

## World Wide Book

### Website Assignment using PHP and mySQL

<http://178.62.85.76/WebSite/IndexPage.php>

My list of PHP Files :

- IndexPage.php

This is the main page where everyone viewing the website will see initially.

- login.php

This file checks the login Username and Password are correct from mySQL and if true then sends to main.php file

- loginPage.php

This is what the user see when to login which has TextFields and Login Button

- main.php

The main page one logged in

- register.php

Register file to create new user, where they are required to file in certain details such as unique username, and input address and phone number and has the user input password twice to insure the password is what they wanted and sends to the database.

- registerPage.php

UI page when they input their details which sends to the register.php page

- reserve.php

MySQL page where it retrieves from the databases all books the user has reserved, and also to unreserve the book option which deletes from the reservation database, and puts available on the books table.

- reservePage.php

This file is used to display whats it in the reservation table and show the button to unreserve.

- search.php

Retrieves search variables to retrieve from the database table books. Whatever the user inputs to search for, it has mySQL retrieval query to take back all what is same as what the user searches for.

- searchPage.php

This page is for the user, to input what he/she wishes to search by. The options are by category which are radio buttons, search by typing in the authors name or book title and also part of the name can be entered.

- searchReserve.php

This is just a mySQL file where the search.php will send the book to reserve to, this file just has the query to send to the database to that the user wants to reserve a book, and also puts unavailable on the books table so no other user can by mistake reserve that book.

- unregister.php

The unregister pages sends command to database to delete use from user the User table and also all reserve books.

- unregisterPage.php

Where the user can say click yes to be deleted from the database.

- unreserve.php

This is where if the user clicks to unreserve a book from the reservePage, it remove that reservation from the reservation table.

- view.php

Retrieves all books from database and displays it in table from.

- viewPage.php

Display the query to shows all books on the database.

- styles.css

This is the css sheets which holds the options for each div, text colour, text positions etc.

- footer.php

holds the footer text, which is copyright with my name and year

- dbConnect.php

Is included in queries to database php files to make the connection to the database.

Login Page with error checking:



The screenshot shows a web page titled "World Wide Book" with a light blue header. Below the header, there are two buttons: "Login" and "Register". To the right of these buttons is a form titled "Input Username and Password". The form contains two input fields, one for the username and one for the password. Both fields have a red asterisk (\*) next to them, indicating an error. Below the password field is a "Login" button. At the bottom of the page, there is a copyright notice: "Copyright © 1988-2014 Timothy Barnard".

## Input Username and Password

 \* \*

**Username or Password is invalid**

```
session_start(); // Starting Session

$error=''; // Variable To Store Error Message
if (isset($_POST['Submit'])) {
    if (empty($_POST['USERNAME']) || empty($_POST['PASSWORD'])) {
        $error = "Username or Password is Invalid";
    }
    else
    {
        // Define $username and $password
        $username=$_POST['USERNAME'];
        $password=$_POST['PASSWORD'];

        // Establishing Connection with Server by passing server_name, user_id and password as a parameter
        $connection = mysql_connect("localhost", "root", "root1988");

        // To protect MySQL Injection for Security purpose
        $username = stripslashes($username);
        $password = stripslashes($password);
        $username = mysql_real_escape_string($username);
        $password = mysql_real_escape_string($password);

        // Selecting Database
        $db = mysql_select_db("bookWeb", $connection);

        // SQL query to fetch information of registered users and finds user match.
        $query = mysql_query("select * from Users where Password='$password' AND Username='$username'", $connection);

        $rows = mysql_num_rows($query);

        if ($rows == 1) {
            $_SESSION['login_user']=$username; // Initializing Session
            header("location: main.php"); // Redirecting To Other Page
        } else {
            $error = "Username or Password is Invalid";
        }
        mysql_close($connection); // Closing Connection
    }
}
```

User Enters their login credentials and the information is passed to login.php file where it checks the databases to see if they are password and username are correct

**Register Form (Left):**

- Username:  \*
- Password:  \*
- Retype Password:  \*
- FirstName:  \*
- LastName:  \*
- AddressLine1:  \*
- AddressLine2:  \*
- City:  \*
- Phone No:  \*
- Mobile:
- 

**Login Form (Right):**

- Username:  \*
- Password:  \*
- Retype Password:
- FirstName:  \*
- LastName:  \*
- AddressLine1:  \*
- AddressLine2:  \*
- City:  \*
- Phone No:  \*
- Mobile:
- 

This Register Page is for the user to enter their details, and also checks to ensure they put all the required fields. If they leave any out then they are not logged in and shown where, also checks to ensure both passwords are the same.

```
<div id="mainBody">
  <h5>Input your Details</h5>
  <p><span class="error">* required field.</span></p>
  <form method="post" action="">
    Username:    <input type="text" name="USERNAME">
    <span class="error">* <?php echo $nameErr; ?></span><br>

    Password:    <input type="password" name="PASSWORD">
    <span class="error">* <?php echo $passErr; ?></span><br>
    Retype Password:<input type="password" name="PASSWORD1">
    <span class="error">*<?php echo $pass1Err; ?></span><br>

    FirstName:    <input type="text" name="FirstName">
    <span class="error">* <?php echo $firstnameErr;?></span><br>

    LastName:    <input type="text" name="LastName">
    <span class="error">* <?php echo $surnameErr;?></span><br>

    AddressLine1: <input type="text" name="AddressLine1">
    <span class="error">* <?php echo $addressErr1;?></span><br>

    AddressLine2: <input type="text" name="AddressLine2">
    <span class="error">* <?php echo $address2Err;?></span><br>

    City:        <input type="text" name="City">
    <span class="error">* <?php echo $cityErr;?></span><br>

    Phone No:    <input type="text" name="Telephone">
    <span class="error">* <?php echo $telephoneErr;?></span><br>

    Mobile:      <input type="text" name="Mobile"><br>
    <input type="submit" name="Register" value="Register"><br>
    <span><?php echo $error; ?></span>
  </form>
</div>

<div id="footer">
  <?php include 'footer.php';?>
</div>
```

