

All the Pages in the website:

1. Index.html
2. Login.php
3. Logout.php
4. DBconn.php
5. Myaccount.php
6. Register.php
7. Displaybooks.php
8. Reserve.php
9. Delete.php
10. Searchbar.php
11. Searchbook.php
12. Style.css

### [Index.html](#)

This page is the home page of the library website, has a header that will be reused throughout the other pages. The header displays the functionality of the online library, the user can clearly chose an option between creating an account, logging in, logging out, viewing their account (books), view all the books from the database, and search for a specific book.

This page doesn't have any php, it only connects all the other pages into a main one.

### [Login.php](#)

This page starts creating a session with the user that logs in by entering their username and password into the form. The users' details need to match the ones from the database. Once confirmed the user will be logged in.

### [Logout.php](#)

Using `session_destroy()` to log out. And then bring the user back to index.html

### [DBconn.php](#)

This is the file that connects every page on the website to the database so it can be updated for things like reserving a book, removing a book from your account, and registering.

### [Register.php](#)

This page allows a user to be registered into the database so they have access to all the online library. The user must fill up a form with 9 questions. They all need to be filled, the password must have 6 characters, the username must be unique, and the telephone and mobile must be 8 digits. I used `real_string_escape` to insert the strings into the database. Once the user has register they can log in and use the rest of the library.

### [Myaccount.php](#)

Using sql to display all the books the user has reserved. Then using a while loop to display all of those books in the table, there is also the option to remove or unreserve a book from your account. Also the user can add a new book, if they click on the button it will take them to the next page. If the user is not logged in this page will not be accessed. The user will be redirected to the index page.

### [Displaybooks.php](#)

This page displays all the books from the database. There is a limit of 5 books so the user has to press next page to continue their search. In this page the user is allowed to view every book from the database and reserve them if available. If the book is already reserved by another user, the book will be unavailable, It will say so in the table if 'Y' book is available, if 'N' the book is taken by someone else.

### Reserve.php

This file checks if the book is reserved or not, and in case it is not it will reserve it for the user that is occupying the session. This file updates the database by changing the isreserved status and adding it to the reservations table. It takes the details from the user to update the database.

### Delete.php

This file is used to remove or unreserve a book that a user has in their account. In the myaccount page they can choose to click delete and it will bring them to this page. The file updates the database by changing the isreserved status to a 'N', and also deleting the row from the reservations table.

### Searchbar.php

This page serves the user to search for a specific book, by title, author and/or category. The user must choose at least one of those elements. The category input is a dropdown type, it takes the categories from the database.

### Searchbook.php

This is the file that now displays the search result from the searchbar page. As the displaybook page this file has a limit of 5 rows in the table and has to click for next or previous page to view all books being displayed.

All the details from the books are being displayed just like the displaybookpage, the difference is that this file only shows the books that match the specifications from the user(title, author and/or category), what the user chose in the last page.

### Style.css

This is the styling file, the code in this file is reused throughout all the pages, so the website follows a consistent style and theme. It also makes it look better and clearer for the user to know how to properly navigate through the online library.

### Database

Table	Action	Rows	Type	Collation	Size	Overhead
books	Browse Structure Search Insert Empty Drop	14	InnoDB	utf8mb4_general_ci	32.0 Kib	-
categories	Browse Structure Search Insert Empty Drop	8	InnoDB	utf8mb4_general_ci	16.0 Kib	-
reservations	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	32.0 Kib	-
users	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 Kib	-
4 tables	Sum	27	InnoDB	utf8mb4_general_ci	96.0 Kib	0 B

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localhost / 127.0.0.1 / library / books

localhost/phpmyadmin/index.php?route=/sql&db=library&table=books&pos=0

Server: 127.0.0.1 » Database: library » Table: books

Browse Structure SQL Search Insert Export Import Privileges Operations

Show all Number of rows: 25 Filter rows: Search this table Sort by key: PRIMARY (ASC)

