**Web development 2 Assignment Document**

**Christopher Brady – C17300916 – DT228/2**

**PHP Pages used:**

**LibraryLogin.php:**

The purpose of LibraryLogin.php is to allow the user to login to their database if they already have a username and password. The page will verify the username and password entered by the user and if it matches the relevant username and password in the database it will send them to another page Home.php.

If they enter an incorrect username and password the two text boxes will reset allowing the user to try again.

This page also has a link to Register.php, in case the user has not got a username and password.

**Source Code for LibraryLogin.php:**

<?php

session\_start();

require\_once "db.php";

$msg ='';

if ( isset($\_SESSION['username'])){

header( 'Location: Home.php' );

}

else if(!empty($\_POST["username"]) && !empty($\_POST["password"]) )

{

$user = mysqli\_real\_escape\_string($db,$\_POST['username']);

$pass = mysqli\_real\_escape\_string($db,$\_POST['password']);

$sql="SELECT \* FROM users WHERE Username='".$user."'AND Password='" .$pass."' limit 1";

$result=mysqli\_query($db,$sql);

if(mysqli\_num\_rows($result)==1){

$\_SESSION["username"] = $user;

$\_SESSION["success"] = "Logged in.";

header( 'Location: Home.php' );

return;

}

else{

$msg = "Wrong Password";

header( 'Location: LibraryLogin.php' );

//return;

}

}

//$sql2="INSERT INTO currentuser(Username)VALUES ('$\_SESSION')";

?>

<html>

<head>

<title>Chris'Library</title>

<link rel="stylesheet" type="text/css" href="Library.css">

</head>

<title>Login</title>

<body>

<header>

<h1> Chris' Library Database</h1>

</header>

<div id="main">

<form class="container" action method="POST">

<div ">

<h1>Login</h1>

<?php

if ( isset($\_SESSION["error"]) ) { echo('<p style="color:red">Error:'. $\_SESSION["error"]."</p>\n"); unset($\_SESSION["error"]);

}

echo("<p>$msg</p>\n");

?>

<input type="text" placeholder="Enter Username" name="username" >

<input type="password" placeholder="Enter Password" name="password" >

<button class="button" type="submit">Login</button>

</div>

<div>

<h4>Not already signed up? <a href="Register.php">Register Now</a>

</div>

</form>

</div>

<footer>

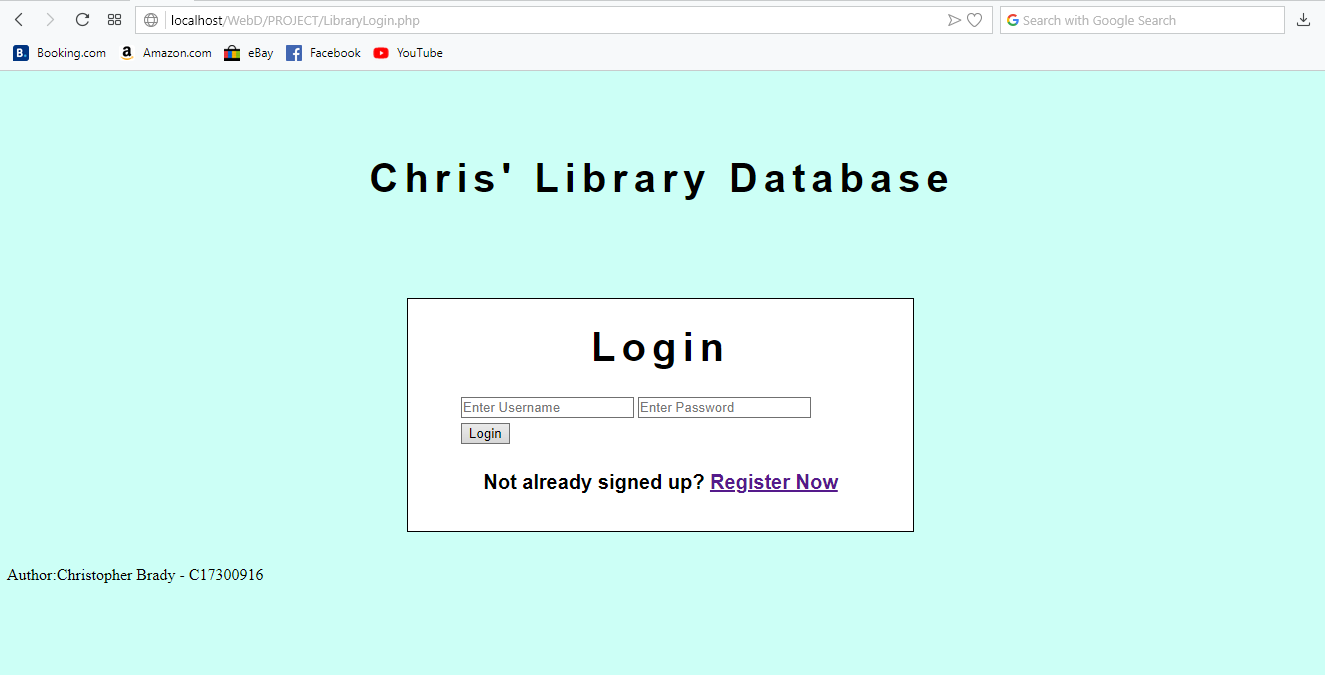
Author:Christopher Brady - C17300916

</footer>

</body>

</html>

**LibraryLogin.php Sample Screen:**



**Register.php:**

The purpose of Register.php is to allow the user to register all of their details to the database. This takes in their details and stores them in a new row in the users table in the database. Once all of the data is submitted it will return the user to login where they can enter their newly created login details.