# World Wide Book

Welcome colleghees

Logout

Unregister

Search

Reserve

View

**Search by Book Title**

**Search by Author**

**Search by Category**

☐ Health  
☐ Business  
☐ Biography  
☐ Travel  
☐ Self-Help  
☐ Cookery  
☐ Fiction

Please Select before Search

Copyright © 1988-2014 Timothy Bernard

```

<div id="searchBody">
  <!--<form onsubmit="return checkvalue(this)">-->
  <form action="" method="post">

    <h5>Search by Book Title</h5>
    <input type="text" name="BookTitle">

    <h5>Search by Author</h5><br>
    <input type="text" name="Author">

    <br><h5>Search by Category</h5>
    <input type="radio" name="category" value="Health" >Health<br>
    <input type="radio" name="category" value="Business">Business<br>
    <input type="radio" name="category" value="Biography">Biography<br>
    <input type="radio" name="category" value="Travel" >Travel<br>
    <input type="radio" name="category" value="Self-Help">Self-Help<br>
    <input type="radio" name="category" value="Cookery" >Cookery<br>
    <input type="radio" name="category" value="Fiction" >Fiction<br>

    <input type="submit" value="Search"><br>
    <span><?php echo $error; ?></span>
  </form>
</div>

<div id="display">
  <!--php code -->
  <?php
    $textbox1 = $_POST['BookTitle'];
    $textbox2 = $_POST['Author'];
    $textbox3 = $_POST['category'];

    if(empty($textbox1) && empty($textbox2) && empty($textbox3)){
      echo '<span id "error"> Please Select before Search</span>';
    } else {
      include('search1.php');
    }
  ?>
  <span><?php echo $error; ?></span>
</div>
  
```

The search page allows the user to search by Author , Book Title and Category, either each of them or all together. On the search page, the required books are shown and has a button to allow the user to reserve a book.

ISBN	BookTitle	Author	Edition	Year	Category	Reserve
093-403992	Computers in Business	Alicia ONeil	3	1997	3	<input type="button" value="Reserve"/>
82n8-308	Computers for Idiots	Susan ONeil	5	1998	4	<input type="button" value="Reserve"/>

Once the user clicks to reserve, and all is good, then they are sent to the reserve page where is displays all books the user has reserved.

ISBN	Username	Reserve Date	Unreserve
093-403992	collegboi	2014-11-27	<input type="button" value="Unreserve"/>

After which if the user wishes to unreserve a book, then they click unreserve, and makes the book available for any other user.

```

if(isset($_POST['unreserve']))
{
    $isbn = $_POST['isbn'];
    session_start();
    $username = $_SESSION['login_user'];
    $sql = "DELETE FROM Reservations WHERE ISBN = '$isbn'";
    // Selecting Database
    mysqli_select_db($conn, "bookWeb");
    $retval = mysqli_query($sql, $conn);
    if (!$retval) {
        //Error: Could not get data: ' - mysqli_error();
        $error = "Could not Unreserved Item";
    } else {
        mysqli_free_result($retval);
        $sql = "UPDATE Books SET Reservation = 'N' WHERE ISBN = '$isbn'";
        $retval = mysqli_query($sql);
        if (!$retval) {
            $error = "Unreserved";
        }
    }
    mysqli_free_result($retval);
    mysqli_close($conn);
}

```

There is also a view page on which display all books in the database or library, it only displays 5 books per pages which is required.

ISBN	BookTitle	Author	Edition	Year	Category	Reserved
093-403992	Computers in Business	Alicia O'Neil	3	1997	3	Available
23472-8729	Exploring Peru	Stephen Birchie	4	2005	5	Available
237-34823	Business Strategy	Joe Peppard	2	2002	2	Available
23u8-923849	A Guide to Nutrition	John Thorpe	2	1997	1	Available
2983-3494	Cooking for Children	Anabelle Sharpe	1	2003	7	Available

[Next 5 Records](#)

The first time you view, you are prompted to view the next 5 records.

ISBN	BookTitle	Author	Edition	Year	Category	Reserved
82u8-308	Computers for Idiots	Susan O'Neil	5	1998	4	Available
9823-23984	My Life in Picture	Kevin Graham	8	2004	1	Available
9823-2403-0	DaVinci Code	Dan Brown	1	2003	8	Available
9823-98345	How to Cook Italian Food	Jamie Oliver	2	2005	7	Available
9823-98487	Optimising your Business	Cleo Blair	1	2001	2	Available

[Last 5 Records](#) [Next 5 Records](#)

On the last page, it only displays last 5 records.

ISBN	BookTitle	Author	Edition	Year	Category	Reserved
98234-029384	My Ranch in Texas	George Bush	1	2005	1	Available
988745-234	Tara Road	Maeve Blinchy	4	2002	8	Available
993-004-00	My Life in bits	John Smith	1	2001	1	Available
9987-0039882	Shooting History	Jon Snow	1	2003	1	Available

[Last 5 Records](#)

```

if( $page == 0 && $rec_count > 5)
{
    echo "<a href=\"$_PHP_SELF?page=$page\">Next 5 Records</a>";
}
else if( $page < $rec_count / $rec_limit - 1)
{
    $last = $page - 2;
    echo "<a href=\"$_PHP_SELF?page=$last\">Last 5 Records</a> |";
    echo "<a href=\"$_PHP_SELF?page=$page\">Next 5 Records</a>";
}
else if( $left_rec < $rec_limit && $rec_count > 5)
{
    $last = $page - 2;
    echo "<a href=\"$_PHP_SELF?page=$last\">Last 5 Records</a>";
}

```

This piece of codes checks which of the Last 5 records or Next 5 records is shown



