

TU856/2 Web Development 2 CA Project – Library System

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Part 1. Description of php pages and their subsequent interactions with other php pages

The list of php pages are as follows:

- Configuration
- Database
- Login
- Register
- Home
- Logout
- Search
- Reserve
- View
- Remove
-

Database

Description: This file securely stores login information for accessing the PHPAdmin SQL Server, used by every page on the website. It includes essential details like passwords and server names but is not intended for display on the site.

Login

Description: Serving as one of the initial user interaction points, the login page features prompts for entering credentials. A link below the login button provides an option to create an account if the user doesn't have one. Upon submission, the server queries the database. Incorrect entries prompt error messages, while successful logins create a session, granting users access to the site's features. Error checking works perfectly.

Register

Description: Accessible from the login page, this page allows users to create an account. Users fill out a form, and after submitting it to the server, error checks are performed for missing fields or incorrect data types. Upon submission, users are redirected to the login page, where their new credentials should be functional.

Home

Description: The home page and subsequent pages are more detailed, featuring various headings and a navigation bar at the top. The navigation bar includes links to two major pages, "Search for a Book" and "View Reserved Books," along with a logout link. A user can access the login page from the home page by a link. The home page looks different based on whether you've logged in or not. The home page welcomes users and provides personalized greetings based on their username after they've logged in. Additionally, it includes an image and text about the library.

Logout

Description: This PHP file, accessible from any page on the navigation bar, terminates the login session for the user, redirecting them to the login page. Attempting to access other pages without logging in results in a display with only a login link. The logout.php file destroys the initial login session created by the user.

Search

Description: The search page offers three inputs for users to choose from: book name, author, or a drop-down menu of category options in the database. A query is sent to the database based on user input, displaying corresponding results. Each item in the table shows the book title, author name, category, and a section to reserve the book. If available for reservation, a link is provided; otherwise, "Already reserved" is displayed.

Reserve

Description: Accessed through the table displayed in the search, the reserve page uses the ISBN of the selected book. It displays a confirmation message, double-checking if the user wishes to reserve the book. After confirmation, the book is reserved, and the user receives a confirmation message. Links are provided to return to the index/home page or reserve another book. Canceling returns the user to the index page without reserving any book. Reserving involves two SQL arguments: one updates the reserve value in the book to '1,' marking it as reserved, and the other inserts a reservation into the reservations table.

View

Description: The view page allows users to see all books reserved by the logged-in user. It queries the database based on the username, displaying all results. If no results are found, "0 results" is displayed. A column at the end of each book allows the user to end the reservation.

Remove

Description: Accessible through the view page, the remove page confirms with the user if they wish to unreserve a book. It displays the book title and author along with a confirmation button and a cancel link. Two SQL arguments are sent: one updates the book's column with the value '0,' making the book available for reservation again, and the other deletes the specific reservation from the reservations table.

Part 2. Source code

Config.php

```
🐘 config.php
1      <?php //Credentials for the database.
2      $serverName = "localhost";
3      $username = "root";
4      $password = "";
5      $dbName = "library";
6      ?>
```

Database.php

```
🐘 database.php ×
🐘 database.php
1      <?php
2      require_once "config.php"; // Including the configuration php file to access the database credentials.
3
4      // Create the database connection with the parameters being the credentials from config.php.
5      $conn = new mysqli($serverName, $username, $password, $dbName);
6
7      // Check if the connection was successful.
8      if ($conn->connect_error) {
9          die("Connection failed: " . $conn->connect_error);
10     }
11     ?>
12
```

Login.php

```
login.php
1  <?php
2  // Start a session or resume the existing session.
3  session_start();
4
5  // Include the database connection file.
6  include "database.php";
7
8  // Unset the 'account' session variable to ensure a clean login/logout process.
9  unset($_SESSION["account"]);
10
11 // Check if the login form has been submitted.
12 if (isset($_POST["account"]) && isset($_POST["pw"])) {
13     // Sanitize and escape user input.
14     $u = $conn->real_escape_string($_POST['account']);
15     $p = $conn->real_escape_string($_POST['pw']);
16
17     // Prepare and execute a SQL query to check the user's credentials.
18     $sql = "SELECT username FROM users WHERE username = '$u' AND password = '$p'";
19     $result = $conn->query($sql);
20
21     // If the query is successful and returns exactly one row
22     // set the session variables and redirect to the home page.
23     if ($result && $result->num_rows === 1) {
24         $_SESSION["account"] = $_POST["account"];
25         $_SESSION["success"] = "Logged in.";
26         header("Location: home.php");
27         return;
28     } else {
29         // If the credentials are incorrect, set an error message and redirect back to the login page.
```

```
login.php
30     $_SESSION["error"] = "Incorrect username or password.";
31     header("Location: login.php");
32     return;
33 }
34 } elseif (count($_POST) > 0) {
35     // If there are POST parameters but they don't match the expected ones, set an error message and redirect
36     // back to the login page.
37     $_SESSION["error"] = "Missing required information somewhere";
38     header("Location: login.php");
39     return;
40 }
41 ?>
42
43 <!DOCTYPE html>
44 <html lang="en">
45 <head>
46     <meta charset="utf-8">
47     <title>Login page</title>
48     <link rel="stylesheet" type="text/css" href="styling.css">
49 </head>
50 <body class="home-page">
51
52     <header>
53         <!-- Navigation Bar -->
54         <div id="navbar">
55             <ul>
56                 <li><a href="home.php">Home</a></li>
57                 <li><a href="search.php">Search for a book</a></li>
58                 <li><a href="view.php">View reserved books</a></li>
```

```
login.php
59      |     <li><a href="logout.php">Log out</a></li>
60    |   </ul>
61  |   </div>
62  |   <!-- Page Header -->
63  |   <h1>Login</h1>
64 </header>
65
66 <main>
67   <?php
68   // Display success message if set.
69   if (isset($_SESSION["success"])) {
70       echo ('<p style="color:green">' . $_SESSION["success"] . "</p>\n");
71       unset($_SESSION["success"]);
72   }
73
74   // Display error message if set.
75   if (isset($_SESSION["error"])) {
76       echo ('<p style="color:red">' . $_SESSION["error"] . "</p>\n");
77       unset($_SESSION["error"]);
78   }
79   ?>
80
81   <!-- Login Form -->
82   <form method="post" action="login.php">
83     <label for="account">Username:</label>
84     <input type="text" name="account" required>
85
86     <label for="pw">Password:</label>
87     <input type="password" name="pw" required>
88
```

```
login.php
89     <input type="submit" value="Log in">
90     <p> Are you not a member? <a href="registration.php">Sign up</a></p>
91   </form>
92 </main>
93
94   <!-- Page Footer -->
95   <footer>
96     Page Paradise Library Services 2023
97   </footer>
98
99 </body>
100 </html>
```

Registration.php

```
🐘 registration.php
1   <?php
2   // Start a session or resume the existing session.
3   session_start();
4
5   // Require the database connection file.
6   require_once "database.php";
7
8   // Initialize an empty array to store validation errors.
9   $errors = array();
10  $registrationSuccess = false; // Variable to track registration status
11
12 // Check if the registration form has been submitted (HTTP POST request).
13 if ($_SERVER["REQUEST_METHOD"] == "POST") {
14     // Validate username
15     if (!isset($_POST['username']) || empty($_POST['username'])) {
16         $errors[] = "Please enter a username.";
17     } else {
18         // Check if the username is unique
19         $username = $conn->real_escape_string($_POST['username']);
20         $checkUsernameQuery = "SELECT * FROM users WHERE username = '$username'";
21         $result = $conn->query($checkUsernameQuery);
22
23         if ($result->num_rows > 0) {
24             $errors[] = "Username already exists. Please choose a different one.";
25         }
26     }
27
28     // Validate password and password confirmation
29     if (!isset($_POST['password']) || empty($_POST['password'])) {
30         $errors[] = "Please enter a password.";
31     } elseif (strlen($_POST['password']) < 6) {
32         $errors[] = "Password should be at least six characters long.";
33     } elseif ($_POST['password'] !== $_POST['confirm_password']) {
34         $errors[] = "Passwords do not match.";
35     }
36
37     // Validate other fields
38     $requiredFields = ['fname', 'lname', 'addr1', 'addr2', 'city', 'telephone', 'mobile'];
39
40     foreach ($requiredFields as $field) {
41         if (!isset($_POST[$field]) || empty($_POST[$field])) {
42             $errors[] = "Please fill out all fields.";
43             break;
44         }
45     }
46
47     // Validate telephone number
48     if (!isset($_POST['telephone']) || empty($_POST['telephone'])) {
49         $errors[] = "Please enter a telephone number.";
50     } elseif (!is_numeric($_POST['telephone']) || strlen($_POST['telephone']) !== 10) {
51         $errors[] = "Telephone number should be numeric and 10 characters in length.";
52     }
53
54     // Validate mobile phone number
55     if (!isset($_POST['mobile']) || empty($_POST['mobile'])) {
56         $errors[] = "Please enter a mobile phone number.";
57     } elseif (!is_numeric($_POST['mobile']) || strlen($_POST['mobile']) !== 10) {
58         $errors[] = "Mobile phone number should be numeric and 10 characters in length.";
```

```
🐘 registration.php
30     $errors[] = "Please enter a password.";
31 } elseif (strlen($_POST['password']) < 6) {
32     $errors[] = "Password should be at least six characters long.";
33 } elseif ($_POST['password'] !== $_POST['confirm_password']) {
34     $errors[] = "Passwords do not match.";
35 }
36
37 // Validate other fields
38 $requiredFields = ['fname', 'lname', 'addr1', 'addr2', 'city', 'telephone', 'mobile'];
39
40 foreach ($requiredFields as $field) {
41     if (!isset($_POST[$field]) || empty($_POST[$field])) {
42         $errors[] = "Please fill out all fields.";
43         break;
44     }
45 }
46
47 // Validate telephone number
48 if (!isset($_POST['telephone']) || empty($_POST['telephone'])) {
49     $errors[] = "Please enter a telephone number.";
50 } elseif (!is_numeric($_POST['telephone']) || strlen($_POST['telephone']) !== 10) {
51     $errors[] = "Telephone number should be numeric and 10 characters in length.";
52 }
53
54 // Validate mobile phone number
55 if (!isset($_POST['mobile']) || empty($_POST['mobile'])) {
56     $errors[] = "Please enter a mobile phone number.";
57 } elseif (!is_numeric($_POST['mobile']) || strlen($_POST['mobile']) !== 10) {
58     $errors[] = "Mobile phone number should be numeric and 10 characters in length.";
```

```
registration.php
59     }
60
61     // If there are no validation errors, proceed with data insertion
62     if (empty($errors)) {
63         // Sanitize and escape user input
64         $u = $conn->real_escape_string($_POST['username']);
65         $pw = $conn->real_escape_string($_POST['password']);
66         $f = $conn->real_escape_string($_POST['fname']);
67         $l = $conn->real_escape_string($_POST['lname']);
68         $a1 = $conn->real_escape_string($_POST['addr1']);
69         $a2 = $conn->real_escape_string($_POST['addr2']);
70         $c = $conn->real_escape_string($_POST['city']);
71         $t = $conn->real_escape_string($_POST['telephone']);
72         $m = $conn->real_escape_string($_POST['mobile']);
73
74         // Construct the SQL query for user registration
75         $sql1 = "INSERT INTO users (username, password, fname, lname, addr1, addr2, city, telephone, mobile)
76             | VALUES ('$u', '$pw', '$f', '$l', '$a1', '$a2', '$c', '$t', '$m')";
77
78         // Execute the query
79         $conn->query($sql1);
80
81         // Check for database errors
82         if ($conn->errno) {
83             die("Error: " . $conn->error);
84         }
85
86         // Set registration success to true
87         $registrationSuccess = true;
88     }
89 }
90 ?>
91
92 <!DOCTYPE html>
93 <html lang="en">
94 <head>
95     <meta charset="utf-8">
96     <title>Registration page</title>
97     <link rel="stylesheet" type="text/css" href="styling.css">
98 </head>
99 <body>
100
101     <header>
102         <!-- Navigation Bar -->
103         <div id="navbar">
104             <ul>
105                 <li><a href="home.php">Home</a></li>
106                 <li><a href="search.php">Search for a book</a></li>
107                 <li><a href="view.php">View reserved books</a></li>
108                 <li><a href="logout.php">Log out</a></li>
109             </ul>
110         </div>
111         <!-- Page Header -->
112         <h1>Register here</h1>
113     </header>
114
115     <main>
116         <?php
```

```
registration.php
88     }
89 }
90 ?>
91
92 <!DOCTYPE html>
93 <html lang="en">
94 <head>
95     <meta charset="utf-8">
96     <title>Registration page</title>
97     <link rel="stylesheet" type="text/css" href="styling.css">
98 </head>
99 <body>
100
101     <header>
102         <!-- Navigation Bar -->
103         <div id="navbar">
104             <ul>
105                 <li><a href="home.php">Home</a></li>
106                 <li><a href="search.php">Search for a book</a></li>
107                 <li><a href="view.php">View reserved books</a></li>
108                 <li><a href="logout.php">Log out</a></li>
109             </ul>
110         </div>
111         <!-- Page Header -->
112         <h1>Register here</h1>
113     </header>
114
115     <main>
116         <?php
```

```
registration.php
117 // Display validation errors or registration confirmation
118 if (!empty($errors)) {
119     echo '<div class="error">' . implode('<br>', $errors) . '</div>';
120 } elseif ($registrationSuccess) {
121     echo '<div class="success">Registration successful. <a href="login.php">Login here</a></div>';
122 }
123 ?>
124 <!-- Registration Form -->
125 <form method="post">
126     <p>Username: <input type="text" name="username"></p>
127     <p>Password: <input type="password" name="password"></p>
128     <p>Confirm Password: <input type="password" name="confirm_password"></p>
129     <p>First name: <input type="text" name="fname"></p>
130     <p>Last name: <input type="text" name="lname"></p>
131     <p>Address line 1: <input type="text" name="addr1"></p>
132     <p>Address line 2: <input type="text" name="addr2"></p>
133     <p>City: <input type="text" name="city"></p>
134     <p>Telephone: <input type="number" name="telephone"></p>
135     <p>Mobile: <input type="number" name="mobile"></p>
136     <p>
137         <input type="submit" value="Submit" />
138         <a href="login.php">Cancel</a>
139     </p>
140     <p><br></p>
141 </form>
142 </main>
143 <!-- Page Footer -->
144 <footer>
145     | Page Paradise Library Services 2023
146
147 <!-- Page Footer -->
148 <footer>
149     | Page Paradise Library Services 2023
150 </footer>
151 </body>
152 </html>
```

