: 1.6;
8 }
9
10
11 header {
12   background-color: #333;
13   color: #fff;
14   padding: 1rem 0;
15   text-align: center;
16 }
17
18 header h1 {
19   margin: 0;
20   padding-bottom: 10px;
21 }
22
23 nav {
24   background-color: #444;
25   padding: 10px 0;
26   text-align: center;
27 }
28
29 nav a {
30   color: #fff;
31   text-decoration: none;
32   padding: 0 15px;
33   font-weight: bold;
34 }
35
36 nav a:hover {
37   color: #ff9900;
38 }
39
40
41 .container {
42   width: 80%;
43   margin: auto;
44   overflow: hidden;
45   padding: 20px;
46   background: #fff;
47   margin-top: 20px;
48   min-height: 400px;
49   box-shadow: 0 0 10px rgba(0,0,0,0.1);
50 }
51
```

```

115 a.btn-reserve {
118     color: white;
119     padding: 5px 10px;
120     text-decoration: none;
121     border-radius: 4px;
122 }
123
124 a.btn-remove {
125     display: inline-block;
126     background-color: #dc3545;
127     color: white;
128     padding: 5px 10px;
129     text-decoration: none;
130     border-radius: 4px;
131 }
132
133
134 .pagination {
135     margin-top: 20px;
136     text-align: center;
137 }
138
139 .pagination a {
140     color: #333;
141     padding: 8px 16px;
142     text-decoration: none;
143     border: 1px solid #ddd;
144     margin: 0 2px;
145 }
146
147 .pagination a.active {
148     background-color: #333;
149     color: white;
150     border: 1px solid #333;
151 }
152
153
154 footer {
155     background-color: #333;
156     color: #fff;
157     text-align: center;
158     padding: 10px;
159     margin-top: 20px;
160     font-size: 0.9em;
161 }
162
163 .error { color: red; font-weight: bold; text-align: center; }
164 .success { color: green; font-weight: bold; text-align: center; }

```


ViewRBooks.php

```
ViewRBooks.php X login.php Register.php booksearch.php logout.php # style.css footer.php
WebD > ViewRBooks.php
1  <?php
2  session_start();
3
4  if (!isset($_SESSION['username'])) {
5      die("You must be logged in to view reserved books.");
6  }
7  include 'header.php';
8  $user = $_SESSION['username'];
9
10 $servername = "localhost:3307";
11 $username = "root";
12 $password = "";
13 $dbname = "librarydb2";
14
15 $conn = new mysqli($servername, $username, $password, $dbname);
16
17 if ($conn->connect_error) {
18     die("Connection failed: " . $conn->connect_error);
19 }
20
21
22
23 if (isset($_GET['remove'])) {
24     $isbn = $_GET['remove'];
25
26
27     $sqlDelete = "DELETE FROM reserved_books WHERE Username='$user' AND ISBN='$isbn'";
28     mysqli_query($conn, $sqlDelete);
29
30
31     $sqlUpdate = "UPDATE Books SET Reserved = 'N' WHERE ISBN = '$isbn'";
32     mysqli_query($conn, $sqlUpdate);
33
34     echo "<p style='color:green;'>Reservation removed successfully.</p>";
35 }
36 ?>
37
38 <?php include 'libraryindex.php'; ?>
39
40 <h2>Your Reserved Books</h2>
41
42 <?php
43
44 $sql = "SELECT Books.ISBN, Books.BookTitle, Books.Author, Books.Edition, Books.Year, reserved_books.Reserv
45
46 $result = mysqli_query($conn, $sql);
47
48 if (!$result || mysqli_num_rows($result) == 0) {
49     echo "<p>You have no reserved books.</p>";
50 } else {
51     while ($row = mysqli_fetch_assoc($result)) {
```

```

50 } else {
51     while ($row = mysqli_fetch_assoc($result)) {
52
53         echo "<div style='border-bottom: 1px solid #ccc; padding: 10px; margin-bottom: 10px;'>";
54
55         echo "<strong>" . $row['BookTitle'] . "</strong><br>";
56         echo "Author: " . $row['Author'] . "<br>";
57         echo "Edition: " . $row['Edition'] . "<br>";
58         echo "Year: " . $row['Year'] . "<br>";
59         echo "Reserved On: " . $row['ReservedDate'] . "<br><br>";
60
61
62         echo "<a href='?remove=" . $row['ISBN'] . "'
63             style='color: red; text-decoration: none; border: 1px solid red; padding: 5px;'
64             onclick=\"return confirm('Are you sure you want to return this book?');\">
65             Remove Reservation
66         </a>";
67
68         echo "</div>";
69     }
70 }
71 include 'footer.php';
72 $conn->close();
73 ?>

```