The database on which I created via shell has 4 tables, Users, Books, Reservations and Category.

```

16 updates are security updates.
Last login: Thu Nov 27 09:10:12 2014 from 147.252.146.254
root@bernard:~# mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 1196
Server version: 5.5.40-0ubuntu1 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use bookWeb;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> select * from Books;
+-----+-----+-----+-----+-----+-----+-----+-----+
| ISBN | BookTitle | Author | Edition | Year | Category | R | Reservation |
+-----+-----+-----+-----+-----+-----+-----+
| 093-403992 | Computers in Business | Alicia O'Neil | 3 | 1997 | 3 | N | 0 |
| 23472-8729 | Exploring Peru | Stephen Birchie | 4 | 2005 | 5 | N | 0 |
| 237-34823 | Business Strategy | Joe Peppard | 2 | 2002 | 2 | N | 0 |
| 2348-923849 | A Guide to Nutrition | John Thorpe | 2 | 1997 | 1 | N | 0 |
| 2983-3494 | Cooking for Children | Anabelle Sharpe | 1 | 2003 | 7 | N | 0 |
| 8248-308 | Computers for Idiots | Susan O'Neil | 5 | 1998 | 4 | N | 0 |
| 9823-23984 | My Life in Picture | Kevin Graham | 8 | 2004 | 1 | N | 0 |
| 9823-2403-0 | DaVinci Code | Dan Brown | 1 | 2003 | 8 | N | 0 |
| 9823-98345 | How to Cook Italian Food | Jamie Oliver | 2 | 2005 | 7 | N | 0 |
| 9823-98487 | Optimizing your Business | Chris Blair | 1 | 2001 | 2 | N | 0 |
| 98234-029384 | My Ranch in Texas | George Bush | 1 | 2005 | 1 | N | 0 |
| 988745-234 | Tara Road | Meave Blinchy | 4 | 2002 | 8 | N | 0 |
| 993-004-00 | My Life in Bits | John Smith | 1 | 2001 | 1 | N | 0 |
| 9937-0039882 | Shooting History | Jon Snow | 1 | 2003 | 1 | N | 0 |
+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)

mysql> select * from Users;
+-----+-----+-----+-----+-----+-----+-----+-----+
| Username | Password | FirstName | LastName | AddressLine1 | AddressLine2 | City | Telephone | Mobile |
+-----+-----+-----+-----+-----+-----+-----+-----+
| collegel | 1234 | Tim | J | 1 kkkk | 1 kkkk | 1 kkkk | 8778879 | 1 |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>

```

Here are just books and User tables.

Also included in my website is CSS file which includes all GUI of each div on every page ----->

```

body {
    margin: 0px;
}

#header {
    text-align: center;
    background-color: #b8e4ff;
    color: #5294ff;
    padding: 15px;
}

#nav {
    line-height: 30px;
    background-color: #ffffff;
    height: 40px;
    width: 100%;
    float: left;
    padding: 15px;
}

#mainBody {
    width: 100%;
    padding: 10px;
}

#mainBody1 {
    width: 100%;
    padding: 10px;
    color: #5294ff;
    font-family: Arial;
    font-size: 20px;
    position: absolute;
    left: 100px;
}

#searchBody {
    width: 400px;
    padding: 10px;
}

#display {
    position: absolute;
    right: 100px;
    padding: 10px;
    top: 100px;
}

#footer {
    background-color: #f2f2f4;
    color: white;
    clear: both;
    text-align: center;
    padding: 10px;
    position: relative;
    width: 100%;
    bottom: 0;
}

```

# World Wide Book

Welcome colleghei

Logout

Unregister

Search

Reserve

View

Search by Book Title

Search by Author

Search by Category

☐ Health
 ☐ Business
 ☐ Biography
 ☐ Travel
 ☐ Self Help
 ☐ Cookery
 ☐ Fiction

ISBN	BookTitle	Author	Edition	Year	Category	Reserve
093-403992	Computers in Business	Alicia ONeil	3	1997	3	Unavailable
82n8-308	Computers for Idiots	Susan ONeil	5	1998	4	<input type="button" value="Reserve"/>

If the user reserves a book, then it becomes unavailable to anyone else. If the user Unreserve's the book, then it becomes available again.

ISBN	BookTitle	Author	Edition	Year	Category	Reserve
093-403992	Computers in Business	Alicia ONeil	3	1997	3	<input type="button" value="Reserve"/>
82n8-308	Computers for Idiots	Susan ONeil	5	1998	4	<input type="button" value="Reserve"/>

\

Also my website allows the user to unregister, which deletes their account. If they have books reserved, a message is display for them to unreserve the books first, just incase the user is not aware of this .

Are you sure you wish to Deactivate your account:

collegboi

Please Unreserve all Books Before Deleting Account

After which they can delete their account if they wish.

## CODE

The main index page:

```
<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>

<link rel="stylesheet" href="styles.css">
</head>

<body>
  <div id="header">
    <a href="IndexPage.php"></a>
  </div>

  <div id="nav">
    <a href="loginPage.php"></a><br>
    <a href="Registerpage.php"></a><br>
  </div>

  <div id="mainBody1">
    <p>Please Login to View, Search, Reserve Books</p>
    <p>Click Register if you do not have an account!</p>
  </div>

  <div id="footer">
    <?php include 'footer.php';?>

  </div>

</body>
</html>
```