From this page the user can also press cancel and they will return to the original LibraryLogin.php page.

**Source Code for Register.php:**

<html>

<head>

<title>Chris' Library</title>

<link rel="stylesheet" type="text/css" href="Library.css">

</head>

<header>

<h1> Chris' Library Database </h1>

</header>

<body>

<h2>Register</h2>

<form class="Register" method="post">

<p>Username:

<input type="text" name="Username"></p>

<p>Password:

<input type="password" name="Password"></p>

<p>Firstname:

<input type="text" name="Firstname"></p>

<p>Surname:

<input type="text" name="Surname"></p>

<p>AddressLine1:

<input type="text" name="AddressLine1"></p>

<p>AddressLine2:

<input type="text" name="AddressLine2"></p>

<p>City:

<input type="text" name="City"></p>

<p>Telephone:

<input type="text" name="Telephone"></p>

<p>Mobile:

<input type="text" name="Mobile"></p>

<p><input type="submit" value="Add New"/>

<a href="LibraryLogin.php">Cancel</a></p>

</form>

</body>

<footer>

Author:Christopher Brady - C17300916

</footer>

</html>

<?php

require\_once"db.php";

if ( isset($\_POST['Username']) && isset($\_POST['Password']) && isset($\_POST['Firstname']) && isset($\_POST['Surname']) && isset($\_POST['AddressLine1']) && isset($\_POST['AddressLine2']) && isset($\_POST['City']) && isset($\_POST['Telephone']) && isset($\_POST['Mobile']) ) {

$u = mysqli\_real\_escape\_string($db,$\_POST['Username']);

$p = mysqli\_real\_escape\_string($db,$\_POST['Password']);

$f = mysqli\_real\_escape\_string($db,$\_POST['Firstname']);

$s = mysqli\_real\_escape\_string($db,$\_POST['Surname']);

$a1 = mysqli\_real\_escape\_string($db,$\_POST['AddressLine1']);

$a2 = mysqli\_real\_escape\_string($db,$\_POST['AddressLine2']);

$c = mysqli\_real\_escape\_string($db,$\_POST['City']);

$t = mysqli\_real\_escape\_string($db,$\_POST['Telephone']);

$m = mysqli\_real\_escape\_string($db,$\_POST['Mobile']);

if ($u != NULL && $p != NULL && $f != NULL && $s != NULL && $a1 != NULL && $a2 != NULL && $c != NULL && $t != NULL && $m != NULL){

$sql= "INSERT INTO users (Username, Password, Firstname, Surname, AddressLine1, AddressLine2, City, Telephone, Mobile) VALUES ('$u', '$p', '$f', '$s', '$a1', '$a2', '$c', '$t', '$m')";

if ($db->query($sql) === TRUE) {

echo "New record created successfully";

} else {

echo "Error: " . $sql . "<br>" . $db->error;

}

mysqli\_query($db,$sql);

echo 'Success -<a href="LibraryLogin.php">Continue...</a>';

}

else{

echo "<b>Please insert every value</b>";

