



Library Website

Web Dev 2 CMPU 2022

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Q1. PHP files

- Database Connection

```
dbconnect.php
1  <!-- Database Connection php -->
2  <?php
3
4      $Connection = mysqli_connect('localhost', 'root', '');
5      if(!$Connection)
6      {
7          die("Database Connection Failed" . mysqli_error($Connection));
8      }
9
10     $Select_Db = mysqli_select_db($Connection, 'Mine');
11     if(!$Select_Db)
12     {
13         die("Database Selection Failed" . mysqli_error($Connection));
14     }
15     ?>
```

This code connect to my Database. If the connection fails, it uses die() to terminate the script and displays an error

- Login

This code handles user authentication by checking the entered username and password against the database. If the authentication is successful, it sets a session

variable and redirects the user; otherwise, it displays an error message on the login page.

login.php

```
1  <?php
2  //connect to db
3  require('dbconnect.php');
4  session_start();
5
6  //retrieve user from db
7  if ($_SERVER['REQUEST_METHOD'] == 'POST') {
8      $username = $_POST['username'];
9      $password = $_POST['password'];
10
11      $query = "SELECT * FROM UsersTable WHERE Username = '$username'";
12      $result = mysqli_query($Connection, $query) or die(mysqli_error($Connection));
13      $user = mysqli_fetch_assoc($result);
14
15      if ($user && password_verify($password, $user['Password'])) {
16          $_SESSION['Username'] = $user['Username'];
17          header('Location: index.html');
18          exit();
19      } else {
20          $error_message = "Invalid username or password. Please try again.";
21      }
22  }
23
24  ?>
25
26  <!DOCTYPE html>
27  <html lang="en">
28
29  <head>
30      <meta charset="UTF-8">
31      <meta name="viewport" content="width=device-width, initial-scale=1.0">
32      <link rel="stylesheet" href="styles.css">
33      <title>Login</title>
34  </head>
35
36  <body>
37      <h2>Login</h2>
38
39      <?php
40      if (isset($error_message)) {
41          echo "<p style='color: red;'>$error_message</p>";
42      }
43      ?>
44
45      <form method="post" action="">
46          <label for="username">Username:</label>
47          <input type="text" name="username" required><br>
48
49          <label for="password">Password:</label>
50          <input type="password" name="password" required><br>
51
52          <input type="submit" value="Login">
53      </form>
54
55      <p>Don't have an account? <a href="register.php">Register Now!</a></p>
56  </body>
57
58  </html>
59
```

- Register

This code manages user registration by handling the registration form submission, ensuring a secure password hash, and inserting the user's details into the database. Upon successful registration, it triggers a success message and redirects the user. In case of registration failure, it generates an error message to be shown on the registration page.

```

46
47 <?php
48 if (isset($_SESSION['registration_success']) && $_SESSION['registration_success']) {
49     echo "<p style='color: green;'>Registration successful!</p>";
50     // Reset the session variable to avoid displaying the message again on page refresh
51     unset($_SESSION['registration_success']);
52 } elseif (isset($_SESSION['registration_error'])) {
53     echo "<p style='color: red;'>" . $_SESSION['registration_error'] . "</p>";
54     unset($_SESSION['registration_error']);
55 }
56 ?>
57
11 $password = password_hash($_POST['password'], PASSWORD_DEFAULT);
12 $firstName = $_POST['firstName'];
13 $surname = $_POST['surname'];
14 $address = $_POST['address'];
15 $city = $_POST['city'];
16 $mobile = $_POST['mobile'];
17
18 $query = "INSERT INTO UsersTable (Username, Password, FirstName, Surname, Address, City, Mobile)
19         VALUES ('$username', '$password', '$firstName', '$surname', '$address', '$city', '$mobile')";
20
21 if (mysqli_query($Connection, $query)) {
22     // Registration successful
23     $_SESSION['registration_success'] = true;
24     // Redirect to index.html
25     header('Location: index.html');
26     exit();
27 } else {
28     // Registration failed
29     $_SESSION['registration_error'] = "Registration failed: " . mysqli_error($Connection);
30 }
31 }
32 ?>
33

```

- Search

This PHP code is for a book search functionality. It retrieves search criteria from a form, including book title, author, and category. It makes an SQL query based on the provided criteria and executes it to fetch matching books from the database. The results are then displayed in an HTML table, showing details such as book title, author, publication year, category, and reservation status. The user can input search criteria through a form, and the results are updated based on the search parameters.