Home.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="utf-8">
    <title>Home Page</title>
    <link rel="stylesheet" type="text/css" href="styling.css">
</head>
<body>

    <header>
        <!-- Navigation Bar -->
        <div id="navbar">
            <ul>
                <li><a href="home.php">Home</a></li>
                <li><a href="search.php">Search for a book</a></li>
                <li><a href="view.php">View reserved books</a></li>
                <li><a href="logout.php">Log out</a></li>
            </ul>
        </div>
        <!-- Library Header -->
        <h1>Welcome to Page Paradise Library</h1>
    </header>

    <main>
        <?php
        // Start PHP Session and Include Database Configuration
        session_start();
        include "database.php";

        // Check if User is Logged In
        if (!isset($_SESSION["account"]))
        {
            ?>
            <!-- Display Welcome Message and Invitation to Log In -->
            <section>
                <p>
                    Welcome to Page Paradise Library, where reading comes to life. Established
                    in<br>
                    2010, we are dedicated to providing a haven for book enthusiasts. Explore
                    our<br>
                    user-friendly system, featuring easy registration, efficient book
                    searches,<br>
                    and a convenient reservation process. Dive into the <br>joy of reading with
                    Page
                    Paradise Library.
                </p>
                <p>
                    Thank you for being a part of our reading community. Happy reading!
                </p>
        
```

```

        </section>
        <p>Please <a href="login.php">Log In</a> to start.</p>
        <?php
    }
else
{
    // Display Welcome Message for Logged-In User
    $name = isset($_SESSION["account"]) ? $_SESSION["account"] : '';
    ?>
    <section>
        <h1>Welcome back to the library, <?php echo(htmlentities($name)); ?></h1>
        <!-- Display User Information and Library Features -->
        <ul>
            <strong>User Registration and Login:</strong> Access the system by registering
            or logging in. New users can easily create an<br> account with a unique
username for
            identification.<strong>Search for a Book:</strong> Find books by title,
            author, or category. We <br>support partial searches for titles and authors,
and categories
            are retrieved from the database.<strong>Search Results:</strong> <br>Search
results
            are neatly displayed
            results. View book details and reserve available books.
            <strong>Reserve a Book:</strong> Secure <br>your book reservation if it's
available. The system checks for prior
            reservations before confirming your booking and <br>records the reservation
date.
            <strong>View Reserved Books:</strong> Easily see a list of books you've
reserved. Manage your <br>reservations
            by removing them as needed.
        </ul>
    </section>
    <?php
}
?>
</main>

<!-- Library Logo -->


<!-- Library Footer -->
<footer>
    Page Paradise Library Services 2023
</footer>

</body>
</html>

```

Logout.php

```
🐘 logout.php
1   <?php
2   session_start();
3   session_destroy();
4   header("Location: home.php");
5   ?
6
```

Search.php

```
<!DOCTYPE html>
<html lang="en">
<head>
    <!-- Document metadata -->
    <meta charset="utf-8">
    <title>Search Page</title>
    <!-- Link to external stylesheet -->
    <link rel="stylesheet" type="text/css" href="styling.css">
</head>
<body>

<header>
    <!-- Navigation Bar -->
    <div id="navbar">
        <ul>
            <li><a href="home.php">Home</a></li>
            <li><a href="search.php">Search for a book</a></li>
            <li><a href="view.php">View reserved books</a></li>
            <li><a href="logout.php">Log out</a></li>
        </ul>
    </div>
    <!-- Page Header -->
    <h1>Search for a book</h1>
</header>

<main>
    <?php
    // Start or resume the existing session.
    session_start();

    // Require the database connection file.
    require_once "database.php";

    // Check if the user is logged in
    if (!isset($_SESSION["account"])) {
        ?
    }
    <!-- Display message if user is not logged in -->
```

```

<p>Please <a href="login.php">Log In</a> to start.</p>
<?php
} else {
    if ($_SERVER["REQUEST_METHOD"] == "GET") {
        // Initialize errors array
        $errors = array();

        // Validate at least one field is filled out
        $searchName = isset($_GET['name']) ? trim($_GET['name']) : '';
        $searchAuthor = isset($_GET['author']) ? trim($_GET['author']) : '';
        $searchCategory = isset($_GET['category']) ? trim($_GET['category']) : '';

        if (empty($searchName) && empty($searchAuthor) && empty($searchCategory)) {
            $errors[] = "Please fill out at least one search field.";
        }

        // Display errors if any
        if (!empty($errors)) {
            echo '<div class="error">' . implode('<br>', $errors) . '</div>';
        } else {
            // Proceed with the search query
            $sql = "SELECT books.* , category.categoryDepartment FROM books
                    JOIN category ON books.categoryID = category.categoryID
                    WHERE ";

            $conditions = [];

            if (!empty($searchName)) {
                $conditions[] = "books.bookTitle LIKE '%" .
$conn->real_escape_string($searchName) . "%'";
            }

            if (!empty($searchAuthor)) {
                $conditions[] = "books.author LIKE '%" .
$conn->real_escape_string($searchAuthor) . "%'";
            }

            if (!empty($searchCategory)) {
                $conditions[] = "category.categoryDepartment LIKE '%" .
$conn->real_escape_string($searchCategory) . "%'";
            }

            $sql .= implode(" AND ", $conditions);

            // Execute the query
            $result = $conn->query($sql);

            if ($result) {
                if ($result->num_rows > 0) {
                    // Display search results
                    echo '<table>';

```

```

echo "<tr><td><h2> Book Title </h2></td>
<td><h2> Author </h2></td>
<td><h2> Genre </h2></td>
<td><h2>Reserve</h2></td></tr>";
while ($row = $result->fetch_assoc()) {
    echo '<tr>';
    $bookTitle = isset($row['bookTitle']) ? $row['bookTitle'] : 'N/A';
    $author = isset($row['author']) ? $row['author'] : 'N/A';
    $categoryType = isset($row['categoryDepartment']) ?
$row['categoryDepartment'] : 'N/A';
    $isbn = isset($row['ISBN']) ? $row['ISBN'] : 'N/A';
    echo '<td>' . $bookTitle . '</td>';
    echo '<td>' . $author . '</td>';
    echo '<td>' . $categoryType . '</td>';
    echo '<td><a href="reserve.php?ISBN=' . $isbn . '"';
    echo '">Reserve</a></td>';
    echo '</tr>';
}
echo '</table>';
} else {
    echo 'No results found.';
}
} else {
    echo 'Query Error: ' . $conn->error;
}
}
}
?>
<section>
<!-- Search Form -->
<form method="get" action="search.php">
<h2>Search by name:</h2>
<input type="text" name="name" placeholder="Enter book name" value="<?php echo
isset($_GET['name']) ? htmlspecialchars($_GET['name']) : ''; ?>">