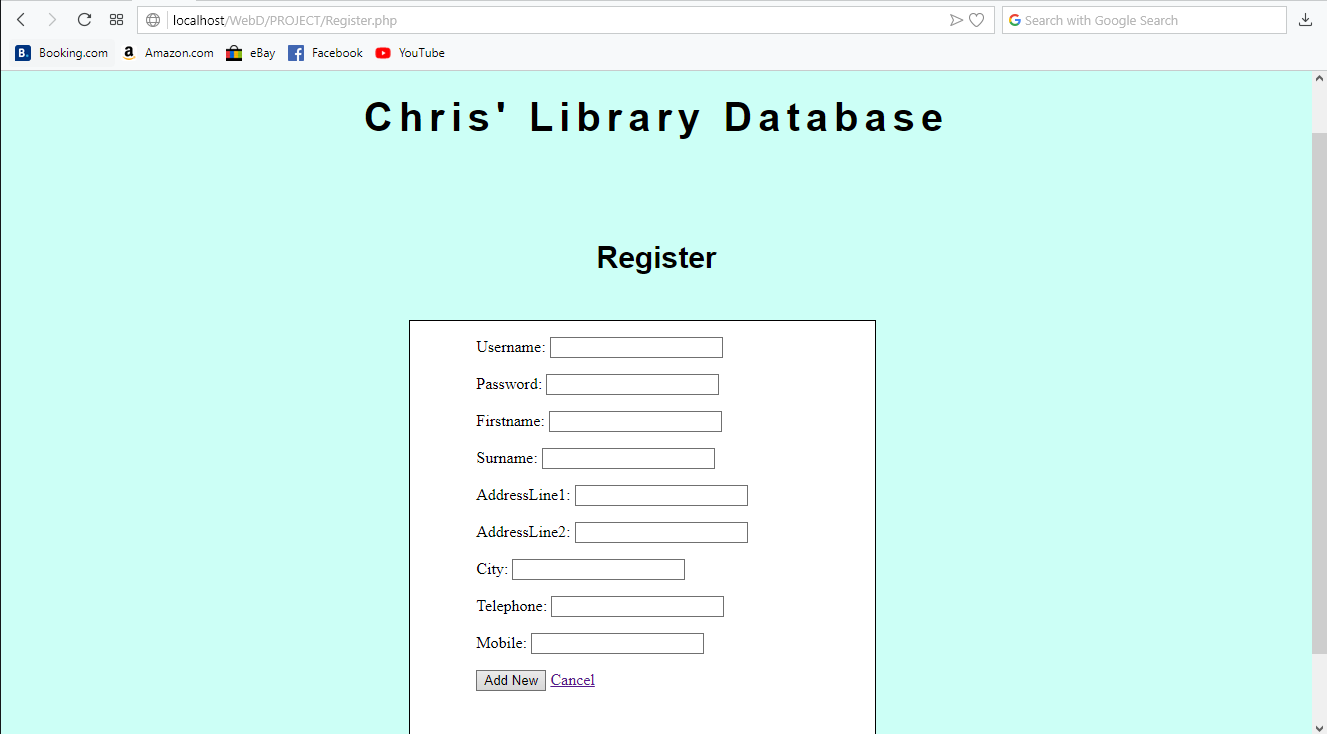
}

return;

}

?>

**LibraryLogin.php Sample Screen:**



**Home.php:**

The purpose of the Home.php page is to link the rest of the pages. The user can go to 3 different links: Search will take them to Search.php, Reserved Books will take them to ReservedBooks.php and Logout will log the user out using logout.php and return them to the LibraryLogin.php page.

This page also gives a quick description of where each link takes them and what they can do at each.

Also a user cannot access Home.php without being logged in first.

**Source Code for Home.php:**

<html>

<head>

<title>Chris' Library</title>

<link rel="stylesheet" type="text/css" href="Library.css">

</head>

<body>

<header>

<h1>Chris' Library Database</h1>

<div id="myMenu" class="menu-content">

<nav>

<ul>

<li><a href="Search.php">Search</a></li>

<li><a href="ReservedBooks.php">Reserved Books</a></li>

<li><a href="logout.php">Logout</a></li>

</ul>

</nav>

</div>

</header>

<h2>Welcome to The Library Database</h2>

<div class="intro">

<p>

<h4>Please choose one of the menu options above.</h4>

<li><b>Search</b> will allow you to find any book by category or the name of the Author/Book Title.</li>

<li><b>Reserved Books</b> will show you all of the books in which you have reserved currently and you can unreserve these if you wish.</Li>

<Li><b>Logout</b> will simply log you out.</Li>

</p>

</div>

</body>

<footer>

Author:Christopher Brady - C17300916

</footer>

</html>

<?php

session\_start();