The code also includes a dropdown menu for selecting book categories from the database

```
search.php
1  <?php
2  require('dbconnect.php');
3
4  //variables
5  $searchTitle = $searchAuthor = $searchCategory = '';
6  $results = array();
7
8
9  if ($_SERVER['REQUEST_METHOD'] == 'POST') {
10     // Get search criteria from the form
11     $searchTitle = $_POST['searchTitle'];
12     $searchAuthor = $_POST['searchAuthor'];
13     $searchCategory = $_POST['searchCategory'];
14
15     // SQL query
16     $query = "SELECT * FROM BooksTable WHERE 1";
17
18     if (!empty($searchTitle)) {
19         $query .= " AND BookTitle LIKE '%$searchTitle%'";
20     }
21
22     if (!empty($searchAuthor)) {
23         $query .= " AND Author LIKE '%$searchAuthor%'";
24     }
25
26     if (!empty($searchCategory)) {
27         // join BooksTable and CategoryTable on Category ID
28         $query .= " AND BooksTable.Category IN (SELECT ID FROM CategoryTable WHERE Name = '$searchCategory')";
29     }
30
31
32     $result = mysqli_query($Connection, $query) or die(mysqli_error($Connection));
33
34
35     while ($row = mysqli_fetch_assoc($result)) {
36         $results[] = $row;
37     }
38 }
39
40 ?>
```

```

87
88 <?php
89 // Display search results
90 if (!empty($results)) {
91     echo '<h3>Search Results:</h3>';
92     echo '<table border="1">';
93     echo '<tr><th>Book Title</th><th>Author</th><th>Year</th><th>Category</th><th>Reserved</th></tr>';
94
95     foreach ($results as $book) {
96         echo '<tr>';
97         echo '<td>' . $book['BookTitle'] . '</td>';
98         echo '<td>' . $book['Author'] . '</td>';
99         echo '<td>' . $book['Year'] . '</td>';
100
101         // Fetch the category name based on the category ID
102         $categoryId = $book['Category'];
103         $categoryQuery = "SELECT Name FROM CategoryTable WHERE ID = $categoryId";
104         $categoryResult = mysqli_query($Connection, $categoryQuery) or die(mysqli_error($Connection));
105         $category = mysqli_fetch_assoc($categoryResult);
106
107         echo '<td>' . $category['Name'] . '</td>';
108         echo '<td>' . ($book['Reserved'] ? 'Yes' : 'No') . '</td>';
109         echo '</tr>';
110     }
111
112     echo '</table>';
113 }
114 ?>

```

- Reserve

This PHP code is for a book reservation system. It starts by checking if the user is logged in; if not, it redirects them to the login page. It then handles two scenarios based on form submissions:

Search Form Submission: It retrieves the search title from the form, constructs an SQL query to search for books with titles containing the given search title, and displays the results.

Reservation Form Submission: If a book is selected for reservation, it checks whether the book is already reserved. If not, it inserts a reservation record into the ReservesTable with the book's ISBN, the user's username, and the current date. The reservation status is displayed, indicating success or failure.