<h2>Search by author:</h2>
<input type="text" name="author" placeholder="Enter author name" value="<?php echo
isset($_GET['author']) ? htmlspecialchars($_GET['author']) : ''; ?>">

<h2>Search by category:</h2>
<select name="category">
    <option value="">Select Category</option>
    <?php
        // Display category options
        $categoryQuery = "SELECT * FROM category";
        $categoryResult = $conn->query($categoryQuery);

        while ($category = $categoryResult->fetch_assoc()) {
            $categoryType = isset($category['CategoryDepartment']) ?
$category['CategoryDepartment'] : 'N/A';

```

```

        $selected = (isset($_GET['category'])) && $_GET['category'] ==
$categoryType) ? 'selected' : '';
            echo '<option value="' . $categoryType . '" ' . $selected . '>' .
$categoryType . '</option>';
        }
    ?>
</select>

<input type="submit" value="Go">
<p><br></p>
</form>
</section>
<?php
} ?>
</main>

<footer>
    <!-- Page Footer -->
    Page Paradise Library Services 2023
</footer>

</body>
</html>

```

Reserve.php

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Reserve page</title>
    <link rel="stylesheet" type="text/css" href="styling.css">
</head>
<body>
    <header>
        <!-- Navigation Bar -->
        <div id="navbar">
            <ul>
                <li><a href="home.php">Home</a></li>
                <li><a href="search.php">Search here for a book</a></li>
                <li><a href="view.php">View reserved books</a></li>
                <li><a href="logout.php">Log out</a></li>
            </ul>
        </div>
        <!-- Page Header -->
        <h1>Reserve a book here</h1>
    </header>
    <main>
        <?php
// Start or resume the existing session.
session_start();

```

```

// Require the database connection file.
require_once "database.php";

// Function to display error message and exit
function showError($message) {
    echo $message . " <a href='home.php'>Go back to home</a>";
    exit();
}

// Check if the user is not logged in.
if (!isset($_SESSION["account"])) {
    showError("Please <a href='login.php'>Log In</a> to start.");
} else {
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        // Process reservation here
        $isbn = isset($_POST['isbn']) ? $_POST['isbn'] : null;

        // Use a transaction to ensure atomicity
        $conn->begin_transaction();

        try {
            // Check if the book is already reserved by any user
            $checkBookReservation = "SELECT reserved FROM books WHERE ISBN = '$isbn' FOR
UPDATE";
            $bookReservationResult = $conn->query($checkBookReservation);

            if ($bookReservationResult && $bookReservationResult->num_rows > 0) {
                $row = $bookReservationResult->fetch_assoc();
                $isReserved = $row['reserved'];

                if (!$isReserved) {
                    // Book is not reserved, proceed with the reservation
                    $username = $_SESSION["account"];

                    // Check if the user has already reserved the book
                    $checkUserReservation = "SELECT * FROM reservations WHERE ISBN = '$isbn'
AND username = '$username'";
                    $userReservationResult = $conn->query($checkUserReservation);

                    if ($userReservationResult && $userReservationResult->num_rows === 0) {
                        // Book is not reserved by the user, proceed with the reservation
                        $reservedDate = date("Y-m-d"); // Current date

                        // Insert reservation into the reservations table
                        $insertReservation = "INSERT INTO reservations (ISBN, username,
reservedDate) VALUES ('$isbn', '$username', '$reservedDate')";
                        $result = $conn->query($insertReservation);

                        if ($result) {
                            // Update the books table to mark the book as reserved

```

```

        $updateBooksTable = "UPDATE books SET reserved = 1 WHERE ISBN =
'isbn';
        $conn->query($updateBooksTable);

        // Commit the transaction
        $conn->commit();
        echo "Reservation successful. <a href='home.php'>Go back to
home</a>";
    } else {
        // Rollback the transaction on error
        $conn->rollback();
        echo "Error in reservation: " . $conn->error;
    }
} else {
    // User has already reserved this book
    echo "You have already reserved this book. <a href='home.php'>Go back
to home</a>";
}
} else {
    // Book is already reserved by another user
    echo "This book is already reserved. <a href='home.php'>Go back to
home</a>";
}
} else {
    // Error checking reservation status
    echo "Error checking reservation status: " . $conn->error;
}
} catch (Exception $e) {
    // Rollback the transaction on exception
    $conn->rollback();
    echo "Error: " . $e->getMessage();
}

// Close the database connection
$conn->close();
} else {
    // Display confirmation form
    $isbn = isset($_GET['ISBN']) ? $_GET['ISBN'] : null;

    $sql = "SELECT bookTitle, author, ISBN FROM books WHERE ISBN = '$isbn'";
    $result = $conn->query($sql);

    if (!$result) {
        die("Error: " . $conn->error);
    }

    if ($result->num_rows > 0) {
        $row = $result->fetch_assoc();
        $bookTitle = isset($row['bookTitle']) ? $row['bookTitle'] : 'N/A';
        $author = isset($row['author']) ? $row['author'] : 'N/A';
    }
}

```

```

echo <<< _END
    <!-- Display confirmation form -->
    <h3>Confirm your reservation</h3>
    <form method="post" action="reserve.php">
        <p>Are you sure you would like to reserve "$bookTitle" by $author?</p>
        <input type="hidden" name="isbn" value="$isbn">
        <p><input type="submit" value="Yes, I'm sure"/>
        <a href="search.php">Cancel</a></p>
    </form>
_END;
} else {
    echo "Book not found or an error occurred.";
}

// Close the database connection
$conn->close();
}

?>
</main>
<!-- Page Footer -->
<footer>
    Page Paradise Library Services 2023
</footer>
</body>
</html>

```

View.php

```

<!DOCTYPE html>
<html>
<head>
    <!-- Document metadata -->
    <meta charset="utf-8">
    <title>View page</title>
    <!-- Link to external stylesheet -->
    <link rel="stylesheet" type="text/css" href="styling.css">
</head>
<body>
    <header>
        <!-- Navigation Bar -->
        <div id="navbar">
            <ul>
                <li><a href="home.php">Home</a></li>
                <li><a href="search.php">Search here for a book</a></li>
                <li><a href="view.php">View reserved books</a></li>
                <li><a href="logout.php">Log out</a></li>
            </ul>
        </div>
        <!-- Page Header -->
        <h1>Take a look at your reserved books</h1>
    </header>

```

```

</header>
<main>
    <?php
        // Start or resume the existing session.
        session_start();

        // Require the database connection file.
        require_once "database.php";

        if (!isset($_SESSION["account"])) {
            ?>
            <!-- Display message if user is not logged in -->
            Please <a href="login.php">Log In</a> to start.
            <?php
        } else {
            ?>
            <section>
                <!-- Display reserved books for the logged-in user -->
                <h1>Here are all your reserved books!</h1>
                <?php
                    // Get the username from the session
                    $u = $conn->real_escape_string($_SESSION["account"]);

                    // SQL query to retrieve reserved books for the user
                    $sql = "SELECT books.ISBN, bookTitle, author, reserved, reservedDate
                            FROM books
                            JOIN reservations
                            ON books.ISBN = reservations.ISBN
                            WHERE reservations.username = ?";

                    // Prepare and execute the query
                    $stmt = $conn->prepare($sql);
                    $stmt->bind_param("s", $u);
                    $stmt->execute();
                    $result = $stmt->get_result();

                    // Check if there are reserved books
                    if ($result->num_rows > 0) {
                        echo '<table>';
                        echo "<tr><td><h2> Book Title </h2></td>
                            <td><h2> Author </h2></td>
                            <td><h2> Reserve date </h2></td>
                            <td><h2>End this reservation</h2></td></tr>";

                        // Display each reserved book in a table row
                        while ($row = $result->fetch_assoc()) {
                            echo "<tr><td>";
                            echo (htmlentities($row["bookTitle"]));
                            echo "          </td><td>";
                            echo (htmlentities($row["author"]));
                            echo "          </td><td>";

```

```

        echo (htmlentities($row["reservedDate"]));
        echo "      </td><td>";
        echo ('<a href= "remove.php?isbn=' . htmlentities($row["ISBN"]) . .
'">End</a>');
        echo "      </td></tr>";
    }

    echo '</table>';
} else {
    echo "No results";
}
?>
</section>
<?php
} ?>
</main>
<footer>
<!-- Page Footer --&gt;
Page Paradise Library Services 2023
&lt;/footer&gt;
&lt;/body&gt;
&lt;/html&gt;
</pre>

```

Remove.php

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <title>Delete reservation page</title>
    <link rel="stylesheet" type="text/css" href="styling.css">
</head>
<body>
    <header>
        <!-- Navigation Bar --&gt;
        &lt;div id="navbar"&gt;
            &lt;ul&gt;
                &lt;li&gt;&lt;a href="home.php"&gt;Home&lt;/a&gt;&lt;/li&gt;
                &lt;li&gt;&lt;a href="search.php"&gt;Search here for a book&lt;/a&gt;&lt;/li&gt;
                &lt;li&gt;&lt;a href="view.php"&gt;View reserved books&lt;/a&gt;&lt;/li&gt;
                &lt;li&gt;&lt;a href="logout.php"&gt;Log out&lt;/a&gt;&lt;/li&gt;
            &lt;/ul&gt;
        &lt;/div&gt;
        <!-- Page Header --&gt;
        &lt;h1&gt;Delete your reservation for a book&lt;/h1&gt;
    &lt;/header&gt;
    &lt;main&gt;
        &lt;?php
        // Start or resume the existing session.
        session_start();
</pre>

```

```

// Require the database connection file.
require_once "database.php";

// Check if the user is not logged in.
if (!isset($_SESSION["account"])) {
    ?>
    <!-- Display message if user is not logged in -->
    Please <a href="login.php">Log In</a> to start.
    <?php
} else {
    ?>
    <section>
        <?php
            // Check if the 'id' is set in the POST request.
            if (isset($_POST['id'])) {
                // Use prepared statement to prevent SQL injection
                $id = $conn->real_escape_string($_POST['id']);
                $sql = "UPDATE books SET reserved = '0' WHERE ISBN = ?";
                $stmt = $conn->prepare($sql);
                $stmt->bind_param("s", $id);
                $stmt->execute();

                $sql2 = "DELETE FROM reservations WHERE ISBN = ?";
                $stmt2 = $conn->prepare($sql2);
                $stmt2->bind_param("s", $id);
                $stmt2->execute();

                echo '<h2>Reservation Deleted</h2> <br> <a href="home.php">Go back to the
home page</a>';
                return;
            }