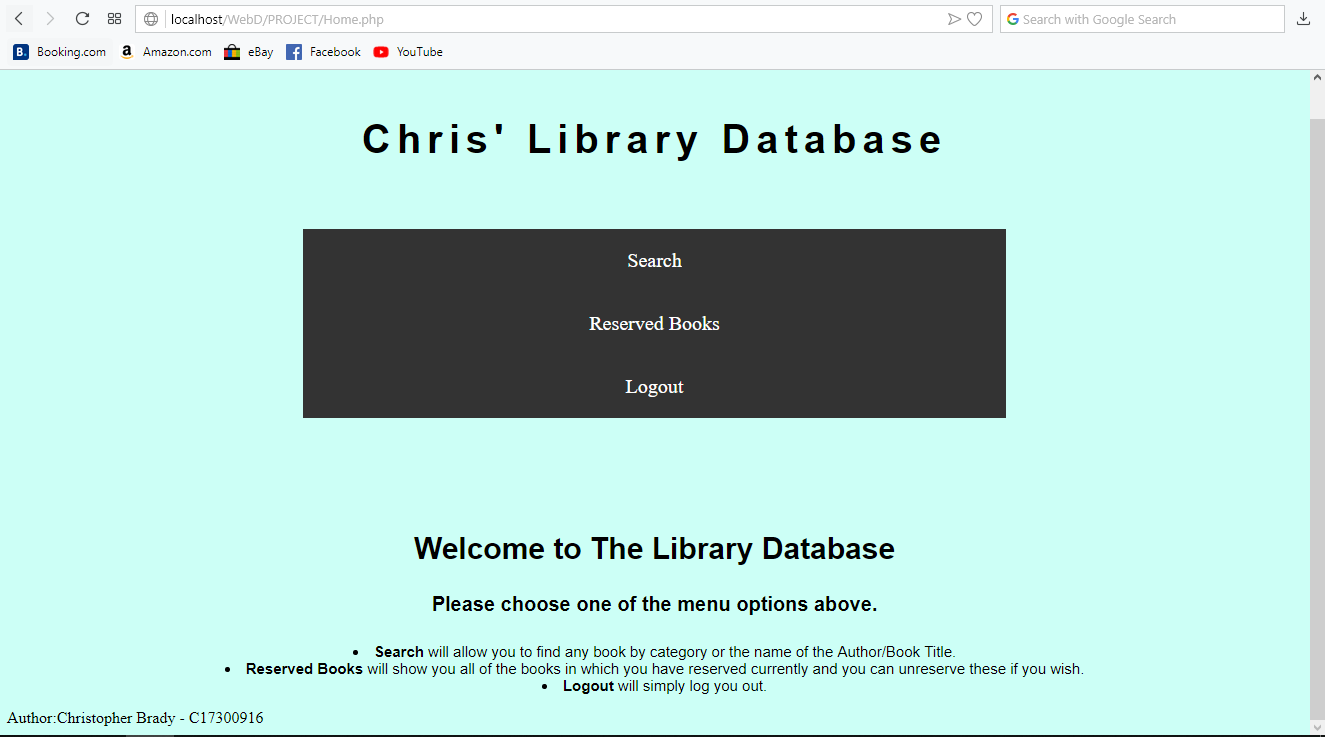
if(!isset($\_SESSION["username"])){

header("location:LibraryLogin.php");

}

?>

**Home.php Sample Screen:**



**Search.php:**

The purpose of the Search.php page is to allow the user to find any book in the database. The user can search by entering the name of the Author or Book into the searchbar and the website will display the results. The user is also able to search by category through a dropdown menu which lists all possible categories of the books which are stored in the database. Once a category is clicked, all books under this category will be displayed.

Another feature of this page is that the user can reserve any book by entering the IBSN of that book. The page does not allow a user to reserve a book that has already been reserved.

From this page you can return to the Homepage.php, or go to ReservedBooks.php or otherwise logout.php which will return the user to LibraryLogin.php. The user also cannot access this page without being logged in.

**Source Code for Search.php:**

<html>

<head>

<title>Chris' Library</title>

<link rel="stylesheet" type="text/css" href="Library.css">

</head>

<body>

<header>

<h1>Chris' Library Database</h1>

<div id="myMenu" class="menu-content">

<nav>

<ul>

<li><a href="Home.php">Home</a></li>

<li><a href="ReservedBooks.php">Reserved Books</a></li>

<li><a href="logout.php">Logout</a></li>

</ul>

</nav>

</div>

</header>

<h2>Search for a Book </h2>

<form method="post">

<p><b>Search by BookTitle/Author:</b></p>

<input type="text" name="Search">

<p><b>Search by Category:</b></p>

<select name="Category">

<option value="">All</option>

<option value="1">Health</option>

<option value="2">Business</option>

<option value="3">Biography</option>

<option value="4">Technology</option>

<option value="5">Travel</option>

<option value="6">Self-Help</option>

<option value="7">Cookery</option>

<option value="8">Fiction</option>

</select>

<p><b>Enter the ISBN of the book you would like to reserve:</b></p>

<input type="text" name="ISBN"></p>

<button type="submit">Submit</button>

</form>

</body>

</html>

<?php

session\_start();

if(!isset($\_SESSION["username"])){

header("location:LibraryLogin.php");

}

else{

require\_once"db.php";

//setting the pages for displaying more than 5 results

/\*$results\_per\_page = 5;

if (isset($\_GET["page"])) { $page = $\_GET["page"]; } else { $page=1; };

$start\_from = ($page-1) \* $results\_per\_page;\*/

$user = $\_SESSION['username'];

$N = 'N';

$i =1;

$date = date('Y-m-d H:i:s');

//To reserve a book

if ( isset($\_POST['ISBN']) ) {

$isbn = mysqli\_real\_escape\_string($db,$\_POST['ISBN']);

if ($isbn != NULL){

//checking if the book is already reserved

$checkRes = mysqli\_query($db,"SELECT Reserved FROM books where ISBN = '$isbn' limit 1");

$value = mysqli\_fetch\_object($checkRes);

//storing value of Reserved

if ($value == NULL){

echo "invalid ISBN";

}

else{

$reserved = $value->Reserved;

if ($reserved == $N){

$reservequery= mysqli\_query($db,"INSERT INTO reserved\_books (ISBN, Username, ReservedDate) values ('$isbn', '$user', '$date' )");

$changetoY = mysqli\_query($db,"UPDATE books SET Reserved = 'Y' WHERE ISBN = '$isbn'");

//getting the title of the book

$gettitle = mysqli\_query($db,"SELECT BookTitle FROM books WHERE ISBN = '$isbn'");

$value = mysqli\_fetch\_object($gettitle);

$title = $value->BookTitle;

echo "Thank You, you have now reserved $title ";

}

else {

echo "Sorry this book is reserved already";

}

}

}

}

if ( isset($\_POST['Category'])) {

$cat = mysqli\_real\_escape\_string($db,$\_POST['Category']);

//$catquery= mysqli\_query($db,"SELECT \* FROM `books` WHERE Category = '$cat' LIMIT $start\_from, ".$results\_per\_page);

//without limiting page results

$catquery= mysqli\_query($db,"SELECT \* FROM `books` WHERE Category = '$cat' ");

if ($catquery->num\_rows > 0) {

echo "<table border = 1><tr><th>ISBN</th><th>BookTitle</th><th>Author</th><th>Edition</th><th>Year</th><th>Category</th><th>Reserved</th></tr>";

while($row = $catquery ->fetch\_assoc()) {

echo "<tr><td>" . $row["ISBN"]. "</td><td>" . $row["BookTitle"]. "</td><td>" . $row["Author"]."</td><td>" . $row["Edition"]."</td><td>" . $row["Year"]. "</td><td>00" . $row["Category"]."</td><td>" . $row["Reserved"]."</td></tr>";