🐞 reserve.php

```
1  <?php
2  // connect to db
3  require('dbconnect.php');
4  session_start();
5
6  // Check if the user is logged in
7  if (!isset($_SESSION['Username'])) {
8      header('Location: login.php');
9      exit();
10 }
11
12 // vars.
13 $reservationMessage = '';
14 $searchTitle = '';
15 $results = array();
16
17 // Check if the form is submitted
18 if ($_SERVER['REQUEST_METHOD'] == 'POST') {
19     if (isset($_POST['searchTitle'])) {
20         // get search title
21         $searchTitle = $_POST['searchTitle'];
22
23         // sql for search
24         $searchQuery = "SELECT * FROM BooksTable WHERE BookTitle LIKE '%$searchTitle%'";
25         $searchResult = mysqli_query($Connection, $searchQuery) or die(mysqli_error($Connection));
26
27         //fetch results into array
28         while ($row = mysqli_fetch_assoc($searchResult)) {
29             $results[] = $row;
30         }
31     } elseif (isset($_POST['isbnToReserve'])) { //update reserves table
32         $isbnToReserve = $_POST['isbnToReserve'];
33         $username = $_SESSION['Username'];
34
35         // Check if the book is already reserved
36         $checkReservedQuery = "SELECT * FROM BooksTable WHERE ISBN = '$isbnToReserve' AND Reserved = 1";
37         $checkReservedResult = mysqli_query($Connection, $checkReservedQuery) or die(mysqli_error($Connection));
38
39         if (mysqli_num_rows($checkReservedResult) > 0) {
40             $reservationMessage = "This book is already reserved.";
41         } else {
42             // Reserve the book
43             $reserveQuery = "INSERT INTO ReservesTable (ISBN, UserName, ReservedDate) VALUES ('$isbnToReserve',
44             if (mysqli_query($Connection, $reserveQuery)) {
45                 $reservationMessage = "Reservation successful!";
46             } else {
47                 $reservationMessage = "Error reserving the book: " . mysqli_error($Connection);
48             }
49         }
50     }
51 }
52
53
54 ?>
```



```

90
91 <?php
92 //search results
93 if (!empty($results)) {
94     echo '<h3>Search Results:</h3>';
95     echo '<ul>';
96     foreach ($results as $book) {
97         echo '<li>' . $book['BookTitle'] . ' by ' . $book['Author'] . ' (ISBN: ' . $book['ISBN'] . ') - Cate
98         echo ' <form method="post" action="reserve.php" style="display:inline;">';
99         echo '<input type="hidden" name="isbnToReserve" value="' . $book['ISBN'] . '">';
100         echo '<button type="submit">Reserve</button></form></li>';
101     }
102     echo '</ul>';
103 }
104 ?>
105

```

- My Account

This page allows users to see a list of books they've reserved. It first checks if a user is logged in and gets their username. Then, it fetches information about the reserved books from the database and displays them on the page. If there are no reserved books, it shows a message indicating that. There's also a logout button that users can click to log out from their accounts.

myaccount.php

```

1 <?php
2 // connect to db
3 require('dbconnect.php');
4 session_start();
5
6 // Check if the user is logged in
7 if (!isset($_SESSION['Username'])) {
8     header('Location: login.php');
9     exit();
10 }
11
12 // Get the username of user
13 $username = $_SESSION['Username'];
14
15 // sql to fetch user's reserved books
16 $reservedBooksQuery = "SELECT BooksTable.BookTitle, BooksTable.Author, BooksTable.ISBN, CategoryTable.Name AS
17                        FROM ReservesTable
18                        JOIN BooksTable ON ReservesTable.ISBN = BooksTable.ISBN
19                        JOIN CategoryTable ON BooksTable.Category = CategoryTable.ID
20                        WHERE ReservesTable.UserName = '$username'";
21 $reservedBooksResult = mysqli_query($Connection, $reservedBooksQuery) or die(mysqli_error($Connection));
22
23 ?>

```

```

46
47 <?php
48 // Display reserved books
49 if (mysqli_num_rows($reservedBooksResult) > 0) {
50     echo '<h3>Reserved Books:</h3>';
51     echo '<ul>';
52     while ($book = mysqli_fetch_assoc($reservedBooksResult)) {
53         echo '<li>' . $book['BookTitle'] . ' by ' . $book['Author'] . ' (ISBN: ' . $book['ISBN'] . ') - Cate
54     }
55     echo '</ul>';
56 } else {
57     echo '<p>No reserved books.</p>';
58 }
59 ?>
60

