

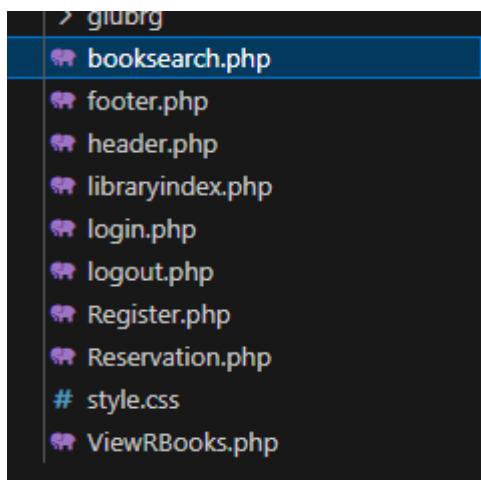
# WEB DEVELOPMENT

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

The screenshot shows a web browser window titled "library CA" with the URL "localhost/WebD/Register.php". The page has a dark header bar with the title "Library Assignment". Below the header is a navigation bar with links for "Login" and "Logout". The main content area is titled "Register" and contains a form for user registration. The form fields are:

- User Name: cdc
- Password: \*\*\*\*
- First Name: (empty)
- Surname: (empty)
- Address Line 1: (empty)
- Address Line 2: (empty)

### Booksearch.php

The screenshot shows a web browser window titled "Library Reservation System" with the URL "localhost/WebD/booksearch.php". The page has a dark header bar with the title "Library Assignment". Below the header is a navigation bar with links for "Login" and "Logout". The main content area is titled "Search for a Book" and contains a form for searching books. The form fields are:

- Book Title: (empty)
- Author: (empty)
- Category: (dropdown menu) - Please Select -

Below the form is a "Search" button.

At the bottom of the page, there is a footer bar with the text "© 2025 Library Assignment. All rights reserved."

## ViewRBook.php

The screenshot shows a web browser window titled "Library Reservation System" with the URL "localhost/WebD/ViewRBooks.php". The main content area is titled "Library Assignment". Below it, a section titled "Your Reserved Books" displays a single book entry:

**DaVinci Code**  
Author: Dan Brown  
Edition: 1  
Year: 2003  
Reserved On: 2025-12-02

A red-bordered button labeled "Remove Reservation" is visible below the book details.

At the bottom of the page, a dark footer bar contains the copyright notice: "© 2025 Library Assignment. All rights reserved."

## Login.php

The screenshot shows a web browser window titled "library CA" with the URL "localhost/WebD/login.php". The main content area is titled "Library Assignment". Below it, a section titled "Login" contains a form with two input fields and a "Login" button:

User Name:  
cdc

Password:  
....

At the bottom of the page, a dark footer bar contains the copyright notice: "© 2025 Library Assignment. All rights reserved."

In the address bar, the URL "localhost/phpmyadmin/index.php?route=sqllogos&db=librarydb&table=reserved\_books" is visible.

## Reservation.php

The screenshot shows a web browser window titled "Library Reservation System" with the URL "localhost/WebD/booksearch.php". The page has a header with links for "Register", "Search for a Book", "View reserved books", "Login", and "Logout". Below the header is a form titled "Search for a Book" with fields for "Book Title", "Author", and "Category" (a dropdown menu with "Please Select --"). A "Search" button is at the bottom of the form. Below the form, there is a result section for a book titled "computers for idiots" by Susan O'Neill, Edition 5, Year 1998. It includes a "Reserve" link. At the bottom of the page is a footer with the text "© 2025 Library Assignment. All rights reserved."

Library.