            // Get the ISBN from the GET request.
            $id = $conn->real_escape_string($_GET['isbn']);
            $sql = "SELECT bookTitle, author, ISBN FROM books WHERE ISBN=?";
            $stmt = $conn->prepare($sql);
            $stmt->bind_param("s", $id);
            $stmt->execute();
            $result = $stmt->get_result();
            $row = $result->fetch_assoc();
            $n = htmlentities($row['bookTitle']);
            $a = htmlentities($row['author']);
            $id = htmlentities($row['ISBN']);

            echo <<< _END
<h3>Confirm deletion</h3>
<form method="post">
    <p>Are you sure you want to remove the reservation for "$n" by "$a"?</p>
    <input type="hidden" name="id" value="$id">
    <p>
        <input type="submit" value="Yes">

```

```

                <a href="view.php">Cancel</a>
            </p>
        </form>
        _END;
    ?>
</section>
<?php } ?>
</main>
<!-- Page Footer -->
<footer>
    Page Paradise Library Services 2023
</footer>
</body>
</html>

```

CSS

```

body {
    font-family: 'Open Sans', Arial, sans-serif;
    margin: 0;
    padding: 0;
}

.logo {
    position: fixed;
    top: 50%;
    right: 0;
    transform: translateY(-50%);
    width: 350px;
    height: auto;
    z-index: 2;
}

header {
    background-color: #e74c3c;
    color: #fff;
    text-align: center;
    padding: 15px 0;
}

#navbar ul {
    list-style-type: none;
    margin: 0;
    padding: 0;
    position: relative;
    z-index: 1;
}

#navbar li {
    display: inline-block;
    margin-right: 20px;
}

```

```
}

a {
  text-decoration: none;
  color: #e74c3c;
}

#navbar a {
  text-decoration: none;
  color: #fff;
  font-weight: bold;
  position: relative;
}

#navbar a:hover {
  color: lightcoral;
}

main {
  padding: 20px;
}

.textWithImage {
  max-width: 800px;
  margin: auto;
}

.textWithImage h1 {
  color: #333;
}

.textWithImage ul {
  list-style-type: disc;
  padding-left: 20px;
}

form {
  max-width: 600px;
  margin: auto;
}

form h2 {
  margin-top: 15px;
  margin-bottom: 5px;
}

form input[type="text"],
form select {
  width: 100%;
  padding: 10px;
  margin-top: 5px;
```

```
margin-bottom: 10px;
box-sizing: border-box;
}

form input[type="submit"] {
background-color: #e74c3c;
color: #fff;
cursor: pointer;
}

form a {
text-decoration: none;
color: #333;
margin-left: 10px;
}

footer {
background-color: #e74c3c;
color: #fff;
text-align: center;
padding: 10px 0;
position: fixed;
bottom: 0;
width: 100%;
}

table {
border-collapse: collapse;
width: 100%;
}

th, td {
border: 1px solid #dddddd;
text-align: left;
padding: 8px;
}

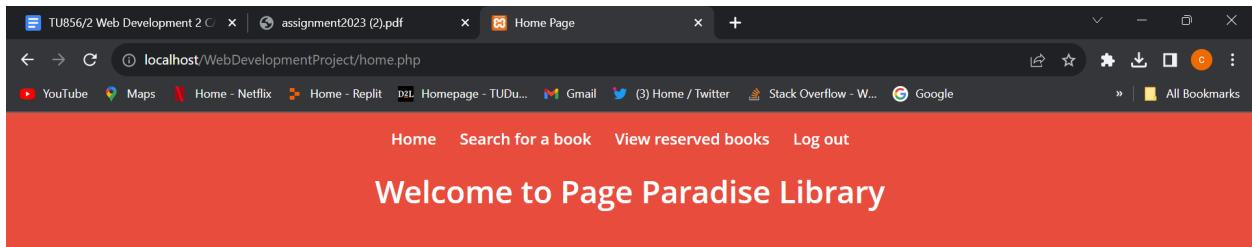
th {
background-color: #009879;
color: #ffffff;
}