```

- Logout

Logout.php starts a session, clears all session variables, destroys the session, and then redirects the user to the login page (login.php). The purpose is to log the user out by ending the session and ensuring that they are directed to the login page afterward.

```

logout.php
1  <?php
2  session_start();
3
4
5  $_SESSION = array();
6
7  // Destroy the session
8  session_destroy();
9
10 //login page
11 header("Location: login.php");
12 exit();
13 ?>
14

```

Q2 Source Code

```

Index.html
<!DOCTYPE html>
<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Library Navigation</title>

```

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

<body>

  <nav>
    <ul>
      <li><a href="search.php">Search</a></li>
      <li><a href="reserve.php">Reserve</a></li>
      <li><a href="myaccount.php">My Account</a></li>
    </ul>
  </nav>

  <div class="content">
    <h1>Welcome to the Library</h1>

  </div>

</body>

</html>
```

Styles.css

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
}

nav {
  background-color: #333;
  overflow: hidden;
}

nav ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
```

```

}

nav li {
    float: left;
}

nav a {
    display: block;
    color: white;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

nav a:hover {
    background-color: #ddd;
    color: black;
}

.content {
    padding: 20px;
}

h1 {
    color: #333;
}

```

Dbconnect.php

```

<!-- Database Connection php -->
<?php

$Connection = mysqli_connect('localhost', 'root', '');
if(!$Connection)
{
    die("Database Connection Failed" . mysqli_error($Connection));
}

$Select_Db = mysqli_select_db($Connection, 'Mine');
if(!$Select_Db)

```

```
{
    die("Database Selection Failed" . mysqli_error($Connection));
}
?>
```

Login.php

```
<?php
//connect to db
require('dbconnect.php');
session_start();

//retrieve user from db
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = $_POST['username'];
    $password = $_POST['password'];

    $query = "SELECT * FROM UsersTable WHERE Username = '$username'";
    $result = mysqli_query($Connection, $query) or die(mysqli_error($Connection));
    $user = mysqli_fetch_assoc($result);

    if ($user && password_verify($password, $user['Password'])) {
        $_SESSION['Username'] = $user['Username'];
        header("Location: index.html");
        exit();
    } else {
        $error_message = "Invalid username or password. Please try again.";
    }
}

?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles.css">
```

```

    <title>Login</title>
</head>

<body>
    <h2>Login</h2>

    <?php
    if (isset($error_message)) {
        echo "<p style='color: red;'>$error_message</p>";
    }
    ?>

    <form method="post" action="">
        <label for="username">Username:</label>
        <input type="text" name="username" required><br>

        <label for="password">Password:</label>
        <input type="password" name="password" required><br>

        <input type="submit" value="Login">
    </form>

    <p>Don't have an account? <a href="register.php">Register Now!</a></p>
</body>

</html>

```

Register.php

```

<?php
error_reporting(E_ALL);
ini_set('display_errors', 1);

require('dbconnect.php');
session_start();

//form details
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $username = $_POST['username'];
    $password = password_hash($_POST['password'], PASSWORD_DEFAULT);

```



```

$firstName = $_POST['firstName'];
$surname = $_POST['surname'];
$address = $_POST['address'];
$city = $_POST['city'];
$mobile = $_POST['mobile'];

$query = "INSERT INTO UsersTable (Username, Password, FirstName, Surname, Address, City, Mobile)
VALUES ('$username', '$password', '$firstName', '$surname', '$address', '$city', '$mobile')";

if (mysqli_query($Connection, $query)) {
    // Registration successful
    $_SESSION['registration_success'] = true;
    // Redirect to index.html
    header("Location: index.html");
    exit();
} else {
    // Registration failed
    $_SESSION['registration_error'] = "Registration failed: " . mysqli_error($Connection);
}
}
?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles.css">
    <title>Register</title>
</head>

<body>
    <h2>Register</h2>

    <?php
    if (isset($_SESSION['registration_success']) && $_SESSION['registration_success']) {
        echo "<p style='color: green;'>Registration successful!</p>";
        // Reset the session variable to avoid displaying the message again on page refresh
        unset($_SESSION['registration_success']);
    }
    }
    ?>