Extra options

ISBN	BookTitle	Author	Edition	Year	CategoryID	IsReserved
093-403992	Computers in Business	Alicia O'Neill	3	1997	3	N
23472-8729	Exploring Peru	Stephanie Birch	4	2005	5	N
237-34822	Business Strategy	Jo Peppard	2	2002	2	Y
23u8-923849	A guide to nutrition	John Thorpe	2	1997	1	N
2983-3494	Cooking for children	Anabelle Sharpe	1	2003	7	N
82nb-308	Computers for idiots	Susan O'Neill	5	1998	4	N
9823-23984	My life in pictures	Kevin Graham	8	2004	1	N
9823-2403-0	DaVinci Code	Dan Brown	1	2003	8	Y
9823-98345	My ranch in texas	George Bush	2	2005	7	N
9823-98487	How to cook Italian food	Jaime Oliver	1	2001	2	Y
98234-029384	Optimising your business	Cleo Blair	1	2005	1	N
988745-234	Tara Road	Maeve Binchy	4	2002	8	N
993-004-00	My life in bits	John Smith	1	2001	1	Y
9987-0039882	Shooting History	Jon Snow	3	2003	1	N

Check all With selected: Edit Copy Delete Export

localhost / 127.0.0.1 / library / categories

localhost/phpmyadmin/index.php?route=/sql&db=library&

Server: 127.0.0.1 » Database: library » Table: categories

Browse Structure SQL Search Insert Export Import

Showing rows 0 - 7 (8 total, Query took 0.0005 seconds.)

SELECT \* FROM `categories`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all Number of rows: 25 Filter rows: Search this table Sort

Extra options

CategoryID	CategoryDescrip
1	Health
2	Business
3	Biography
4	Technology
5	Travel
6	Self-Help
7	Cookery
8	Fiction

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort

Console

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Screenshot of the MySQL Workbench interface showing the 'reservations' table.

Table Structure:

ISBN	Username	ReservedDate
9823-98345	tommy100	2023-12-07
98234-029384	joecrotty	2008-10-11

Screenshot of the MySQL Workbench interface showing the 'users' table.

Table Structure:

Username	Password	FirstName	Surname	AddressLine1	AddressLine2	City	Telephone	Mobile
alanjmckenna	t1234s	Alan	McKenna	38 Cranley Road	Fairview	Dublin	9998377	856625567
kj7899	joecrotty	Joseph	Crotty	Apt 5 Clyde Road	Donnybrook	Dublin	8887889	876654456
123456	tommy100	Tom	Behan	14 Hyde Road	Dalkey	Dublin	9983747	876738782

## LIBRARY:

Screenshot of a web application for a library system.

Header:

- Logo: DUBLIN TECHNOLOGICAL UNIVERSITY LIBRARY
- Page Title: Library
- Navigation: Reserve a book, MyAccount, Login, Register, Log Out

Main Content:

Welcome to the Technological University of Dublin Library

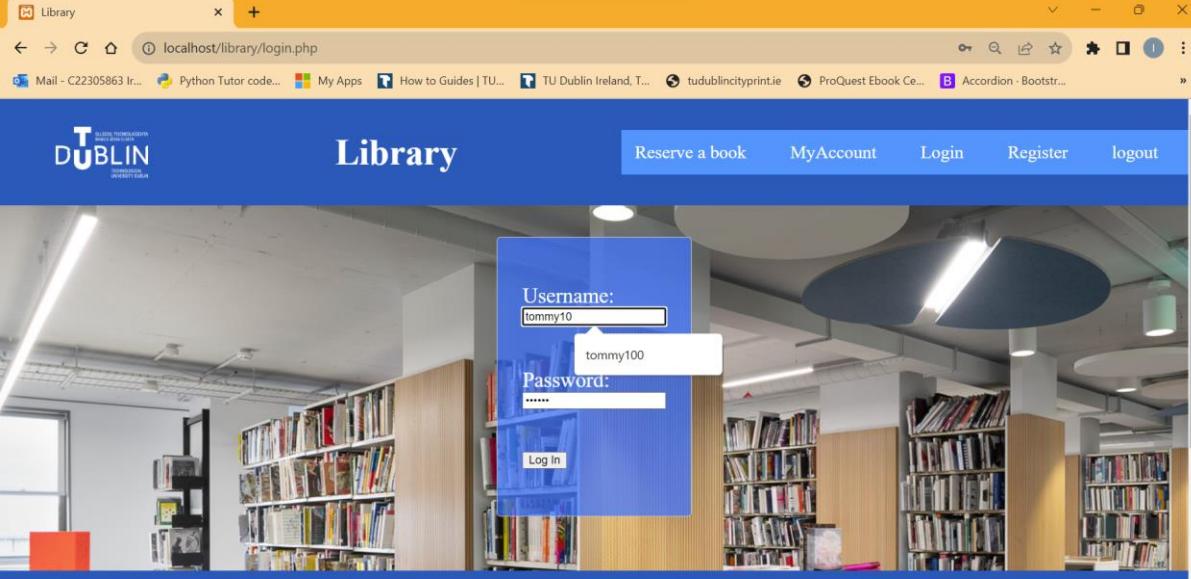
Call-to-action buttons:

- Reserve a book
- My Account
- Log In
- Register
- Search

Footer:

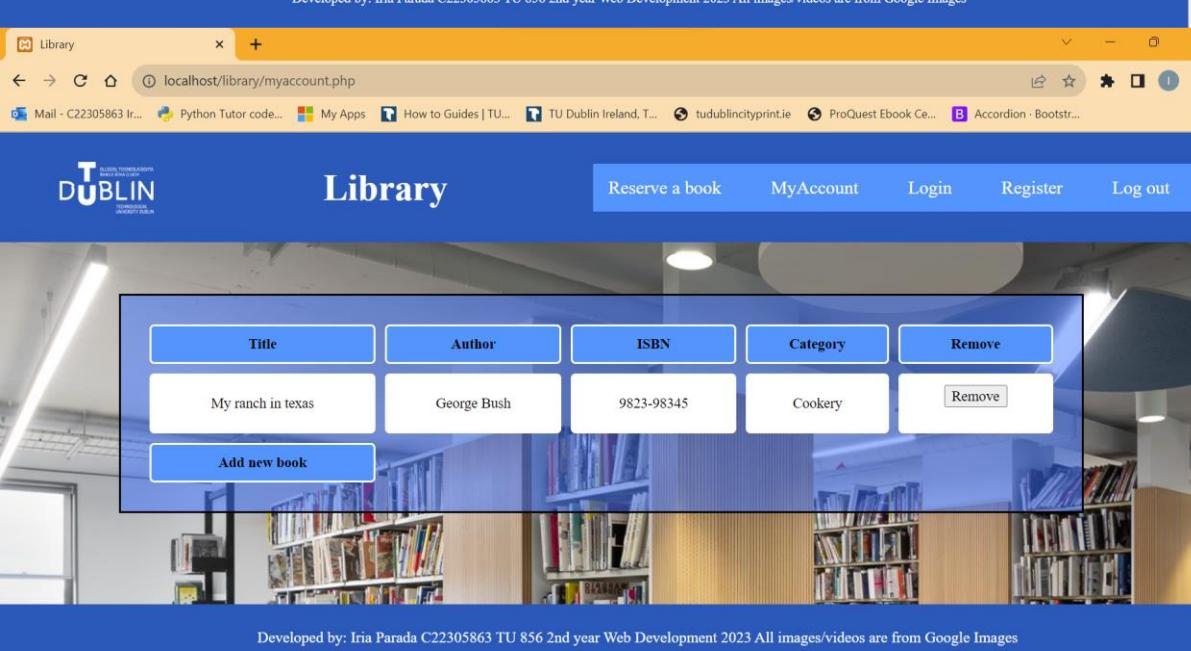
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# Iria Parada Murciego C22305863 Web Development Library Assignment



The screenshot shows a web browser window with the URL `localhost/library/login.php`. The page has a blue header with the word "Library" and the TU Dublin logo. On the right side of the header are links for "Reserve a book", "MyAccount", "Login", "Register", and "logout". Below the header is a photograph of a modern library interior with bookshelves and ceiling lights. A central modal window is open, prompting for a "Username" (with "tommy10" entered) and a "Password" (with "tommy100" entered). A "Log In" button is at the bottom of the modal.

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The screenshot shows a web browser window with the URL `localhost/library/myaccount.php`. The layout is similar to the login page, with the "Library" header and TU Dublin logo. The "MyAccount" link in the header is highlighted. Below the header is a photograph of the library interior. A central modal window displays a table with five columns: Title, Author, ISBN, Category, and Remove. The first row contains the data: "My ranch in texas", "George Bush", "9823-98345", "Cookery", and a "Remove" button. At the bottom of this modal is a blue "Add new book" button.