tr:nth-child(even) {
background-color: #f3f3f3;
}

tr:hover {
background-color: #ddd;
}
```

Part 3. Copy samples of each screen as it appears in my application

Home start page



Welcome to Page Paradise Library, where reading comes to life. Established in 2010, we are dedicated to providing a haven for book enthusiasts. Explore our user-friendly system, featuring easy registration, efficient book searches, and a convenient reservation process. Dive into the joy of reading with Page Paradise Library.

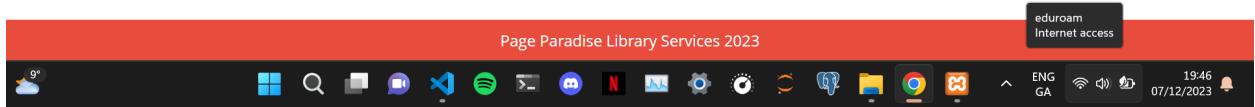
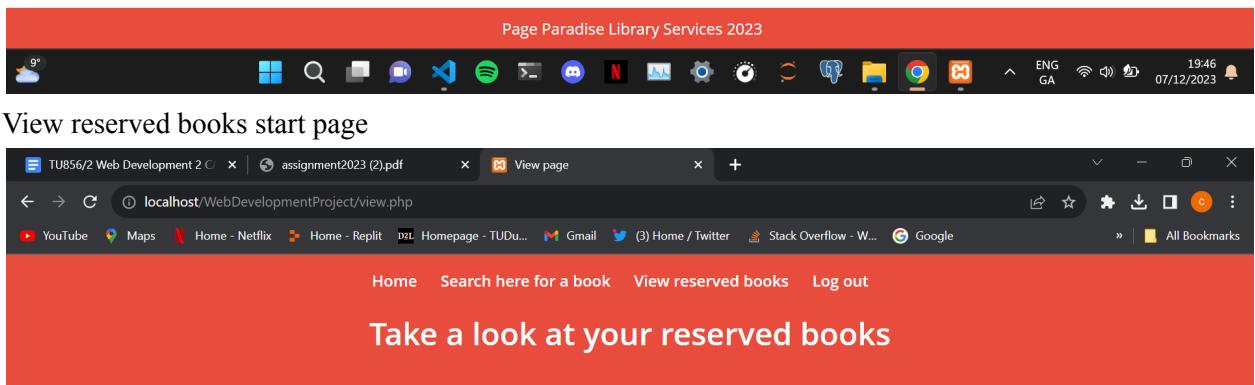
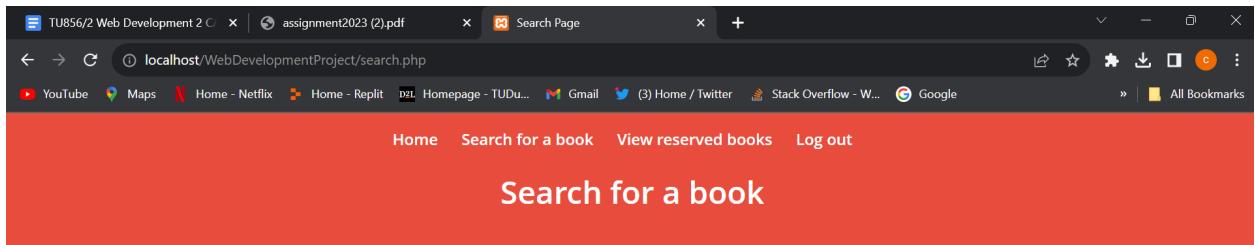
Thank you for being a part of our reading community. Happy reading!

Please [Log In](#) to start.



Search start page





Incorrect credentials for login

A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/login.php'. The page content is an orange header with navigation links: 'Home', 'Search for a book', 'View reserved books', and 'Log out'. Below this is a large red 'Login' button. Underneath the button, the text 'Incorrect username or password.' is displayed in red. There are input fields for 'Username' and 'Password', and a red 'Log in' button. At the bottom, there is a link 'Are you not a member? Sign up'.

Incorrect username or password.

Username:

Password: Log in

Are you not a member? [Sign up](#)

Page Paradise Library Services 2023

Correct login credentials

A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/home.php'. The page content is an orange header with navigation links: 'Home', 'Search for a book', 'View reserved books', and 'Log out'. Below this is a large red 'Welcome to Page Paradise Library' button. Underneath the button, the text 'Welcome back to the library, joecrotty' is displayed in green.

User Registration and Login: Access the system by registering or logging in. New users can easily create an account with a unique username for identification. **Search for a Book:** Find books by title, author, or category. We support partial searches for titles and authors, and categories are retrieved from the database. **Search Results:** Search results are neatly displayed results. View book details and reserve available books. **Reserve a Book:** Secure your book reservation if it's available. The system checks for prior reservations before confirming your booking and records the reservation date. **View Reserved Books:** Easily see a list of books you've reserved. Manage your reservations by removing them as needed.



Page Paradise Library Services 2023

Registration page with wrong information and error checking for all fields to be filled out

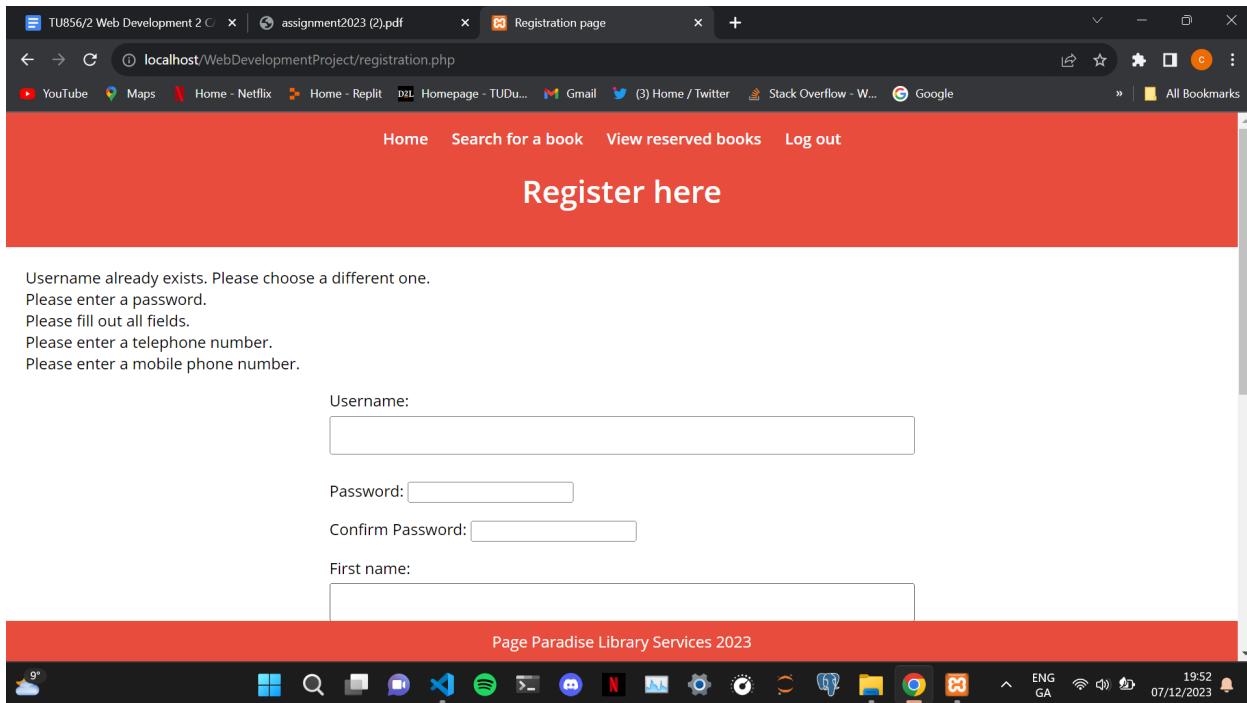
The screenshot shows a web browser window with the following details:

- Title Bar:** TU856/2 Web Development 2 | assignment2023 (2).pdf | Registration page
- Address Bar:** localhost/WebDevelopmentProject/registration.php
- Page Content:**
 - A red header bar with navigation links: Home, Search for a book, View reserved books, Log out.
 - A large white button labeled "Register here".
 - Below the button, there are five error messages:
 - Please enter a username.
 - Please enter a password.
 - Please fill out all fields.
 - Please enter a telephone number.
 - Please enter a mobile phone number.
 - Form fields:
 - Username:
 - Password:
 - Confirm Password:
 - First name:
 - Last name:
 - A red footer bar with the text "Page Paradise Library Services 2023".
- Taskbar:** Shows various application icons and system status indicators (weather, battery, time).

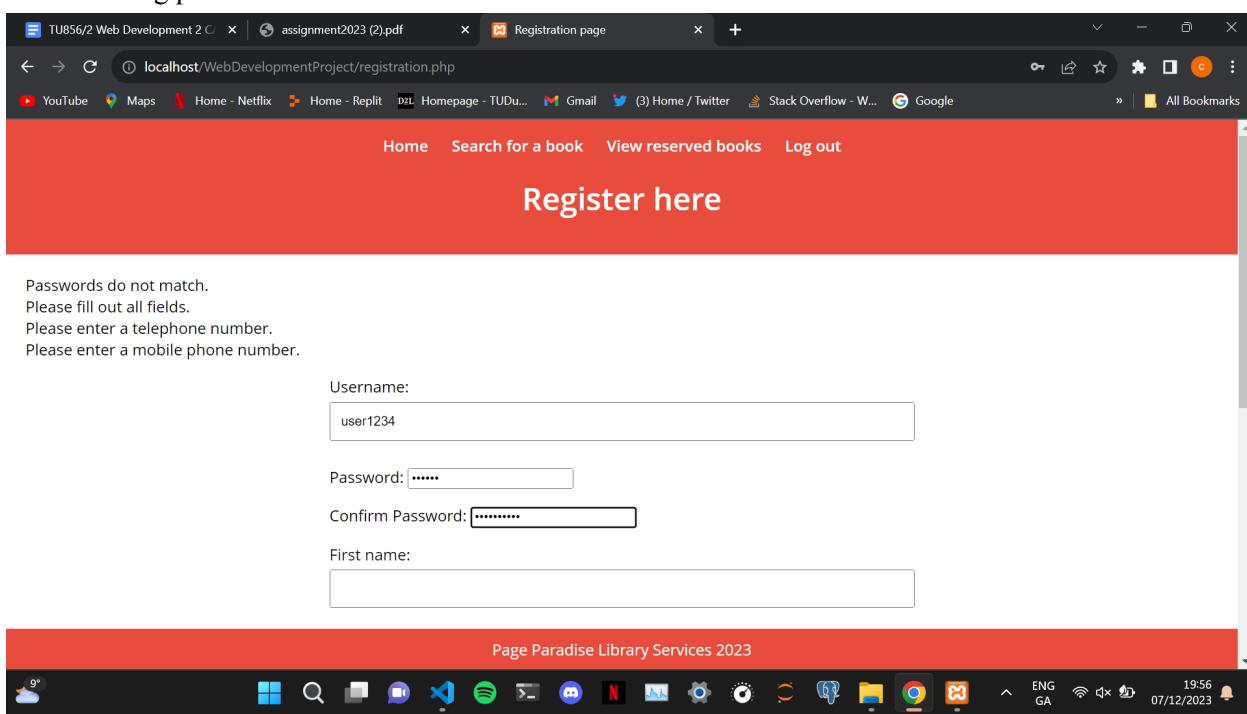
When you try to use a username that's already taken. The screenshots are before and after

The screenshot shows a web browser window with the following details:

- Title Bar:** TU856/2 Web Development 2 | assignment2023 (2).pdf | Registration page
- Address Bar:** localhost/WebDevelopmentProject/registration.php
- Page Content:**
 - A red header bar with navigation links: Home, Search for a book, View reserved books, Log out.
 - A large white button labeled "Register here".
 - Form fields:
 - Username: (containing "joesecretly")
 - Password:
 - Confirm Password:
 - First name:
 - Last name:
 - A red footer bar with the text "Page Paradise Library Services 2023".
- Taskbar:** Shows various application icons and system status indicators (weather, battery, time).



Non matching passwords



Passwords must be 6 characters or more

The screenshot shows a web browser window with two tabs: "TU856/2 Web Development 2" and "assignment2023 (2).pdf". The main content is a registration page titled "Registration page". At the top, there are navigation links: Home, Search for a book, View reserved books, and Log out. Below this is a large orange header bar with the text "Register here". The main form area contains several input fields with validation messages:

- Username: Please fill out all fields.
- Password: Please enter a telephone number.
- Confirm Password: Please enter a mobile phone number.

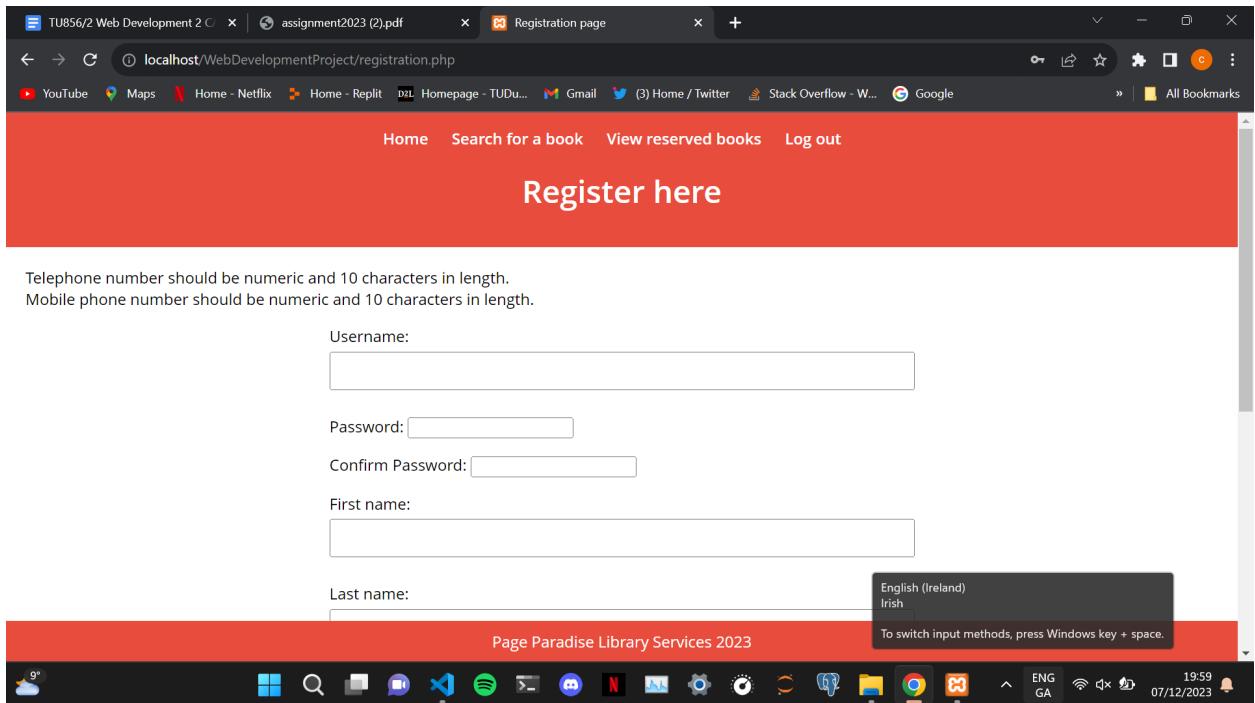
Below the form is a status bar with the text "Page Paradise Library Services 2023".

Telephone and mobile number should be exactly 10 digits long

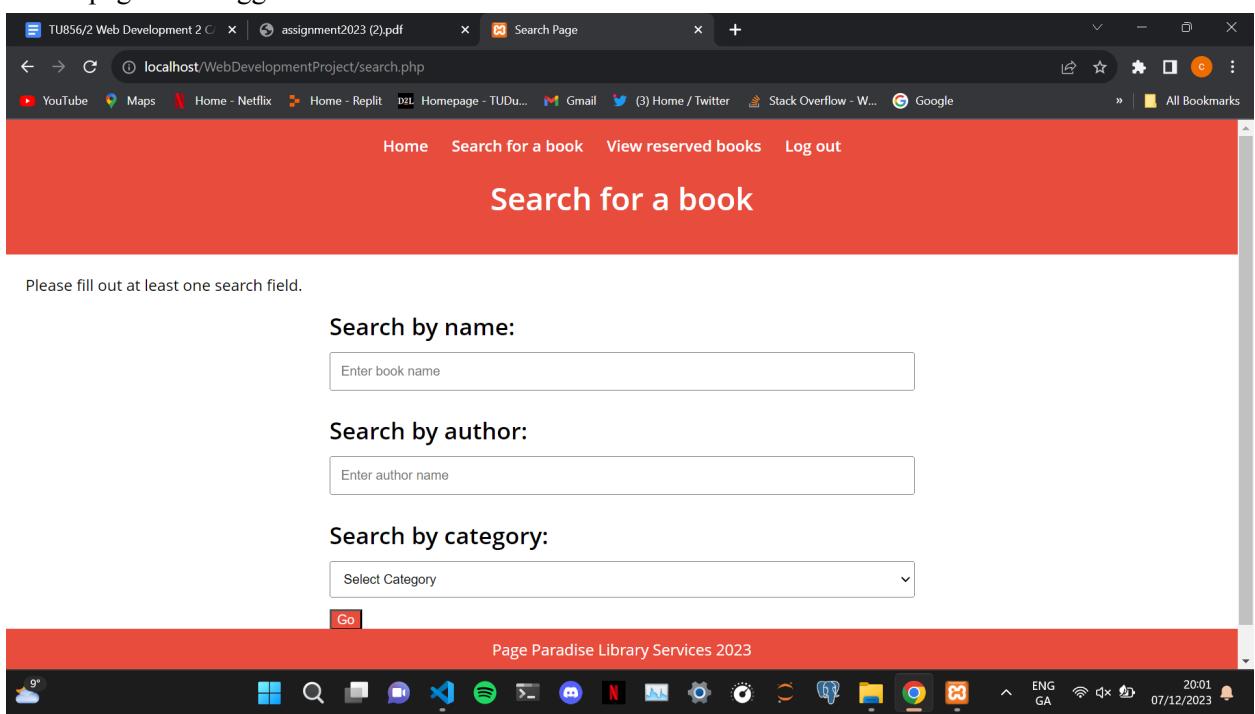
The screenshot shows a web browser window with two tabs: "TU856/2 Web Development 2" and "assignment2023 (2).pdf". The main content is a registration page titled "Registration page". The form fields include:

- Last name: noblett
- Address line 1: 1 Park avenue
- Address line 2: Church
- City: Dublin
- Telephone: 089111123
- Mobile: 089122111

At the bottom of the form are two buttons: "Submit" and "Cancel". Below the form is a status bar with the text "Page Paradise Library Services 2023".



Search page once logged in



Searching by name and partial search by name

A screenshot of a web browser window. The address bar shows the URL: `localhost/WebDevelopmentProject/search.php?name=Computers+in+Business&author=&category=`. The page title is "Search for a book". Below the title is a table with four columns: Book Title, Author, Genre, and Reserve. A single row is present in the table, showing "Computers in Business" in the Book Title column, "Alicia Oneill" in the Author column, "Biography" in the Genre column, and a red "Reserve" button in the Reserve column. The browser's toolbar at the top includes icons for YouTube, Maps, Home - Netflix, Home - Replit, Homepage - TUDu..., Gmail, Twitter, Stack Overflow, and Google.