```

```

} elseif (isset($_SESSION['registration_error'])) {
    echo "<p style='color: red;'>" . $_SESSION['registration_error'] . "</p>";
    unset($_SESSION['registration_error']);
}
?>

<form method="post" action="register.php">
    <label for="username">Username:</label>
    <input type="text" name="username" required><br>

    <label for="password">Password:</label>
    <input type="password" name="password" required><br>

    <label for="firstName">First Name:</label>
    <input type="text" name="firstName" required><br>

    <label for="surname">Surname:</label>
    <input type="text" name="surname" required><br>

    <label for="address">Address:</label>
    <input type="text" name="address" required><br>

    <label for="city">City:</label>
    <input type="text" name="city" required><br>

    <label for="mobile">Mobile:</label>
    <input type="text" name="mobile" required><br>

    <input type="submit" value="Register">
</form>
</body>

</html>

```

Search.php

```

<?php
require('dbconnect.php');

//variables

```

```

$searchTitle = $searchAuthor = $searchCategory = "";
$results = array();

if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    // Get search criteria from the form
    $searchTitle = $_POST['searchTitle'];
    $searchAuthor = $_POST['searchAuthor'];
    $searchCategory = $_POST['searchCategory'];

    // SQL query
    $query = "SELECT * FROM BooksTable WHERE 1";

    if (!empty($searchTitle)) {
        $query .= " AND BookTitle LIKE '%$searchTitle%'";
    }

    if (!empty($searchAuthor)) {
        $query .= " AND Author LIKE '%$searchAuthor%'";
    }

    if (!empty($searchCategory)) {
        // join BooksTable and CategoryTable on Category ID
        $query .= " AND BooksTable.Category IN (SELECT ID FROM CategoryTable WHERE Name = '$searchCategory')";
    }

    $result = mysqli_query($Connection, $query) or die(mysqli_error($Connection));

    while ($row = mysqli_fetch_assoc($result)) {
        $results[] = $row;
    }
}

?>
<!DOCTYPE html>
<html lang="en">

```

```

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

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

    <title>Search Books</title>

</head>

<body>

    <nav>

        <ul>

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

            <li><a href="reserve.php">Reserve</a></li>

            <li><a href="myaccount.php">My Account</a></li>

        </ul>

    </nav>

    <h2>Search Books</h2>

    <form method="post" action="search.php">

        <label for="searchTitle">Book Title:</label>

        <input type="text" name="searchTitle" value="<?php echo $searchTitle; ?>">

        <label for="searchAuthor">Author:</label>

        <input type="text" name="searchAuthor" value="<?php echo $searchAuthor; ?>">

        <label for="searchCategory">Category:</label>

        <select name="searchCategory">

            <option value="">-- Select Category --</option>

            <?php

                // category names from the CategoryTable

                $categoryQuery = "SELECT * FROM CategoryTable";

                $categoryResult = mysqli_query($Connection, $categoryQuery) or die(mysqli_error($Connection));

                while ($category = mysqli_fetch_assoc($categoryResult)) {

                    echo '<option value="" . $category['Name'] . "" . ($searchCategory == $category['Name'] ? ' selected' : '')

                    . '>' . $category['Name'] . '</option>';

                }

            ?>

        </select>

    </form>