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Title	Author	ISBN	Category	Available	Add to your collection
Business Strategy	Joe Peppard	237-34823	Business	Yes	Reserve
How to cook italian food	Jaime Oliver	9823-98487	Business	Yes	Reserve
Computers in Business	Alicia O'Neill	093-403992	Biography	No	Reserve
Computers for idiots	Susan O'Neill	82n8-308	Technology	No	Reserve
Exploring Peru	Stephanie Birch	23472-8729	Travel	No	Reserve

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Book reserved successfully!

DUBLIN  
TECHNICAL UNIVERSITY OF DUBLIN

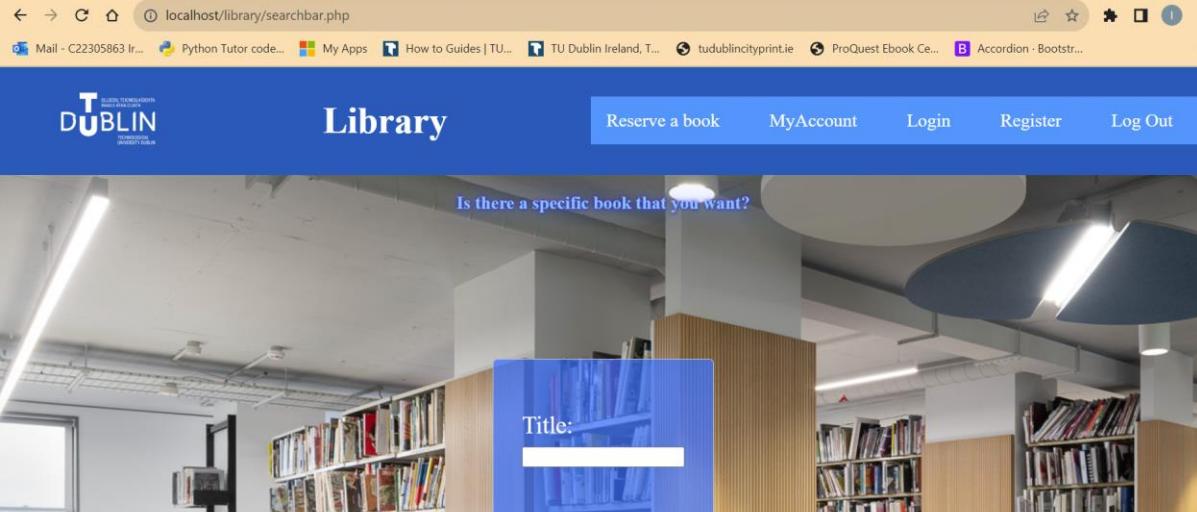
Library Reserve a book MyAccount Login Register logout

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Book has been unreserved



# Iria Parada Murciego C22305863 Web Development Library Assignment



localhost/library/searchbar.php

DUBLIN LIBRARY & INFORMATION SERVICES UNIVERSITY COLLEGE DUBLIN

## Library

Reserve a book MyAccount Login Register Log Out

Is there a specific book that you want?

Title:

Author:

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localhost/library/searchbar.php

DUBLIN LIBRARY & INFORMATION SERVICES UNIVERSITY COLLEGE DUBLIN

## Library

Reserve a book MyAccount Login Register Log Out

Title:

Author:

Category:

Submit

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localhost/library/searchbook.php?Title=&Author=&Category=7