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Search by name:

Search by author:

Page Paradise Library Services 2023

A screenshot of a web browser window. The address bar shows the URL: `localhost/WebDevelopmentProject/search.php?name=Computers+in&author=&category=`. The page title is "Search for a book". Below the title is a table with four columns: Book Title, Author, Genre, and Reserve. A single row is present in the table, showing "Computers in Business" in the Book Title column, "Alicia Oneill" in the Author column, "Biography" in the Genre column, and a red "Reserve" button in the Reserve column. The browser's toolbar at the top includes icons for YouTube, Maps, Home - Netflix, Home - Replit, Homepage - TUDu..., Gmail, Twitter, Stack Overflow, and Google.

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Search by name:

Search by author:

Page Paradise Library Services 2023

A screenshot of a Windows taskbar. It features the "Page Paradise Library Services 2023" icon, the Start button, a search icon, pinned application icons for File Explorer, Microsoft Edge, and File History, and system icons for battery, signal, volume, and clock. A notification badge in the top right corner indicates "2 new notifications".

Searching by author and partial search by author

A screenshot of a web browser window. The address bar shows the URL `localhost/WebDevelopmentProject/search.php?name=&author=Alicia+Oneill&category=`. The page title is "Search for a book". The main content area displays a table with one row:

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Below the table are two search input fields:

- Search by name:** An input field containing "Enter book name".
- Search by author:** An input field containing "Alicia Oneill".

A screenshot of a web browser window. The address bar shows the URL `localhost/WebDevelopmentProject/search.php?name=&author=Alicia+O&category=`. The page title is "Search for a book". The main content area displays a table with one row:

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Below the table are two search input fields:

- Search by name:** An input field containing "Enter book name".
- Search by author:** An input field containing "Alicia O".

A screenshot of a Windows taskbar. The system tray shows the date and time as "07/12/2023 20:05".

Partial search by both

The screenshot shows a web browser window with the URL `localhost/WebDevelopmentProject/search.php?name=Computers+in&author=Alicia+O&category=`. The page title is "Search for a book". A table displays one result:

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Below the table are two search input fields:

- Search by name:**
- Search by author:**

The status bar at the bottom indicates "Page Paradise Library Services 2023".

Searching by category

The screenshot shows a web browser window with the same search URL and results as the previous screenshot. However, the "Search by name:" input field now contains "Enter book name". Below it is a dropdown menu titled "Select Category" with the following options:

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

Below the dropdown is a "Select Category" dropdown menu. At the bottom is a red "Go" button.

The status bar at the bottom indicates "Page Paradise Library Services 2023".

A screenshot of a web browser window. The address bar shows the URL: `localhost/WebDevelopmentProject/search.php?name=&author=&category=Business`. The page title is "Search for a book". The content area displays a table with the following data:

Book Title	Author	Genre	Reserve
Leadership Principles	Catherine Brown	Business	Reserve
Financial Management	Robert Turner	Business	Reserve
Marketing Strategies	Jennifer Lee	Business	Reserve
Entrepreneurship 101	Chris Martin	Business	Reserve
Business Ethics	Laura Wilson	Business	Reserve
Global Business Trends	Andrew Johnson	Business	Reserve
Business Strategy	Joe Peppard	Business	Reserve

Page Paradise Library Services 2023

A screenshot of a web browser window, identical to the one above, showing the same search results for books.

A screenshot of a web browser window showing search interface elements. The top part of the window is identical to the previous screenshots. Below it, there are three search input fields:

- Search by name:** An input field containing the placeholder text "Enter book name".
- Search by author:** An input field containing the placeholder text "Enter author name".
- Search by category:** A dropdown menu currently set to "Business". Below the menu is a red "Go" button.

Page Paradise Library Services 2023

Error checking so that at least one field is searched

The screenshot shows a web browser window with the URL `localhost/WebDevelopmentProject/search.php?name=&author=&category=`. The page has a red header bar with the text "Search for a book". Below it, a message says "Please fill out at least one search field." There are three search fields labeled "Search by name:", "Search by author:", and "Search by category:". Each field has a placeholder text box. A red "Go" button is located below the category field. The status bar at the bottom of the screen shows "Page Paradise Library Services 2023" and the date "07/12/2023".

Searching by all 3 types.

The screenshot shows a web browser window with the same search URL as the previous screenshot. The results table has the following data:

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Below the table are the three search fields: "Search by name:" (with "Computers in Business" entered), "Search by author:" (with "Alicia Oneill" entered), and "Search by category:" (with "Biography" selected). A red "Go" button is located below the category field. The status bar at the bottom shows "Page Paradise Library Services 2023" and the date "07/12/2023".

All three with partial search

The screenshot shows a web browser window with three tabs open:

- TU856/2 Web Development 2
- assignment2023 (2).pdf
- Search Page