```

```

        </select>

        <input type="submit" value="Search">
    </form>

<?php
    // Display search results
    if (!empty($results)) {
        echo '<h3>Search Results:</h3>';
        echo '<table border="1">';
        echo '<tr><th>Book Title</th><th>Author</th><th>Year</th><th>Category</th><th>Reserved</th></tr>';

        foreach ($results as $book) {
            echo '<tr>';
            echo '<td>' . $book['BookTitle'] . '</td>';
            echo '<td>' . $book['Author'] . '</td>';
            echo '<td>' . $book['Year'] . '</td>';

            // Fetch the category name based on the category ID
            $categoryId = $book['Category'];
            $categoryQuery = "SELECT Name FROM CategoryTable WHERE ID = $categoryId";
            $categoryResult = mysqli_query($Connection, $categoryQuery) or die(mysqli_error($Connection));
            $category = mysqli_fetch_assoc($categoryResult);

            echo '<td>' . $category['Name'] . '</td>';
            echo '<td>' . ($book['Reserved'] ? 'Yes' : 'No') . '</td>';
            echo '</tr>';
        }

        echo '</table>';
    }
    ?>
</body>

</html>

```

Reserve.php

```

<?php
// connect to db

```

```

require('dbconnect.php');
session_start();

// Check if the user is logged in
if (!isset($_SESSION['Username'])) {
    header("Location: login.php");
    exit();
}

// vars.
$reservationMessage = "";
$searchTitle = "";
$results = array();

// Check if the form is submitted
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_POST['searchTitle'])) {
        // get search title
        $searchTitle = $_POST['searchTitle'];

        // sql for search
        $searchQuery = "SELECT * FROM BooksTable WHERE BookTitle LIKE '%$searchTitle%'";
        $searchResult = mysqli_query($Connection, $searchQuery) or die(mysqli_error($Connection));

        //fetch results into array
        while ($row = mysqli_fetch_assoc($searchResult)) {
            $results[] = $row;
        }
    } elseif (isset($_POST['isbnToReserve'])) { //update reserves table
        $isbnToReserve = $_POST['isbnToReserve'];
        $username = $_SESSION['Username'];

        // Check if the book is already reserved
        $checkReservedQuery = "SELECT * FROM BooksTable WHERE ISBN = '$isbnToReserve' AND Reserved
= 1";
        $checkReservedResult = mysqli_query($Connection, $checkReservedQuery) or
die(mysqli_error($Connection));

        if (mysqli_num_rows($checkReservedResult) > 0) {
            $reservationMessage = "This book is already reserved.";

```



```

    } else {
        // Reserve the book

        $reserveQuery = "INSERT INTO ReservesTable (ISBN, UserName, ReservedDate) VALUES
('$isbnToReserve', '$username', NOW())";

        if (mysqli_query($Connection, $reserveQuery)) {
            $reservationMessage = "Reservation successful!";
        } else {
            $reservationMessage = "Error reserving the book: " . mysqli_error($Connection);
        }
    }
}

?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles.css">
    <title>Reserve a Book</title>
</head>

<body>

    <nav>
        <ul>
            <li><a href="search.php">Search</a></li>
            <li><a href="reserve.php">Reserve</a></li>
            <li><a href="myaccount.php">My Account</a></li>
        </ul>
    </nav>

    <h2>Reserve a Book</h2>

    <?php
        // reservation message

```

```

if (!empty($reservationMessage)) {
    echo "<p style='color: green;*>$reservationMessage</p>";
}
?>

<form method="post" action="reserve.php">
    <label for="searchTitle">Search by Title:</label>
    <input type="text" name="searchTitle" value="<?php echo $searchTitle; ?>" placeholder="Enter book title">
    <input type="submit" value="Search">
</form>

<?php
//search results
if (!empty($results)) {
    echo '<h3>Search Results:</h3>';
    echo '<ul>';
    foreach ($results as $book) {
        echo '<li>' . $book['BookTitle'] . ' by ' . $book['Author'] . ' (ISBN: ' . $book['ISBN'] . ') - Category: ' .
$book['Category'];
        echo ' <form method="post" action="reserve.php" style="display:inline;">';
        echo '<input type="hidden" name="isbnToReserve" value="" . $book['ISBN'] . "'>';
        echo '<button type="submit">Reserve</button></form></li>';
    }
    echo '</ul>';
}
?>

<!-- Hidden form for the Reserve button -->
<form id="reserveForm" method="post" action="reserve.php">
    <input type="hidden" name="isbnToReserve">
</form>

</body>

</html>