## Register PHP:

```
<?php

//setting error checking messages
$nameErr = $passErr = $addressErr1 = $address2Err = "";
$firstnameErr = $surnameErr = $cityErr = $telephoneErr = $pass1Err = "";

session_start(); // Starting Session
$error=""; // Variable To Store Error Message

if (isset($_POST['Register'])) {

    $password = $_POST['PASSWORD'];
    $password2 = $_POST['PASSWORD1'];

    //error checking to make sure no empty spaces is inputted
    if (empty($_POST['USERNAME'])) {
        $nameErr = "Name is required";
    }
    //password
    if(empty($_POST['PASSWORD'])) {
        $passErr = "Password is required";
    }
    if (strcmp($password, $password2) != 0) {
        $pass1Err = "Passwords Do Not Match";
    }
    //firstname
    if(empty($_POST['FirstName'])) {
        $firstnameErr = "FirstName is required";
    }

    //lastname
    if(empty($_POST['LastName'])) {
```

```
        $surnameErr = "Surname is required";
    }
    //addressline1
    if(empty($_POST['AddressLine1'])) {
        $addressErr1 = "Address Line 1 is required";
    }
    //addressline2
    if(empty($_POST['AddressLine2'])) {
        $address2Err = "Address Line 2 is required";
    }
    //city
    if(empty($_POST['City'])) {
        $cityErr = "City is required";
    }
    //telephone
    if(empty($_POST['Telephone'])) {
        $telephoneErr = "Telephone is required";
    }

    else {

        $username = $_POST['USERNAME'];
        $password = $_POST['PASSWORD'];
        $Fistname = $_POST['FirstName'];
        $Lastname = $_POST['SurName'];
        $address1 = $_POST['AddressLine1'];
        $address1 = $_POST['AddressLine1'];
        $address2 = $_POST['AddressLine2'];
        $city = $_POST['City'];
        $telephone = $_POST['Telephone'];
        $mobile = $_POST['Mobile'];
```

```
// Establishing Connection with Server by passing server_name, user_id and
password as a parameter
$connection = mysql_connect("localhost", "root", "root1988");

//SQL query to fetch information of registered users and finds user match.
$sql = "INSERT INTO Users (Username, Password, FirstName, LastName,
AddressLine1, AddressLine2, City, Telephone, Mobile) VALUES ('$username', '$password',
'$Fistname', '$Lastname', '$address1', '$address2', '$city',
'$telephone', '$mobile')";

// Selecting Database
$db = mysql_select_db("bookWeb", $connection);

$retval = mysql_query($sql, $connection);

if(! $retval) {

    die('Could not Add User: '. mysql_error());
}
else {

    header("location: main.php");

    mysql_close($connection);
}
}
?>
```

## Login PHP

```
<?php
session_start(); // Starting Session
$error=""; // Variable To Store Error Message
if (isset($_POST['Submit'])) {
    if (empty($_POST['USERNAME']) || empty($_POST['PASSWORD'])) {
        $error = "Username or Password is invalid";
    }
    else
    {
        // Define $username and $password
        $username=$_POST['USERNAME'];
        $password=$_POST['PASSWORD'];

        // Establishing Connection with Server by passing server_name, user_id and
password as a parameter
        $connection = mysql_connect("localhost", "root", "root1988");

        // To protect MySQL injection for Security purpose
        $username = stripslashes($username);
        $password = stripslashes($password);
        $username = mysql_real_escape_string($username);
        $password = mysql_real_escape_string($password);

        // Selecting Database
        $db = mysql_select_db("bookWeb", $connection);
```



```
// SQL query to fetch information of registered users and finds user match.  
$query = mysql_query("select * from Users where Password='$password'  
AND Username='$username'", $connection);
```

```
$rows = mysql_num_rows($query);
```

```
if ($rows == 1) {
```

```
    $_SESSION['login_user']=$username; // Initializing Session
```

```
    header("location: main.php"); // Redirecting To Other Page
```

```
} else {
```

```
    $error = "Username or Password is invalid";
```

```
}
```

```
mysql_close($connection); // Closing Connection
```

```
}
```

```
}
```

```
?>
```

## Search Page:

```
<?php
//include('search.php');
?>

<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>
//linking styles sheet
<link rel="stylesheet" href="styles.css">
<script>
    function checkvalue() {
        var mystring = document.getElementById('BookName').value;
        if(!mystring.match(/^\S/)) {
            alert ('Empty value is not allowed');
            return false;
        } else {
            alert("correct input");
            return true;
        }
    }
</script>
</head>
<body>
    <div id="header">
        <a href="main.php"></a>
        <div id = "user">
            <?php
                session_start(); // Starting Session
                $username = $_SESSION['login_user'];
                echo("Welcome ".$username) ?>
```

```
</div>
</div>
```

```
<div id="nav">
  <a href="loginPage.php"></a><br>
  <a href="unregisterPage.php"></a><br>
  <a href="Searchpage.php"></a><br>
  <a href="reservePage.php"></a><br>
  <a href="Viewpage.php"></a><br>
</div>
```

```
<div id="searchBody">
```

```
<!--<form onsubmit="return checkvalue(this)"-->
<form action="" method="post">
```

```
<h5>Search by Book Title</h5>
  <input type="text" name="BookTitle">
```

```
<h5>Search by Author</h5><br>
  <input type="text" name="Author">
```

```
<br><h5>Search by Category</h5>
19 of 55
```

```

        <input type="radio" name="category" value="Health"
>Health<br>
        <input type="radio" name="category"
value="Business">Business<br>
        <input type="radio" name="category"
value="Biography">Biography<br>
        <input type="radio" name="category" value="Travel"
>Travel<br>
        <input type="radio" name="category" value="Self-Help">Self-
Help<br>
        <input type="radio" name="category" value="Cookery"
>Cookery<br>
        <input type="radio" name="category" value="Fiction"
>Fiction<br>

```

```

        <input type="submit" value="Search"><br>
        <span>?php echo $error; ?</span>
    </form>
</div>

<div id="display">
    <!--php code -->
    <?php
        $textbox1 = $_POST['BookTitle'];
        $textbox2 = $_POST['Author'];
        $textbox3 = $_POST['category'];

        if(empty($textbox1) && empty($textbox2) && empty($textbox3)){
            echo '<span id "error"> Please Select before Search</span>';
        } else {
            include('search1.php');
        }
    ?>

```

```
<span><?php echo $error; ?></span>
```

```
</div>
```

```
<div id="footer">
```

```
<?php include 'footer.php';?>
```

```
</div>
```

```
</body>
```

```
</html>
```