}

echo "</table>";

} else {

if ($cat!= NULL){

echo "0 results";}

}

}

/\*if ( $page > 1 ) {

$catquery= mysqli\_query($db,"SELECT \* FROM `books` WHERE Category = '$cat' LIMIT $start\_from, ".$results\_per\_page);

if ($catquery->num\_rows > 0) {

echo "<table border = 1><tr><th>ISBN</th><th>BookTitle</th><th>Author</th><th>Edition</th><th>Year</th><th>Category</th><th>Reserved</th></tr>";

while($row = $catquery ->fetch\_assoc()) {

echo "<tr><td>" . $row["ISBN"]. "</td><td>" . $row["BookTitle"]. "</td><td>" . $row["Author"]."</td><td>" . $row["Edition"]."</td><td>" . $row["Year"]. "</td><td>00" . $row["Category"]."</td><td>" . $row["Reserved"]."</td></tr>";

}

echo "</table>";

} else {

if ($cat!= NULL){

echo "0 results";}

}

}\*/

if ( isset($\_POST['Search'] ) ) {

$srch = mysqli\_real\_escape\_string($db,$\_POST['Search']);

//$\_SESSION['srch'] = $\_POST['Search']; //for unworking multiple pages

//$result = mysqli\_query($db,"SELECT \* FROM `books` WHERE BookTitle LIKE '%$srch%' OR AUTHOR LIKE '%$srch%'LIMIT $start\_from, ".$results\_per\_page);

//without limiting page results

$result = mysqli\_query($db,"SELECT \* FROM `books` WHERE BookTitle LIKE '%$srch%' OR AUTHOR LIKE '%$srch%'");

if ($result->num\_rows > 0 && $srch!= NULL) {

echo "<table border = 1><tr><th>ISBN</th><th>BookTitle</th><th>Author</th><th>Edition</th><th>Year</th><th>Category</th><th>Reserved</th></tr>";

// output data of each row

//displaying only 5 search items

while($row = $result ->fetch\_assoc()) {

echo "<tr><td>" . $row["ISBN"]. "</td><td>" . $row["BookTitle"]. "</td><td>" . $row["Author"]."</td><td>" . $row["Edition"]."</td><td>" . $row["Year"]. "</td><td>00" . $row["Category"]."</td><td>" . $row["Reserved"]."</td></tr>";

}

echo "</table>";

} else {

if ($srch!= NULL){

echo "0 results";}

}

}

//page2,3 printing but didnt work

/\*$srchPage = $\_SESSION['srch'];

if ($page > 1) {

$result = mysqli\_query($db,"SELECT \* FROM `books` WHERE BookTitle LIKE '%$srchPage%' OR AUTHOR LIKE '%$srchPage%'LIMIT $start\_from, ".$results\_per\_page);

if ($result->num\_rows > 0 && $srchPage!= NULL) {

echo "<table border = 1><tr><th>ISBN</th><th>BookTitle</th><th>Author</th><th>Edition</th><th>Year</th><th>Category</th><th>Reserved</th></tr>";

// output data of each row

//displaying only 5 search items

while($row = $result ->fetch\_assoc()) {

echo "<tr><td>" . $row["ISBN"]. "</td><td>" . $row["BookTitle"]. "</td><td>" . $row["Author"]."</td><td>" . $row["Edition"]."</td><td>" . $row["Year"]. "</td><td>00" . $row["Category"]."</td><td>" . $row["Reserved"]."</td></tr>";

}

echo "</table>";

} else {

if ($srchPage!= NULL){

echo "0 results";}

}

}\*/

}

?>

<?php

//====For multiple pages but doesnt work due to variable not storing search value====

/\*

$sql = "SELECT COUNT(ISBN) AS total FROM books";

$re = $db->query($sql);

$row = $re->fetch\_assoc();

$total\_pages = ceil($row["total"] / $results\_per\_page); // calculate total pages with results

for ($i=1; $i<=$total\_pages; $i++) { // print links for all pages

$page=$i;

echo "<a href='search.php?page=".$i."'";

if ($i==$page) echo " class='curPage'";

echo ">".$i."</a> ";