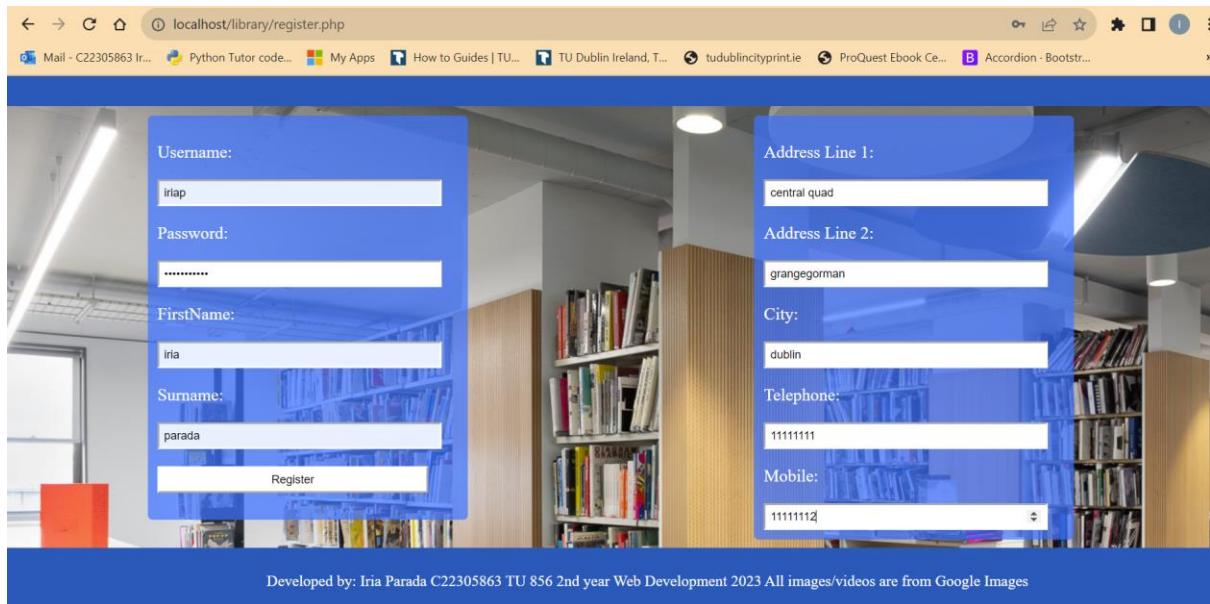
DUBLIN LIBRARY & INFORMATION SERVICES UNIVERSITY COLLEGE DUBLIN

## Library

Reserve a book MyAccount Login Register Log Out

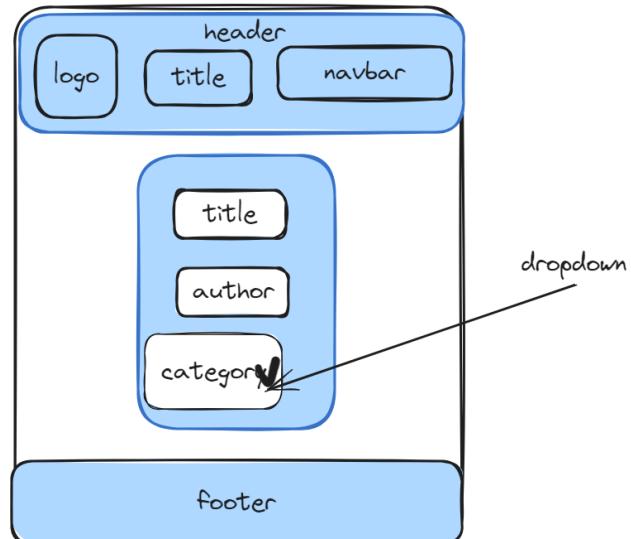
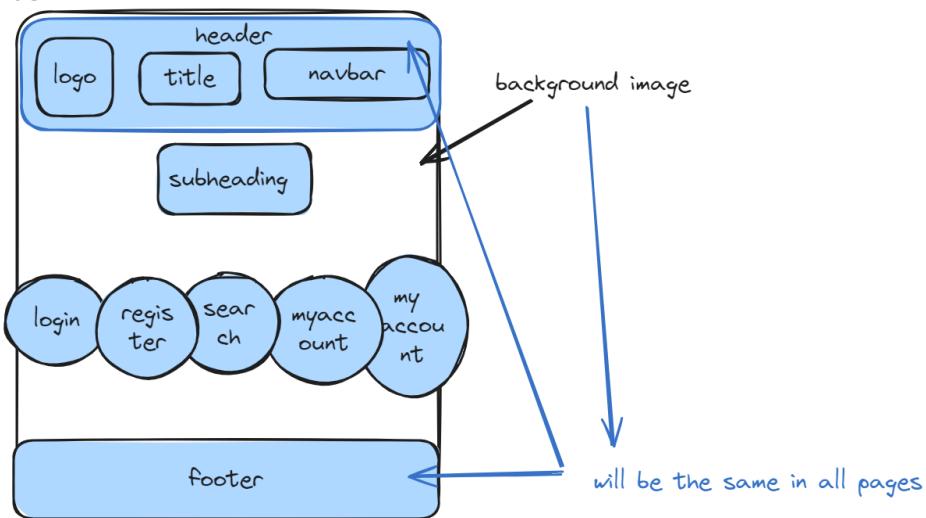
Title	Author	ISBN	Category	Available	Add to your collection
Cooking for children	Anabelle Sharpe	2983-3494	Cookery	No	Reserve
My ranch in texas	George Bush	9823-98345	Cookery	No	Reserve