## Reserve Page:

```
<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>

<link rel="stylesheet" href="styles.css">
</head>

<body>
  <div id="header">
    <a href="main.php"></a>
    <div id = "user">
      <?php
        session_start(); // Starting Session
        $username = $_SESSION['login_user'];
        echo("Welcome ".$username); ?>
    </div>
  </div>

  <div id="nav">
    <a href="loginPage.php"></a><br>
    <a href="unregisterPage.php"></a><br>
    <a href="Searchpage.php"></a><br>
    <a href="reservePage.php"></a><br>
    <a href="Viewpage.php"></a><br>

  </div>

  <div id="mainBody">
    <?php include 'reserve.php';?>
```

```
<span class="error"><?php echo $error; ?></span><br>
<span class="error"><?php echo $errorMessage; ?></span><br>
</div>
```

```
<div id="footer">
    <?php include 'footer.php';?>
</div>
```

```
</body>
```

```
</html>
```

## Search PHP

```
<?php
include("searchReserve.php");
?>
<?php

session_start();
$username = $_SESSION['login_user'];
$date = date('Y-m-d');

$error=""; // Variable To Store Error Message
$dbhost = 'localhost';
$dbuser = 'root';
$dbpass = 'root1988';

$rec_limit = 5;

$conn = mysql_connect($dbhost, $dbuser, $dbpass);
if(! $conn ) {
    die('Could not connect: ' . mysql_error());
}

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

    if(isset($_POST['Author'])){

        $search = $_POST['Author'];

        $sql = "SELECT * FROM Books WHERE Author LIKE '%$search%'";
```



```
mysql_select_db('bookWeb');

$retval = mysql_query($sql);

if(! $retval) {

    $error = "No Author Found";
} else {

    echo '<table border = "0" width = "600px">'. "\n";
    echo '<tr bgcolor="#b2fbff">';
    echo "<th>ISBN</th>";
    echo "<th>BookTitle</th>";
    echo "<th>Author</th>";
    echo "<th>Edition</th>";
    echo "<th>Year</th>";
    echo "<th>Category</th>";
    echo "<th>Reserved</th>";

    while($row = mysql_fetch_row($retval)) {
        echo "<tr><td>";
        echo ($row[0]);
        $ISBN = $row[0];
        echo "</td><td>";
        echo ($row[1]);
        echo "</td><td>";
        echo ($row[2]);
        echo "</td><td>";
        echo ($row[3]);
        echo "</td><td>";
        echo ($row[4]);
        echo "</td><td>";
        echo ($row[5]);
        echo "</td><td>";
```

```

        if($row[6] == 'Y') {
            echo("Unavailable");
        } else {
            //echo ($row[6]);
            ?>

            <form action="" method="post">
            <input type="hidden" value="<?php echo
$ISBN; ?>" name="ISBN">

            <input type="submit" name="Reserve"
value="Reserve">

            </form>

            <?php
        }
        echo("</td></tr>\n");
    }
    echo("</table>\n");

}

}

```

```

if(isset($_POST['BookTitle'])) {

```

```

    $search = $_POST['BookTitle'];

```

```

    //GET NUMBER OF BOOKS FROM DATABASE WITH CONDITON

```

```

    $sql = "SELECT * FROM Books WHERE BookTitle LIKE '%$search%'";

```

```

    mysql_select_db('bookWeb');

```

```

    $retval = mysql_query($sql1);

```

```

    //checking to see if book is found

```

```

    if(!$retval) {

```

```
$error = "No Book Found" ;  
  
}  
else {  
  
    echo '<table border = "0" width = "600px">'. "\n";  
    echo '<tr bgcolor="#b2fbff">';  
    echo "<th>ISBN</th>";  
    echo "<th>BookTitle</th>";  
    echo "<th>Author</th>";  
    echo "<th>Edition</th>";  
    echo "<th>Year</th>";  
    echo "<th>Category</th>";  
    echo "<th>Reserved</th>";  
  
    while($row = mysql_fetch_row($retval)) {  
        echo "<tr><td>";  
        echo ($row[0]);  
        $ISBN = $row[0];  
        echo "</td><td>";  
        echo ($row[1]);  
        echo "</td><td>";  
        echo ($row[2]);  
        echo "</td><td>";  
        echo ($row[3]);  
        echo "</td><td>";  
        echo ($row[4]);  
        echo "</td><td>";  
        echo ($row[5]);  
        echo "</td><td>";  
        if($row[6] == 'Y') {  
            echo("Unavailable");  
        } else {  
            //echo ($row[6]);  
            ?>  
  
            <form action="" method="post">  
                27 of 55
```

```

        <input type="hidden" value="<?php echo
$ISBN; ?>" name="ISBN">

        <input type="submit" name="Reserve"
value="Reserve">

        </form>

        <?php
        }
        echo("</td></tr>\n");
    }
    echo("</table>\n");

}
//-----
    if($page == 0 && $rec_count > 5 )
    {
        echo "<a href=\"$_PHP_SELF?page=$page\">Next 5
Records</a>";
    }
    else if( $page < $rec_count / $rec_limit - 1)
    {
        $last = $page - 2;
        echo "<a href=\"$_PHP_SELF?page=$last\">Last 5 Records</
a> |";

        echo "<a href=\"$_PHP_SELF?page=$page\">Next 5
Records</a>";
    }
    else if( $left_rec < $rec_limit && $rec_count > 5 )
    {
        $last = $page - 2;
        echo "<a href=\"$_PHP_SELF?page=$last\">Last 5 Records</
a>";
    }

}