Register   Search for a Book   View reserved books   Login   Logout

**Search for a Book**

Book Title:

Author:

Category:

**Search**

computers for idiots  
Author: Susan O'Neill  
Edition: 5  
Year: 1998  
[Reserve](#)

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

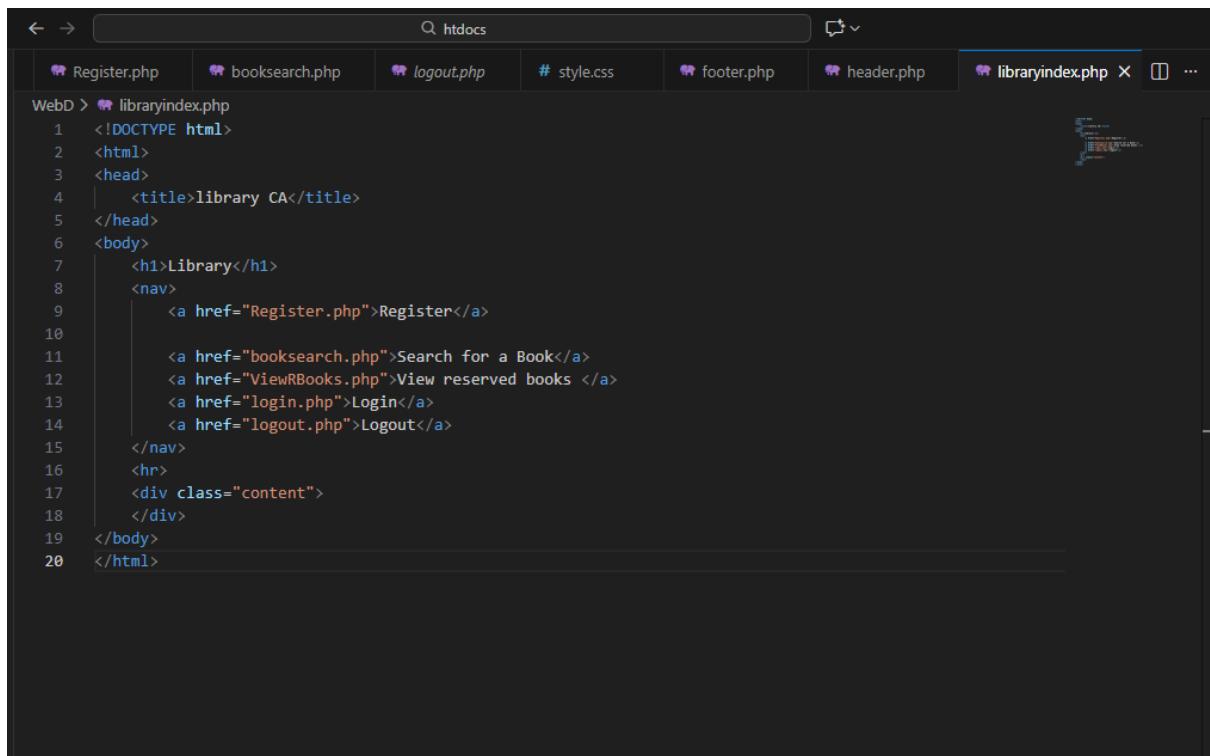
## Footer.php

```
WebD > footer.php
1  </div>
2
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

```
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         <a href="booksearch.php">Search for a Book</a>
11         <a href="ViewRBooks.php">View reserved books </a>
12         <a href="login.php">Login</a>
13         <a href="logout.php">Logout</a>
14     </nav>
15     <hr>
16     <div class="content">
17         </div>
18     </body>
19 </html>
```

## Login.php

```
login.php X Register.php booksearch.php logout.php # style.css footer.php header.php libr ...  
WebD > login.php  
11  
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             $sql = "SELECT * FROM users WHERE Username='$u' and Password = '$p'";  
31             $result = mysqli_query($conn, $sql);  
32             $row = mysqli_fetch_assoc($result);  
33             if ($row) {  
34                 $_SESSION['Username'] = $row['Username'];  
35                 echo "Login successful! Welcome, " . $row['Username'];  
36                 session_start();  
37                 $_SESSION['username'] = $u;  
38                 header("Location: ViewRBooks.php");  
39                 return;  
40             } else {  
41                 echo "Username or password is incorrect.";  
42             }  
43         }  
44     }  
45     }  
46     ?>  
47     <p>Login</p>  
48     <form method="post" >  
49         User Name: <input type="text" name="Username" required><br><br>  
50         Password: <input type="Password" name="Password" required><br><br>  
51         <input type="submit" value="Login">  
52  
53     <?php  
54     include 'footer.php';  
55     $conn->close();  
56  
57     ?>
```

## 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