}; \*/

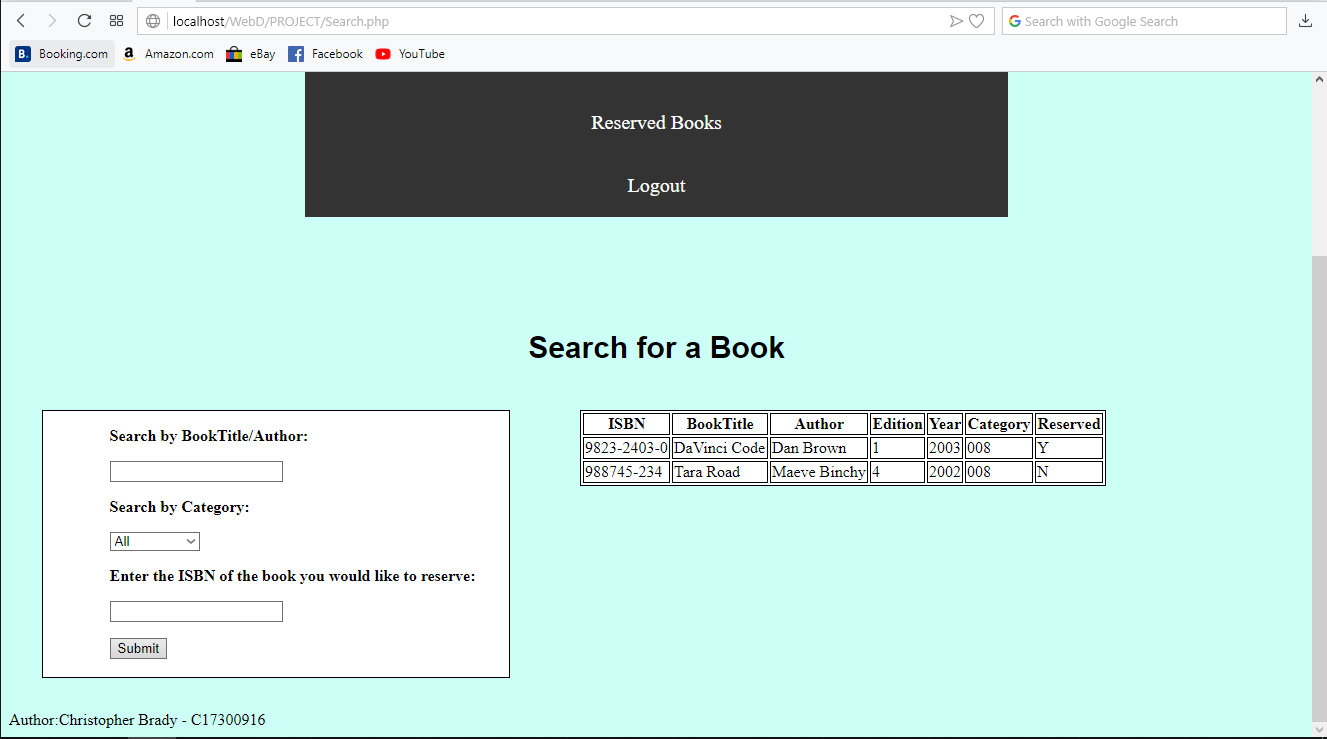
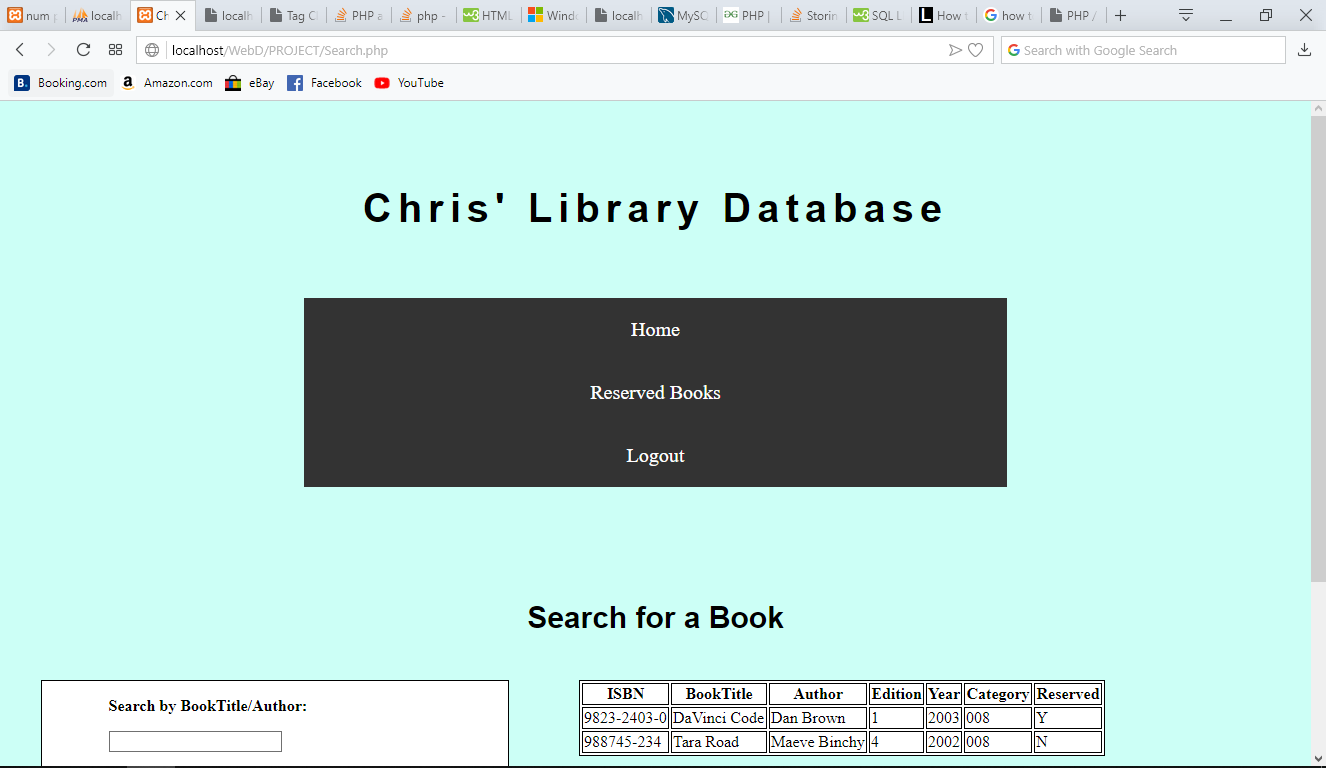
?>