The main content area displays a table with four columns: Book Title, Author, Genre, and Reserve. A single row is present with the following data:

Book Title	Author	Genre	Reserve
Computers in Business	Alicia Oneill	Biography	Reserve

Below the table are three search input fields:

- Search by name:** Input field contains "Computers in"
- Search by author:** Input field contains "Alicia"
- Search by category:** Input field contains "Biography" with a dropdown arrow, and a red "Go" button below it.

The browser's status bar at the bottom shows the date and time as 07/12/2023 20:10.

Confirmation for reservation of a book

The screenshot shows a web browser window with three tabs open:

- TU856/2 Web Development 2
- assignment2023 (2).pdf
- Reserve page

The main content area has a red header bar with the text "Page Paradise Library Services 2023". Below the header, there are navigation links: Home, Search here for a book, View reserved books, and Log out. A large orange button labeled "Reserve a book here" is centered on the page.

The browser's status bar at the bottom shows the date and time as 07/12/2023 20:10.

Confirm your reservation

Are you sure you would like to reserve "Computers in Business" by Alicia Oneill?

[Yes, I'm sure](#) [Cancel](#)

The screenshot shows a Windows taskbar with various pinned icons. The date and time are displayed as 07/12/2023 20:11.

If the user clicks cancel you go back to the empty search page which makes logical sense

A screenshot of a web browser window titled "Search Page". The address bar shows "localhost/WebDevelopmentProject/search.php". The page content is an orange header with "Search for a book" and "View reserved books" links, followed by a "Log out" link. Below this is a red header with "Search for a book". The main body contains three search fields: "Search by name" (input field "Enter book name"), "Search by author" (input field "Enter author name"), and "Search by category" (dropdown menu "Select Category"). A red "Go" button is at the bottom. The status bar at the bottom of the screen shows "Page Paradise Library Services 2023".

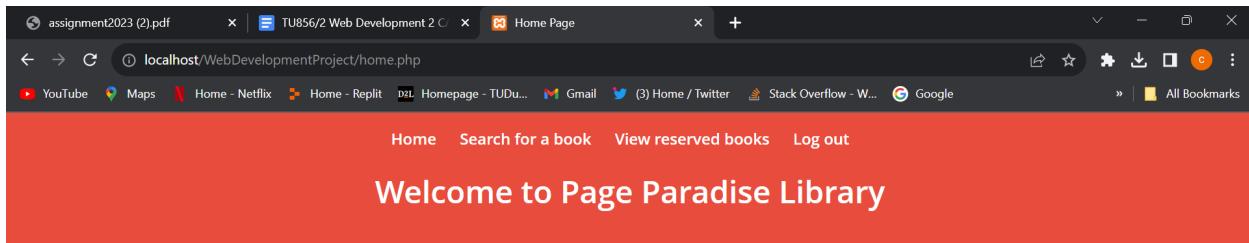
If you click yes I'm sure

A screenshot of a web browser window titled "Reserve page". The address bar shows "localhost/WebDevelopmentProject/reserve.php". The page content is an orange header with "Search here for a book" and "View reserved books" links, followed by a "Log out" link. Below this is a red header with "Reserve a book here". The status bar at the bottom of the screen shows "Page Paradise Library Services 2023".

Reservation successful. [Go back to home](#)

A screenshot of a Windows taskbar. It shows various pinned icons including File Explorer, Microsoft Edge, and File History. The date and time are displayed as "20:12 07/12/2023".

When you then click go back to home



Welcome to Page Paradise Library

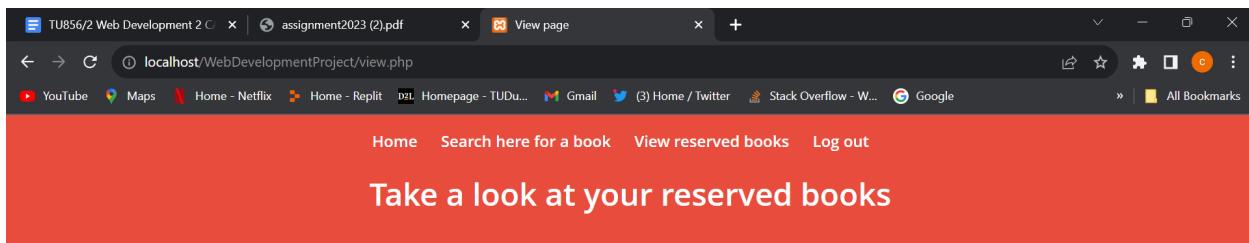
Welcome back to the library, joecrotty

User Registration and Login: Access the system by registering or logging in. New users can easily create an account with a unique username for identification. **Search for a Book:** Find books by title, author, or category. We support partial searches for titles and authors, and categories are retrieved from the database. **Search Results:** Search results are neatly displayed results. View book details and reserve available books. **Reserve a Book:** Secure your book reservation if it's available. The system checks for prior reservations before confirming your booking and records the reservation date. **View Reserved Books:** Easily see a list of books you've reserved. Manage your reservations by removing them as needed.



Page Paradise Library Services 2023

Now when we go to view reserved books we have the updated list and other ones from the past



Take a look at your reserved books

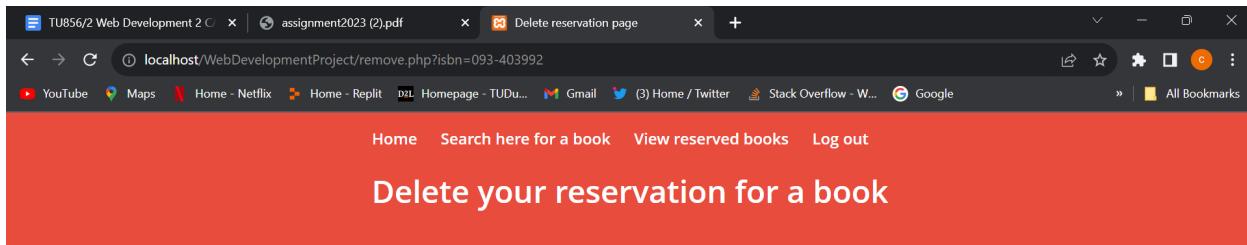
Here are all your reserved books!

Book Title	Author	Reserve date	End this reservation
Computers in Business	Alicia Oneill	2023-12-07	End
My ranch in Texas	George Bush	2008-10-11	End



Page Paradise Library Services 2023

If you click end reservation

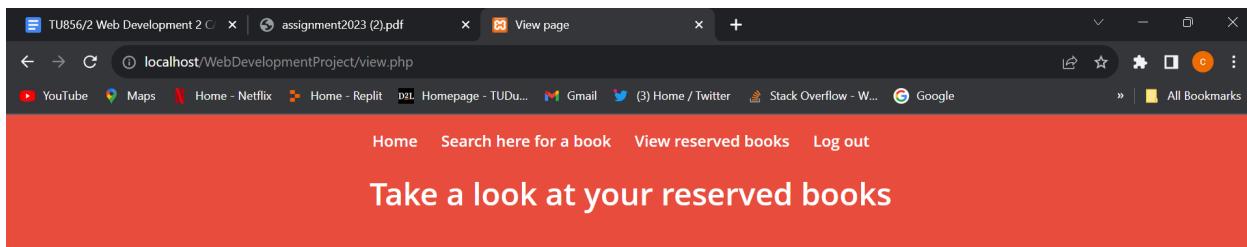


Confirm deletion

Are you sure you want to remove the reservation for "Computers in Business" by
"Alicia Oneill"?



If you click cancel



Here are all your reserved books!

Book Title	Author	Reserve date	End this reservation
Computers in Business	Alicia Oneill	2023-12-07	End
My ranch in Texas	George Bush	2008-10-11	End



If you click yes I'm sure

The screenshot shows a web browser window with the URL localhost/WebDevelopmentProject/remove.php?isbn=093-403992. The page has a red header bar with the text "Delete your reservation for a book". Below the header, there is a message "Reservation Deleted" and a link "Go back to the home page".

Reservation Deleted

[Go back to the home page](#)



Then click go back to the home page

The screenshot shows a web browser window with the URL localhost/WebDevelopmentProject/home.php. The page has a red header bar with the text "Welcome to Page Paradise Library". Below the header, there is a message "Welcome back to the library, joecrofty" and a paragraph of descriptive text about the system's features.

User Registration and Login: Access the system by registering or logging in. New users can easily create an account with a unique username for identification. Search for a Book: Find books by title, author, or category. We support partial searches for titles and authors, and categories are retrieved from the database. Search Results: Search results are neatly displayed results. View book details and reserve available books. Reserve a Book: Secure your book reservation if it's available. The system checks for prior reservations before confirming your booking and records the reservation date. View Reserved Books: Easily see a list of books you've reserved. Manage your reservations by removing them as needed.



A screenshot of a Windows taskbar. It features a pinned icon for "Page Paradise Library Services 2023" and other pinned icons for "assignment2023 (2).pdf", "TU856/2 Web Development 2", "Home Page", "YouTube", "Maps", "Home - Netflix", "Home - Replit", "Homepage - TUDu...", "Gmail", "Twitter", "Stack Overflow - W...", and "Google". The system tray shows the date "08/12/2023" and time "01:41".