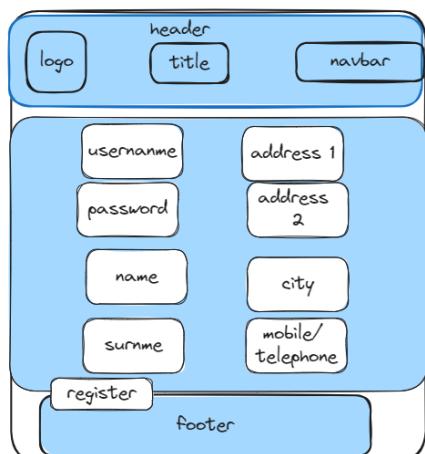
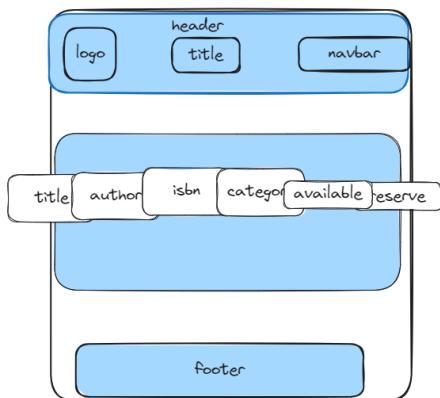
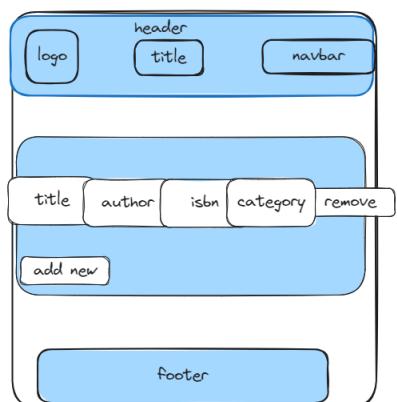
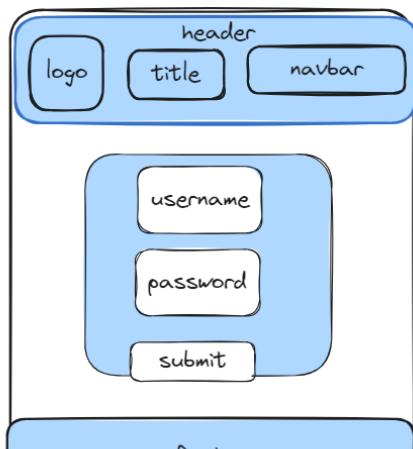
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*Design:*

*index*





**library\index.html**

```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Library</title>
8      <link rel="stylesheet" type="text/css" href="css\style.css">
9  </head>
10
11 <body style="background-image: url('images/background1.jpg');">
12
13     <header>
14
15         <div id="logo">
16             <a href="index.html"></a>
17         </div>
18         <div id="title">
19             <a href="index.html">
20                 <h1>Library</h1>
21             </a>
22         </div>
23         <div>
24             <ul class="navbar">
25                 <li><a href="displaybooks.php">Reserve a book</a></li>
26                 <li><a href="myaccount.php">MyAccount</a></li>
27                 <li><a href="login.php">Login</a></li>
28                 <li><a href="register.php">Register</a></li>
29                 <li><a href="logout.php">Log Out</a></li>
30             </ul>
31         </div>
32     </header>
33     <div id="content">
34         <h3>Welcome<br>to the<br>Technological University of Dublin<br>Library </h3>
35     </div>
36     <section>
37         <div class="buttonsfun">
38             <div class="button1">
39                 <a href="#Reserve a book">
40                     
41                     <h1>Reserve a book</h1>
42                 </a>
43             </div>
44             <div class="button1">
45                 <a href="login.php">
46                     
47                     <h1>My Account</h1>
48                 </a>
49             </div>
50             <div class="button1">
51                 <a href="login.php">
52                     
53                     <h1>Log In</h1>
54                 </a>
55             </div>
56             <div class="button1">
57                 <a href="register.php">
```

```
58             
59             <h1>Register</h1>
60         </a>
61     </div>
62     <div class="button1">
63         <a href="searchbar.php">
64             
65             <h1>Search</h1>
66         </a>
67     </div>
68 </div>
69 </section>
70 <br><br>
71 <br><br>
72
73
74 <footer class="footer">
75
76
77     <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
78         All images/videos are from <a href="https://images.google.com/">Google Images<
/a></p>
79
80 </footer>
81 </body>
82
83 </html>
```