```

Myaccount.php

```

<?php
// connect to db

```

```

require('dbconnect.php');
session_start();

// Check if the user is logged in
if (!isset($_SESSION['Username'])) {
    header("Location: login.php");
    exit();
}

// Get the username of user
$username = $_SESSION['Username'];

// sql to fetch user's reserved books
$reservedBooksQuery = "SELECT BooksTable.BookTitle, BooksTable.Author, BooksTable.ISBN,
CategoryTable.Name AS Category
                        FROM ReservesTable
                        JOIN BooksTable ON ReservesTable.ISBN = BooksTable.ISBN
                        JOIN CategoryTable ON BooksTable.Category = CategoryTable.ID
                        WHERE ReservesTable.UserName = '$username'";
$reservedBooksResult = mysqli_query($Connection, $reservedBooksQuery) or die(mysqli_error($Connection));

?>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="styles.css">
    <title>My Account</title>
</head>

<body>

    <nav>
        <ul>
            <li><a href="search.php">Search</a></li>
            <li><a href="reserve.php">Reserve</a></li>
            <li><a href="myaccount.php">My Account</a></li>

```

```

        </ul>
    </nav>

    <h2>My Account</h2>

    <?php
    // Display reserved books
    if (mysqli_num_rows($reservedBooksResult) > 0) {
        echo '<h3>Reserved Books:</h3>';
        echo '<ul>';
        while ($book = mysqli_fetch_assoc($reservedBooksResult)) {
            echo '<li>' . $book['BookTitle'] . ' by ' . $book['Author'] . ' (ISBN: ' . $book['ISBN'] . ') - Category: ' .
$book['Category'] . '</li>';
        }
        echo '</ul>';
    } else {
        echo '<p>No reserved books.</p>';
    }
    ?>

    <!-- Logout Form -->
    <form method="post" action="logout.php">
        <input type="submit" value="Logout">
    </form>

</body>

</html>

```

Logout.php

```

<?php
session_start();

$_SESSION = array();

// Destroy the session
session_destroy();

//login page

```

```
header("Location: login.php");  
exit();  
?>
```

Mine.sql

```
-- phpMyAdmin SQL Dump  
-- version 5.2.1  
-- https://www.phpmyadmin.net/  
--  
-- Host: localhost  
-- Generation Time: Dec 07, 2023 at 07:38 PM  
-- Server version: 10.4.28-MariaDB  
-- PHP Version: 8.2.4  
  
SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";  
START TRANSACTION;  
SET time_zone = "+00:00";  
  
/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;  
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;  
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;  
/*!40101 SET NAMES utf8mb4 */;  
  
--  
-- Database: `Mine`  
--  
-----  
--  
-- Table structure for table `BooksTable`  
--  
  
CREATE TABLE `BooksTable` (  
  `ISBN` varchar(20) NOT NULL,  
  `BookTitle` varchar(60) NOT NULL,  
  `Author` varchar(50) NOT NULL,  
  `Year` int(4) DEFAULT NULL,
```

```

`Category` int(50) DEFAULT NULL,
`Reserved` tinyint(1) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

-----

--
-- Table structure for table `CategoryTable`
--

CREATE TABLE `CategoryTable` (
  `ID` int(3) NOT NULL,
  `Name` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

-----

--
-- Table structure for table `ReservesTable`
--

CREATE TABLE `ReservesTable` (
  `ISBN` varchar(20) NOT NULL,
  `UserName` varchar(30) NOT NULL,
  `ReservedDate` date DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

-----

--
-- Table structure for table `UsersTable`
--

CREATE TABLE `UsersTable` (
  `Username` varchar(20) NOT NULL,
  `Password` varchar(60) NOT NULL,
  `FirstName` varchar(30) NOT NULL,
  `Surname` varchar(30) NOT NULL,
  `Address` varchar(50) NOT NULL,
  `City` varchar(20) NOT NULL,