```
WebD > Register.php
11
12     if ($conn->connect_error) {
13         die("Connection failed: " . $conn->connect_error);
14     }
15
16     include 'header.php';
17
18
19     if ($_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['AddressLine2'];
26         $c = $_POST['City'];
27         $t = $_POST['Telephone'];
28         $m = $_POST['Mobile'];
29
30         $sql = "INSERT INTO Users (Username, Password, FirstName, Surname, AddressLine1, AddressLine2, City, Telephone, Mobile) VALUES ('{$u}', '{$p}', '{$f}', '{$s}', '{$a1}', '{$a2}', '{$c}', '{$t}', '{$m}')";
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  body {
2    font-family: Arial, sans-serif;
3    background-color: #f4f4f4;
4    margin: 0;
5    padding: 0;
6    line-height: 1.6;
7  }
8
9
10 header {
11   background-color: #333;
12   color: #fff;
13   padding: 1rem 0;
14   text-align: center;
15 }
16
17 header h1 {
18   margin: 0;
19   padding-bottom: 10px;
20 }
21
22 nav {
23   background-color: #444;
24   padding: 10px 0;
25   text-align: center;
26 }
27
28 nav a {
29   color: #fff;
30   text-decoration: none;
31   padding: 0 15px;
32   font-weight: bold;
33 }
34
35
36 nav a:hover {
37   color: #ff9900;
38 }
39
40 .container {
41   width: 80%;
42   margin: auto;
43   overflow: hidden;
44   padding: 20px;
45   background: #fff;
46   margin-top: 20px;
47   min-height: 400px;
48   box-shadow: 0 0 10px rgba(0,0,0,0.1);
49 }
50 }
51 }
```

```
115 a.btn-reserve {  
116     color: ■white;  
117     padding: 5px 10px;  
118     text-decoration: none;  
119     border-radius: 4px;  
120 }  
121  
122 a.btn-remove {  
123     display: inline-block;  
124     background-color: ■#dc3545;  
125     color: ■white;  
126     padding: 5px 10px;  
127     text-decoration: none;  
128     border-radius: 4px;  
129 }  
130  
131  
132 .pagination {  
133     margin-top: 20px;  
134     text-align: center;  
135 }  
136  
137 .pagination a {  
138     color: □#333;  
139     padding: 8px 16px;  
140     text-decoration: none;  
141     border: 1px solid ■#ddd;  
142     margin: 0 2px;  
143 }  
144  
145 .pagination a.active {  
146     background-color: □#333;  
147     color: ■white;  
148     border: 1px solid □#333;  
149 }  
150  
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: " . $conn->connect_error);
19 }
20
21
22 if (isset($_GET['remove'])) {
23     $isbn = $_GET['remove'];
24
25
26     $sqlDelete = "DELETE FROM reserved_books WHERE Username='$user' AND ISBN='$isbn'";
27     mysqli_query($conn, $sqlDelete);
28
29
30     $sqlUpdate = "UPDATE Books SET Reserved = 'N' WHERE ISBN = '$isbn'";
31     mysqli_query($conn, $sqlUpdate);
32
33     echo "<p style='color:green;'>Reservation removed successfully.</p>";
34 }
35 ?>
36
37 <?php include 'libraryindex.php'; ?>
38
39 <h2>Your Reserved Books</h2>
40
41 <?php
42
43     $sql = "SELECT Books.ISBN, Books.BookTitle, Books.Author, Books.Edition, Books.Year, reserved_books.Reserv
44
45     $result = mysqli_query($conn, $sql);
46
47     if (!$result || mysqli_num_rows($result) == 0) {
48         echo "<p>You have no reserved books.</p>";
49     } else {
50         while ($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 ?>
```