```

```
if(isset($_POST['category'])) {

    $search = $_POST['category'];

    $sql1 = "select * from Catagories where CategoryDesc = '$search'";

    mysql_select_db('bookWeb');

    $retval1 = mysql_query($sql1);

    $catID = mysql_fetch_row($retval1);

    $sql = "SELECT * FROM Books WHERE CategoryID = '$catID[0]'";

    mysql_select_db('bookWeb');

    $retval = mysql_query($sql);

    //checking to see if book is found
    if(!$retval) {
        $error = "No Book Found" ;
    }
    else {

        echo '<table border = "0" width = "600px">'. "\n";
        echo '<tr bgcolor="#b2fbff">';
        echo "<th>ISBN</th>";
        echo "<th>BookTitle</th>";
        echo "<th>Author</th>";
        echo "<th>Edition</th>";
        echo "<th>Year</th>";
        echo "<th>Category</th>";
        echo "<th>Reserved</th>";
```

```
while($row = mysql_fetch_row($retval)) {
    echo "<tr><td>";
    echo ($row[0]);
    $ISBN = $row[0];
    echo "</td><td>";
    echo ($row[1]);
    echo "</td><td>";
    echo ($row[2]);
    echo "</td><td>";
    echo ($row[3]);
    echo "</td><td>";
    echo ($row[4]);
    echo "</td><td>";
    echo ($row[5]);
    echo "</td><td>";
    if($row[6] == 'Y') {
        echo("Unavailable");
    } else {
        //echo ($row[6]);
        ?>
        <form action="" method="post">
        <input type="hidden" value="<?php echo $ISBN; ?>" name="ISBN">
        <input type="submit" name="Reserve" value="Reserve">
        </form>
        <?php
    }
    echo("</td></tr>\n");
}
echo("</table>\n");

//pagination checks

mysql_select_db('bookWeb');
```

```
$sql = "SELECT * FROM Books WHERE CategoryID = '$catID[0]'";
```

```
$retval = mysql_query($sql);
```

```
$num_row = mysql_num_rows($retval);
```

```
$rec_count = $num_row;
```

```
//pagination checks
```

```
if($page == 0 && $rec_count > 5 )
```

```
{
```

```
    echo "<a href='$_PHP_SELF?page=$page'>Next 5
```

```
Records</a>";
```

```
}
```

```
else if( $page < $rec_count / $rec_limit - 1)
```

```
{
```

```
    $last = $page - 2;
```

```
    echo "<a href='$_PHP_SELF?page=$last'>Last 5 Records</
```

```
a> |";
```

```
    echo "<a href='$_PHP_SELF?page=$page'>Next 5 Records</a>";
```

```
}
```

```
else if( $left_rec < $rec_limit && $rec_count > 5 )
```

```
{
```

```
    $last = $page - 2;
```

```
    echo "<a href='$_PHP_SELF?page=$last'>Last 5 Records</a>";
```

```
}
```

```
}
```

```
}
```

```
}
```

```
//mysql_free_result($retval);
```

```
mysql_close($conn);
```

```
?>
```

### Reserve Page:

```
<?php
include('unreserve.php');
?>

<?php
echo '<table border = "0" width = "600px">!. "\n";
echo '<tr bgcolor="#b2fbff">';

$dbhost = 'localhost';
$dbuser = 'root';
$dbpass = 'root1988';
$errorMess = "";
$ISBN = "";
$conn = mysql_connect($dbhost, $dbuser, $dbpass);
if(! $conn ) {
    die('Could not connect: ' . mysql_error());
}

    session_start();
    $username = $_SESSION['login_user'];

    $sql = "SELECT * FROM Reservations WHERE Username = '$username'";

    // Selecting Database
    mysql_select_db("bookWeb");

    $retval = mysql_query($sql, $conn);

    $rows = mysql_num_rows($retval);

    if( $rows == 0) {
        //die('Could not get data: ' . mysql_error());
    }
}
```



```

$errorMess = "No Reservations Found";
} else {
    echo("<th>ISBN    </th>");
    echo("<th>  Username  </th>");
    echo("<th>  Reserve Date</th>");
    echo("<th>Unreserve</th>");

    while($row = mysql_fetch_row($retval)) {
        echo "<tr><td>";
        echo ($row[0]);
        $ISBN = $row[0];
        echo "</td><td>";
        echo ($row[1]);
        echo "</td><td>";
        echo ($row[2]);
        echo "</td><td>";
        ?>
        <form action="" method="post">
        <input type="hidden" value="<?php echo $ISBN; ?>" name="ISBN">
            <input type="submit" name="Unreserve" value="Unreserve">
        </form>
        <?php
        echo "</td></tr>";
    }
    echo "</table>\n";
    ?>
    <span class="error"> <?php echo($errorMess); ?> </span>
    <?php
    }
    mysql_free_result($retval);
    mysql_close($conn);

```

?>

**DBConnect :**

```
<?php
```

```
//php page for login into root database
```

```
$dbhost = 'localhost:8888'
```

```
$dbusername = 'root';
```

```
$dbpassword = 'root';
```

```
$connect = mysql_connect($dbhost, $dbusername, $dbpassword);
```

```
if(! $connect) {
```

```
    echo ('Error in Connection'.mysql_error());
```

```
}
```

```
?>
```

## Register Page

```
<?php
include('register.php'); // Includes Login
?>
<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>

<link rel="stylesheet" href="styles.css">
<style >
</style>
</head>

<body>
    <div id="header">
        <a href="IndexPage.php"></a>
    </div>

    <div id="nav">
        <a href="loginPage.php"></a><br>
        <a href="Registerpage.php"></a><br>
    </div>
    //div contain for where user inputs details to register
    <div id="mainBody">
        <h5>Input your Details</h5>
        <p><span class="error">* required field.</span></p>
        <form method="post" action="">
            Username:      <input type="text" name="USERNAME">
            <span class="error">* <?php echo $nameErr; ?></span><br>

            Password:      <input type="password" name="PASSWORD">
35 of 55
```

```
<span class="error">* <?php echo $passErr;?></span><br>
Retype Password:<input type="password" name="PASSWORD1">
<span class="error">* <?php echo $pass1Err; ?></span><br>
```

```
FirstName:      <input type="text" name="FirstName">
<span class="error">* <?php echo $firstnameErr;?></span><br>
```

```
LastName:      <input type="text" name="LastName">
<span class="error">* <?php echo $surameErr;?></span><br>
```

```
AddressLine1:   <input type="text" name="AddressLine1">
<span class="error">* <?php echo $addressErr1;?></span><br>
```

```
AddressLine2:   <input type="text" name="AddressLine2">
<span class="error">* <?php echo $address2Err;?></span><br>
```

```
City:          <input type="text" name="City">
<span class="error">* <?php echo $cityErr;?></span><br>
```

```
Phone No:      <input type="text" name="Telephone">
<span class="error">* <?php echo $telephoneErr;?></span><br>
```

```
Mobile:        <input type="text" name="Mobile"><br>
<input type="submit" name="Register" value="Register"><br>
<span><?php echo $error; ?></span>
</form>
```

```
</div>
```

```
<div id="footer">
    <?php include 'footer.php';?>
</div>
```

```
</body>
```

```
</html>
```