Updated list of reservations for the user joe crotty

A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/view.php'. The page has a red header with white text: 'Home', 'Search here for a book', 'View reserved books', and 'Log out'. Below the header is a large red box containing the text 'Take a look at your reserved books'. The main content area shows a table with four columns: 'Book Title', 'Author', 'Reserve date', and 'End this reservation'. There is one row of data: 'My ranch in Texas' by George Bush, reserved on '2008-10-11', with a link 'End' under the last column.

Book Title	Author	Reserve date	End this reservation
My ranch in Texas	George Bush	2008-10-11	End

Here are all your reserved books!

Book Title	Author	Reserve date	End this reservation
My ranch in Texas	George Bush	2008-10-11	End

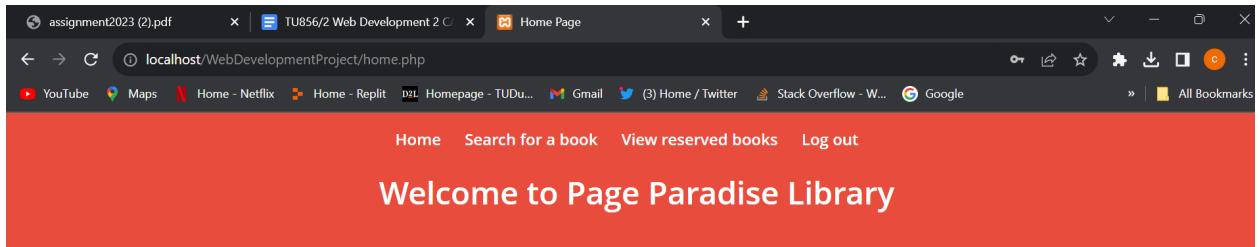
If joe crotty decides to reserve the book My ranch in Texas again, there is error checking in place

A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/reserve.php'. The page has a red header with white text: 'Home', 'Search here for a book', 'View reserved books', and 'Log out'. Below the header is a large red box containing the text 'Reserve a book here'. At the bottom of the page, there is a message: 'This book is already reserved. [Go back to home](#)'.

This book is already reserved. [Go back to home](#)

A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/'. The page has a red header with white text: 'Home', 'Search here for a book', 'View reserved books', and 'Log out'. The rest of the page is blank.

If the user tommy100 tries to reserve the book joe crotty has reserved: My ranch in Texas



assignment2023 (2).pdf | TU856/2 Web Development 2 | Home Page

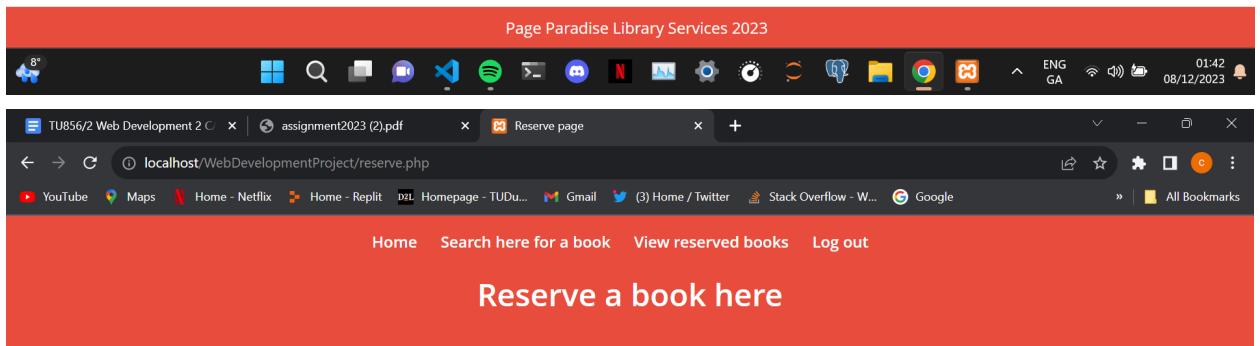
localhost/WebDevelopmentProject/home.php

Home Search for a book View reserved books Log out

Welcome to Page Paradise Library

Welcome back to the library, tommy100

User Registration and Login: Access the system by registering or logging in. New users can easily create an account with a unique username for identification. **Search for a Book:** Find books by title, author, or category. We support partial searches for titles and authors, and categories are retrieved from the database. **Search Results:** Search results are neatly displayed results. View book details and reserve available books. **Reserve a Book:** Secure your book reservation if it's available. The system checks for prior reservations before confirming your booking and records the reservation date. **View Reserved Books:** Easily see a list of books you've reserved. Manage your reservations by removing them as needed.



Page Paradise Library Services 2023

TU856/2 Web Development 2 | assignment2023 (2).pdf | Reserve page

localhost/WebDevelopmentProject/reserve.php

YouTube Maps Home - Netflix Home - Replit Homepage - TUDu... Gmail (3) Home / Twitter Stack Overflow - W... Google

Home Search here for a book View reserved books Log out

Reserve a book here

This book is already reserved. [Go back to home](#)



Page Paradise Library Services 2023

localhost/WebDevelopmentProject/reserve.php

YouTube Maps Home - Netflix Home - Replit Homepage - TUDu... Gmail (3) Home / Twitter Stack Overflow - W... Google

Home Search here for a book View reserved books Log out

Reserve a book here

A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/view.php'. The page content is an orange header with 'Home', 'Search here for a book', 'View reserved books', and 'Log out' links. Below is a large white text area: 'Take a look at your reserved books'. At the bottom, a table lists one book: 'How to cook Italian food' by Jamie Oliver, reserved on '2008-10-11', with a red 'End' button.

Here are all your reserved books!

Book Title	Author	Reserve date	End this reservation
How to cook Italian food	Jamie Oliver	2008-10-11	End

A screenshot of a Windows taskbar. It includes icons for weather, file explorer, search, and various system and application icons. The system tray shows the date as 07/12/2023 and the time as 20:20. The text 'Page Paradise Library Services 2023' is displayed above the taskbar.

If you click log out you go back to the home page

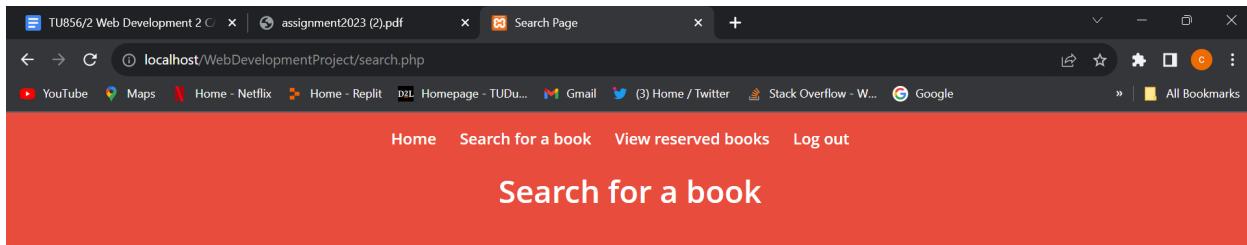
A screenshot of a web browser window. The address bar shows 'localhost/WebDevelopmentProject/home.php'. The page content is an orange header with 'Home', 'Search for a book', 'View reserved books', and 'Log out' links. Below is a large white text area: 'Welcome to Page Paradise Library'. To the right is a logo featuring a green circle containing three stylized buildings, with dark blue pages fanning out from behind it.

Welcome to Page Paradise Library, where reading comes to life. Established in 2010, we are dedicated to providing a haven for book enthusiasts. Explore our user-friendly system, featuring easy registration, efficient book searches, and a convenient reservation process. Dive into the joy of reading with Page Paradise Library.

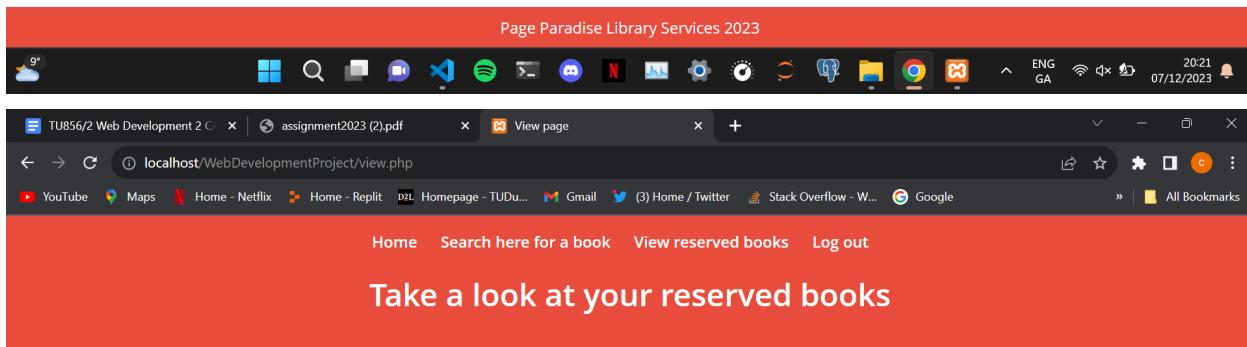
Thank you for being a part of our reading community. Happy reading!

Please [Log In](#) to start.

A screenshot of a Windows taskbar, identical to the one above, showing the date as 07/12/2023 and the time as 20:21. The text 'Page Paradise Library Services 2023' is displayed above the taskbar.



Please [Log In](#) to start.

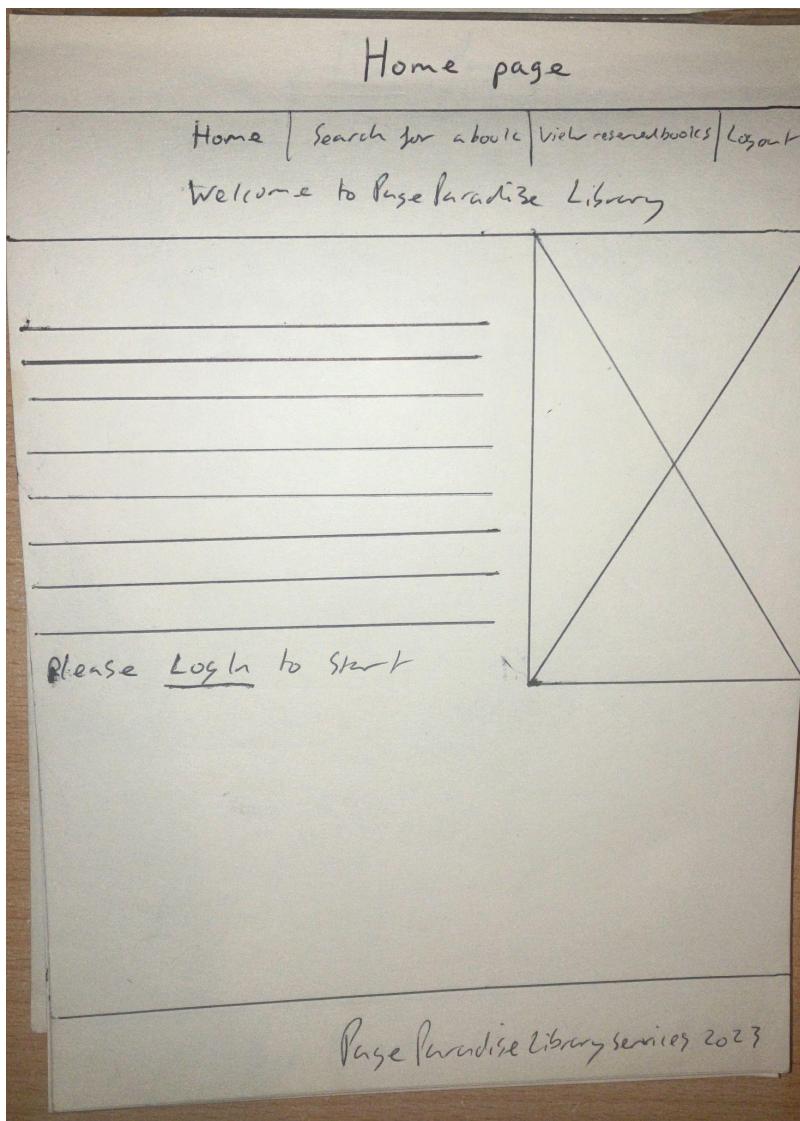


Please [Log In](#) to start.



Part 4. Design document using wireframes to illustrate the abstract layout of each page.

Home page



Login page

Home | Login Page
Search for a book / View reserved books / Logout

Username:

Password:

Are you not a member? Sign up

Page Paradise Library Services 2023

Registration page

Registration Page

Home | Search database | View reservations | Logout
Register here

Username :

Password :

Confirm Password :

First name :

Last name :

Address line 1 :

Address line 2 :

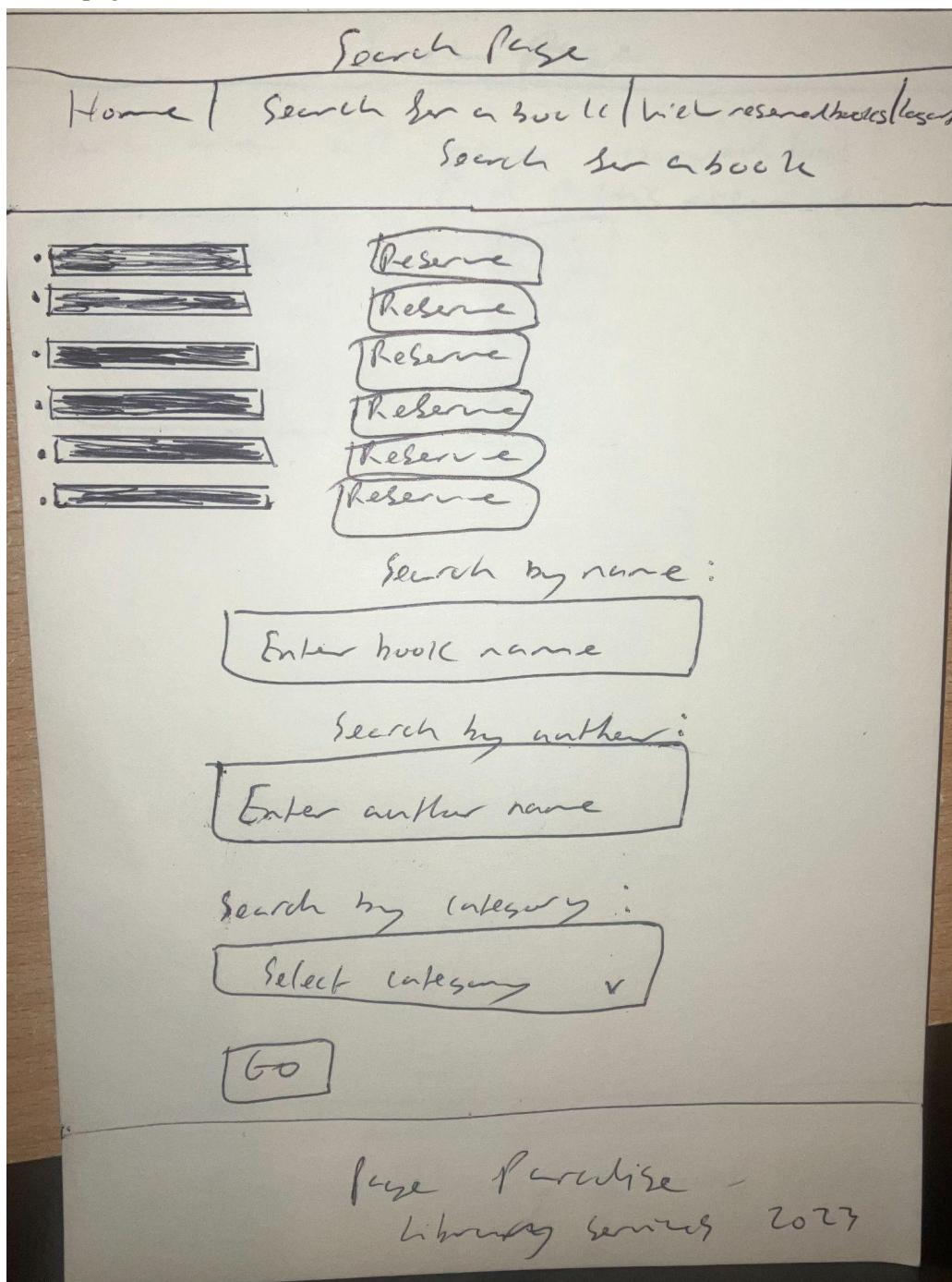
City :

Telephone : (with area code)

Mobile : (with area code)

Page Paradise Library services 2027

Search page



[View page](#)