```



```
`Mobile` varchar(20) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
--
```

```
-- Indexes for dumped tables
```

```
--
```

```
--
```

```
-- Indexes for table `BooksTable`
```

```
--
```

```
ALTER TABLE `BooksTable`
  ADD PRIMARY KEY (`ISBN`),
  ADD KEY `Category` (`Category`);
```

```
--
```

```
-- Indexes for table `CategoryTable`
```

```
--
```

```
ALTER TABLE `CategoryTable`
  ADD PRIMARY KEY (`ID`);
```

```
--
```

```
-- Indexes for table `ReservesTable`
```

```
--
```

```
ALTER TABLE `ReservesTable`
  ADD PRIMARY KEY (`ISBN`,`UserName`),
  ADD KEY `Username` (`UserName`);
```

```
--
```

```
-- Indexes for table `UsersTable`
```

```
--
```

```
ALTER TABLE `UsersTable`
  ADD PRIMARY KEY (`Username`) KEY_BLOCK_SIZE=3 USING BTREE;
```

```
--
```

```
-- Constraints for dumped tables
```

```
--
```

```
--
```

```
-- Constraints for table `BooksTable`
```

```
--
```

```

ALTER TABLE `BooksTable`
  ADD CONSTRAINT `bookstable_ibfk_1` FOREIGN KEY (`Category`) REFERENCES `CategoryTable` (`ID`);

--
-- Constraints for table `ReservesTable`
--
ALTER TABLE `ReservesTable`
  ADD CONSTRAINT `reservestable_ibfk_1` FOREIGN KEY (`ISBN`) REFERENCES `BooksTable` (`ISBN`),
  ADD CONSTRAINT `reservestable_ibfk_2` FOREIGN KEY (`UserName`) REFERENCES `UsersTable`
(`Username`);
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SE
T COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

```

Q3

Login Page

← → ↻ ⓘ localhost/Mine/login.php

Brightspace SoftwareEngineeri... Google Maps

Login




Username:

Password:

Don't have an account? [Register Now!](#)

Register Page

← → ↻ ⓘ localhost/Mine/register.php

 Brightspace  SoftwareEngineeri...  Google Maps

Register

Username:

Password:

First Name:

Surname:




Address:

City:

Mobile:

Index Page

← → ↻ ⓘ localhost/Mine/index.html




 Brightspace  SoftwareEngineeri...  Google Maps

Search Reserve My Account

Welcome to the Library

Search Page

← → ↻ localhost/Mine/search.php

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Search Reserve My Account

Search Books



Book Title: Author: Category:

Search Results:

Book Title	Author	Year	Category	Reserved
The Power of Now	Sophie Taylor	2017	Self-Help	No
Mindset Mastery	John Brown	2020	Self-Help	No

Reserve Page

← → ↻ localhost/Mine/reserve.php

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Search Reserve My Account

Reserve a Book

Search by Title:

Search Results:

- The Shining by Ella Miller (ISBN: 978-4-5678-9012-3) - Category: 18

My Account Page

← → ↻ ⓘ localhost/Mine/myaccount.php

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[Search](#) [Reserve](#) [My Account](#)

My Account

Reserved Books:

- The Haunting by Emily Davis (ISBN: 978-0-1234-5678-9) - Category: Horror
- Love's Embrace by Jane Smith (ISBN: 978-4-4567-8901-2) - Category: Romance
- Enchanted Dreams by John Doe (ISBN: 978-5-5678-9012-3) - Category: Fantasy

[Logout](#)

Q4 Design Document