## Unregister PHP

```
<?php
```

```
if(isset($_POST['Submit'])) {

    $error = "";
    $dbserver = 'localhost';
    $dbuser = 'root';
    $dbpass = 'root1988';

    $connect = mysql_connect($dbserver, $dbuser, $dbpass);

    if(! $connect) {
        die("Could not connect".mysql_error());
    }

    session_start();
    $username = $_SESSION['login_user'];

    $sql = "SELECT * FROM Reservations WHERE Username = '$username'";

    mysql_select_db('bookWeb');

    $retval = mysql_query($sql, $connect);

    $row = mysql_num_rows($retval);

    if($row > 0) {
        $error = "Please Unreserve all Books Before Deleting Account";
    } else {

        $sql3 = "DELETE FROM Users WHERE Username = '$username'";
```

```
mysql_select_db('bookWeb');

$retval3 = mysql_query($sql3, $connect);

if($retval3) {
    header("location: IndexPage.php");
} else {
    $error = "Could not Deactivate your Account";
}
}

mysql_free_result($retval);
mysql_free_result($retval3);
mysql_close($connection); // Closing Connection
} //if isset unregister account
```

?>

## Unreserve Page

```
<?php
```

```
$dbhost = 'localhost';
```

```
$dbuser = 'root';
```

```
$dbpass = 'root1988';
```

```
$error = "";
```

```
$conn = mysql_connect($dbhost, $dbuser, $dbpass);
```

```
if(! $conn ) {
```

```
    die('Could not connect: ' . mysql_error());
```

```
}
```

```
if(isset($_POST['Unreserve']))
```

```
{
```

```
    $ISBN = $_POST['ISBN'];
```

```
    session_start();
```

```
    $username = $_SESSION['login_user'];
```

```
    $sql = "DELETE FROM Reservations WHERE ISBN = '$ISBN'";
```

```
    // Selecting Database
```

```
    mysql_select_db("bookWeb");
```

```
    $retval = mysql_query($sql, $conn);
```

```
    if( !$retval ) {
```

```
        //die('Could not get data: ' . mysql_error());
```

```
        $error = "Could not Unreserved Item";
```

```
} else {  
    mysql_free_result($retval);  
  
    $sql = "UPDATE Books SET Reservation = 'N' WHERE ISBN = '$ISBN'";  
    $retval = mysql_query($sql);  
    if($retval) {  
        $error = "Unreserved";  
    }  
}  
  
mysql_free_result($retval);  
mysql_close($conn);  
}  
  
?>
```



## Unregister Page

```
<?php
include('unregister.php'); // Includes Login
?>

<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>

<link rel="stylesheet" href="styles.css">
</head>

<body>
    <div id="header">
        <a href="main.php"></a>
        <div id = "user">
            <?php
                session_start(); // Starting Session
                $username = $_SESSION['login_user'];
                echo("Welcome ".$username) ?>
        </div>
    </div>
    <div id="nav">
        <a href="loginPage.php"></a><br>
        <a href="unregisterPage.php"></a><br>
        <a href="Searchpage.php"></a><br>
        <a href="reservePage.php"></a><br>
        <a href="Viewpage.php"></a><br>
    </div>
```

```
<div id="mainBody">
    <h5>Are you sure you wish to Deactivate your account: </h5>
    <?php $username = $_SESSION["login_user"]; echo($username);?>
    <form method="post" action="">
        <p><input type="submit" name="Submit" value="Yes"></p>
        <span><?php echo $error; ?></span>
    </form>
</div>

<div id="footer">
    <?php include 'footer.php';?>

</div>

</body>
</html>
```

## Search Reserve PHP

```
<?php
session_start();
$username = $_SESSION['login_user'];

$dbhost = 'localhost';
$dbuser = 'root';
$dbpass = 'root1988';
$conn = mysql_connect($dbhost, $dbuser, $dbpass);

if(! $conn ) {
    die('Could not connect: ' . mysql_error());
}

mysql_select_db('bookWeb');

$date = date('Y-m-d');

if(isset($_POST['Reserve'])) {
    $error = "";

    $ISBN = $_POST['ISBN'];

    $sql = "INSERT INTO Reservations(ISBN, Username, RervationDate)
VALUES ('$ISBN', '$username', '$date')";

    $retreval = mysql_query($sql);

    if(! $retreval) {
        $error = "Could not Enter Data";
    }
}
```

```
    } else {

        $sql1 = "UPDATE Books SET Reservation = 'Y' WHERE ISBN = '$ISBN'";
        $retreval2 = mysql_query($sql1);
        //checks if true then sends to php page
        if($retreval2) {
            header("location: reservePage.php");
        } else {
            $error = "Could not Enter Data";
        }
    }
}

mysql_free_result($retval);
mysql_free_result($retval2);

mysql_close($conn);

?>
```