<footer>

Author:Christopher Brady - C17300916

</footer>

**Search.php Sample Screen:**

****

**ReservedBooks.php:**

The ReservedBooks.php allows the user to see all of the books that they have reserved in a table. If the user does not have any books under reservation results will be displayed.

Another feature of this page is that the user can unreserved any book that they have reserved. They can do this by entering the ISBN number of the book they wish to unreserved. If the IBAN is unsuccessful the page will continue to display the reserved book until the correct IBAN is used.

From this page you can return to the Homepage.php, or go to ReservedBooks.php or otherwise logout.php which will return the user to LibraryLogin.php. The user also cannot access this page without being logged in.

**Source Code for ReservedBooks.php:**

<html>

<head>

<title>Chris' Library</title>

<link rel="stylesheet" type="text/css" href="Library.css">

</head>

<body>

<header>

<h1>Chris' Library Database</h1>

<div id="myMenu" class="menu-content">

<nav>

<ul>

<li><a href="Home.php">Home</a></li>

<li><a href="Search.php">Search</a></li>

<li><a href="logout.php">Logout</a></li>

</ul>

</nav>

</div>

</header>

<h2>Books you have Reserved</h2>

<br>

</body>

<?php

session\_start();

if(!isset($\_SESSION["username"])){

header("location:LibraryLogin.php");

}

else{

require\_once"db.php";

$user = $\_SESSION['username'];

$query = mysqli\_query($db,"select Username, ISBN, ReservedDate, BookTitle from reserved\_books join books using (ISBN) Where Username = '$user' " );

//$result = mysqli\_query($db,"SELECT \* FROM `reserved books` where Username LIKE '$user' ");

if ($query->num\_rows > 0) {

echo '<table class = "reservations" border="1">'."\n";

echo "<table border = 1><tr><th>ISBN</th><th>ReservedDate</th><th>BookTitle</th></tr>";

// output data of each row

while($row = $query->fetch\_assoc()) {

echo "<tr><td>" . $row["ISBN"]. "</td><td>" . $row["ReservedDate"]."</td><td>". $row["BookTitle"]. "</td></tr>";

}

echo "</table>";

} else {

echo "0 results";

}

if ( isset($\_POST['UnReserve']) ) {

$UR = mysqli\_real\_escape\_string($db,$\_POST['UnReserve']);

// checking if username matches reserved books

$queryN = mysqli\_query($db,"UPDATE books SET Reserved = 'N' WHERE ISBN = '$UR'");

$queryDel = mysqli\_query($db,"Delete FROM reserved\_books WHERE ISBN = '$UR'");

}

}

?>

<form class = "unreserve" method="post">

<p>Enter the ISBN of the book you would like to unreserve:

<input type="text" name="UnReserve"></p>

<button type="submit">Submit</button>

</form>

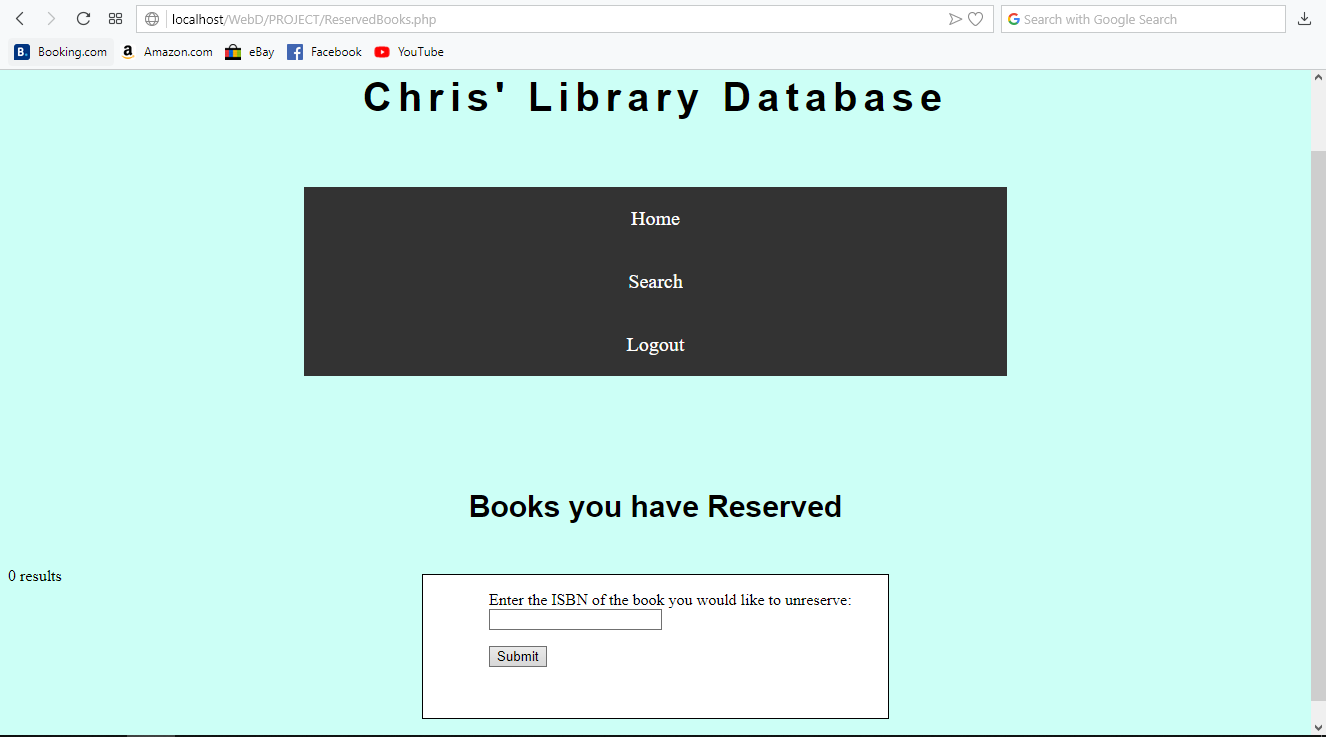
<footer>

Author:Christopher Brady - C17300916

</footer>

</html>

**ReservedBooks.php Sample Screen:**

****

**Logout.php:**

This page is never actually seen by the user but when clicked on it will sign the user out and send them back to LibraryLogin.php. It does this by using the $\_SESSION variable.

**Source Code for Logout.php:**

<?php

require\_once"db.php";

$sql="DELETE FROM currentuser";

$result=mysqli\_query($db,$sql);

session\_start();

session\_destroy();

header("location:LibraryLogin.php");

?>

**Db.php:**

This page is also never seen by the user but it is used to connect every other page to the database.

**Source Code for Db.php:**

<?php

$db = mysqli\_connect('localhost', 'root', '') or die(mysqli\_error());

mysqli\_select\_db($db,"Library") or die("could not connect");

?>

**Design Document**

**Design Plan:**

The plan for this website was to be as simple as possible for a user to use. Each page has a simple layout with a similar structure and the same heading and background used for each. The idea was mainly ease of use and simplicity. In order to achieve this I used some CSS to formulate the structure and design of each page.

This included centring tables and forms where needed in order to make the page look more simplistic. Also I adjusted fonts and sizes of text used. I also used padding and margins to achieve my goal of simplicity.

**Library.CSS source code used:**

body {

background-color: #ccfff6;

}

header {

padding:50px 16px;

}

h1 {

font-family: "Raleway", Arial, sans-serif;

font-size: 40px;

letter-spacing: 6px;

}

h1 {

text-align: center;

}

nav {

text-align: center;

border: 1px ;

padding: 20px;

font-size:20px;

}

ul {

list-style-type: none;

margin-left: 260px;

margin-right: 260px;

padding: 0;

overflow: hidden;

background-color: #333;

}

li {

float: center;

}

li a {

display: block;

color: white;

text-align: center;

padding: 20px 6px;

text-decoration: none;

}

/\* Change the link color to #111 (black) on hover \*/

li a:hover {

background-color: #111;

}

h2{

text-align: center;

font-family: "Raleway", Arial, sans-serif;

font-size: 30px;

}

form{

width: 60vh;

height: 40vh;

border: 1px solid black;

display: inline-block;

background-color: white;

padding-left: 5vw;

margin-left: 420px;

margin-right: 400px;

vertical-align: top;

margin-top:3vh;

margin-bottom: 5vh;

float: center;

}

table{

border: 1px solid black;

display: inline-block;

background-color: white;

margin-left: 5vh;

margin-right: 5vh;

vertical-align: top;

margin-top:3vh;

margin-bottom: 5vh;

float: center;

padding: 20px;

}

h4{

text-align: center;

font-family: "Raleway", Arial, sans-serif;

font-size: 20px;

}

.intro{

text-align: center;

font-family: "Raleway", Arial, sans-serif;

font-size: 15px;

}

.unreserve{

height: 20vh;

border: 1px solid black;

padding-bottom: 10px;

background-color: white;

margin-left:360px;

margin-right:360px;

vertical-align: top;

margin-top:1vh;

margin-bottom: 2vh;

float: center;

}

.Container{

width: 60vh;

height: 35vh;

border: 1px solid black;

display: inline-block;

background-color: white;

padding-left: 4vw;

padding-right: 4vw;

margin-left:400px;

margin-right: 360px;

vertical-align: top;

margin-top:3vh;

margin-bottom: 5vh;

}

title{

text-align: center;

}

.button{

margin-top: 5px;

}

.Register{

width: 60vh;

height: 70vh;

border: 1px solid black;

display: inline-block;

background-color: white;

padding-left: 5vw;

margin-left: 400px;

margin-right: 360px;

vertical-align: top;

margin-top:3vh;

margin-bottom: 1vh;

float: center;

}

td{

padding: 5px;

}