[View PHP](#)

```
<?php
echo '<table border = "0" width = "1000px">'. "\n";
echo '<tr bgcolor="#b2fbff">';
$dbhost = 'localhost';
$dbuser = 'root';
$dbpass = 'root1988';
$rec_limit = 5;

$conn = mysql_connect($dbhost, $dbuser, $dbpass);

if(! $conn ) {
    die('Could not connect: ' . mysql_error());
}

mysql_select_db('bookWeb');

$sql = "SELECT * FROM Books";

$retval = mysql_query($sql);

$num_row = mysql_num_rows($retval);

$rec_count = $num_row;

if( isset($_GET{'page'}) ) )
{
    $page = $_GET{'page'} + 1;
    $offset = $rec_limit * $page;
}
else
{
    //resets values
```

```
$page = 0;  
$offset = 0;  
}
```

```
$left_rec = $rec_count - $offset;
```

```
$sql = "SELECT * from Books LIMIT $offset, $rec_limit";
```

```
$retval = mysql_query($sql);
```

```
if(! $retval ) {  
    die('Could not get data: ' . mysql_error());  
}
```

```
echo "<th>ISBN</th>";  
echo "<th>BookTitle</th>";  
echo "<th>Author</th>";  
echo "<th>Edition</th>";  
echo "<th>Year</th>";  
echo "<th>Category</th>";  
echo "<th>Reserved</th>";
```

```
while($row = mysql_fetch_row($retval)) {  
    echo "<tr><td>";  
    echo ($row[0]);  
    echo "</td><td>";  
    echo ($row[1]);  
    echo "</td><td>";  
    echo ($row[2]);  
    echo "</td><td>";  
    echo ($row[3]);  
    echo "</td><td>";  
    echo ($row[4]);  
    echo "</td><td>";  
    echo ($row[5]);
```

```
        echo "</td><td>";
        if($row[6] == 'Y') {
            //echo("Unavailable");
            echo '<span class = "error">Unavailable</span>';
        } else {
            echo("Available");
        }
        //echo ($row[6]);
        echo "</tr>\n";
    }
    echo "</table>\n";

    if( $page == 0 )
    {
        echo "<a href=\"$_PHP_SELF?page=$page\">Next 5 Records</a>";
    }
    else if( $page < $rec_count / $rec_limit - 1)
    {
        $last = $page - 2;
        echo "<a href=\"$_PHP_SELF?page=$last\">Last 5 Records</a> |";
        echo "<a href=\"$_PHP_SELF?page=$page\">Next 5 Records</a>";
    }
    else if( $left_rec < $rec_limit )
    {
        $last = $page - 2;
        echo "<a href=\"$_PHP_SELF?page=$last\">Last 5 Records</a>";
    }
    //echo "Fetched data successfully\n";

    mysql_free_result($retval);
    mysql_close($conn);
?>
```

## Main Page

```
<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>

<link rel="stylesheet" href="styles.css">
</head>

<body>
  <div id="header">
    <a href="main.php"></a>
    <div id = "user">
      <?php
        session_start(); // Starting Session
        $username = $_SESSION['login_user'];
        echo("Welcome ".$username) ?>
    </div>
  </div>

  <div id="nav">
    <a href="loginPage.php"></a><br>
    <a href="unregisterPage.php"></a><br>
    <a href="Searchpage.php"></a><br>
    <a href="reservePage.php"></a><br>
    <a href="Viewpage.php"></a><br>
  </div>
```



```
<div id="mainBody1">
    World Wide Book<br>
    Address :<br>
    Phoenix Park<br>
    Dublin 15<br>
    Phone No:</p>
    01-12121212<br>
    Email Address:</p>
    worldwidebook@mybook.ie<br>
</div>
```

```
<div id="footer">
    <?php include 'footer.php';?>

</div>
```

```
</body>
</html>
```

## Login Page

```
<?php
include('login.php'); // Includes Login
?>
<!DOCTYPE html>
<html>
<head>
<title>My Book Website</title>

<link rel="stylesheet" href="styles.css">
</head>

<body>
    <div id="header">
        <a href="IndexPage.php"></a>
    </div>

    <div id="nav">
        <a href="loginPage.php"></a><br>
        <a href="Registerpage.php"></a><br>
    </div>

    <div id="mainBody">
        <h5>Input Username and Password</h5>
        <form method="post" action="">
            <input type="text" name="USERNAME"><span class="error">*</span><br>
            <input type="password" name="PASSWORD"><span class="error">*</
span><br>
            <input type="submit" name="Submit" value="Login"><br>
            <span class="error"><?php echo $error; ?></span>
        </form>
    </div>
```

```
<div id="footer">  
    <?php include 'footer.php';?>  
</div>
```

```
</body>  
</html>
```

## Footer

```
<?php  
echo "<p>Copyright &copy; 1988-" . date("Y") . " Timothy Barnard</p>";  
?>
```

## Styles CSS

```
body {  
    margin: 0px;  
}
```

```
#header {  
    text-align: center;  
    background-color: #b8e4ff;  
    color: #5294ff;  
    padding: 50px;  
}
```

```
#nav {  
    line-height: 30px;  
    background-color: #ffffff;  
    height: 400px;  
    width: 180px;  
    float: left;  
    padding: 5px;  
}
```

```
#mainBody {  
    width: 100%;  
    padding: 10px;  
}
```

```
#mainBody1 {  
    width: 100%;  
    padding: 30px;  
    color: #5294ff;  
    font-family: arial;  
    font-size: 20px;
```

```
    position: absolute;
    left: 200px;
}
```

```
#searchBody {
    width: 400px;
    padding: 10px;
}
```

```
#display {
    position: absolute;
    right: 100px;
    padding: 10px;
    top: 160px;
}
```

```
#footer {
    background-color: #72d1f4;
    color: white;
    clear: both;
    text-align: center;
    padding: 0px;
    position: relative;
    width: 100%;
    bottom: 0;
}
```

```
imgBook{
    position: absolute;
    left: 900px;
    top: 150px;
}
```

```
#user {  
    position: absolute;  
    top: 120px;  
    right: 60px;  
    width: 200px;  
    height: 40px;  
    color: white;  
}
```

```
.error {  
    color: #ff0707;  
    font-family: arial;  
    font-size: 15px;  
}
```