## library\register.php

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <title>Library</title>
7     <link rel="stylesheet" type="text/css" href="css/style.css">
8
9 </head>
10 <body style="background-color: rgba(255,255,255, 2); background-image: url('
images/background1.jpg');" >
11     <header>
12         <div id="logo">
13             <a href="index.html"></a>
14         </div>
15         <div id="title">
16             <a href="index.html">
17                 <h1>Library</h1>
18             </a>
19         </div>
20         <div>
21             <ul class="navbar">
22                 <li><a href="displaybooks.php">Reserve a book</a></li>
23                 <li><a href="myaccount.php">MyAccount</a></li>
24                 <li><a href="login.php">Login</a></li>
25                 <li><a href="register.php">Register</a></li>
26             </ul>
27         </div>
28     </header>
29     <?php
30
31         $servername = "localhost";
32         $username = "root";
33         $password = "";
34         $dbname = "library";
35
36         require_once "DBconn.php";
37
38         if ($_SERVER["REQUEST_METHOD"] == "POST") {
39             // Check if all fields are filled
40             if (
41                 isset($_POST['Username']) && isset($_POST['Password']) &&
42                 isset($_POST['FirstName']) && isset($_POST['Surname']) &&
43                 isset($_POST['AddressLine1']) && isset($_POST['AddressLine2']) &&
44                 isset($_POST['City']) && isset($_POST['Telephone']) && isset($_POST['
Mobile']) )
45             )
46             {
47                 // Check if numbers are not empty
48                 $telephone = $_POST['Telephone'];
49                 $mobile = $_POST['Mobile'];
50
51                 if (!empty($telephone) && !empty($mobile))
52                 {
53                     // Check if numbers have 8 digits
54                     if (strlen($telephone) === 8 && strlen($mobile) === 10)
55                     {
```

```

56         $password = $_POST['Password'];
57         $confirmPassword = $_POST['ConfirmPassword'];
58         if(strlen($password)>= 6 && $password == $confirmPassword){
59
60             $n = $conn->real_escape_string($_POST['Username']);
61             $e = $conn->real_escape_string($_POST['Password']);
62             $p = $conn->real_escape_string($_POST['FirstName']);
63             $d = $conn->real_escape_string($_POST['Surname']);
64             $an = $conn->real_escape_string($_POST['AddressLine1']);
65             $ad = $conn->real_escape_string($_POST['AddressLine2']);
66             $ct = $conn->real_escape_string($_POST['City']);
67             $tl = $conn->real_escape_string($telephone);
68             $mb = $conn->real_escape_string($mobile);
69
70             $sql = "INSERT INTO users (Username, Password, FirstName,
71 Surname,AddressLine1,AddressLine2,City,Telephone,Mobile)
72                         VALUES ('$n', '$e', '$p','$d','$an','$ad','$ct','$tl',
73 '$mb')";
74             if ($conn->query($sql) === TRUE)
75             {
76                 echo "<h3 class='response'>You have been registered
77 successfully</h3>";
78             }
79
80         } } else
81         {
82             echo "<h3 class='response'>Error: Telephone and Mobile numbers
83 must have 8 digits.</h3>";
84         }
85     else
86     {
87         echo "<h3 class='response'>Error: All fields are required.</h3>";
88     }
89 }
90 ?>
91
92 <section>
93 <form class="forms" action="register.php" method="post">
94     <div class="formone" >
95         <p>Username:</p>
96         <input type="text" name="Username" required>
97         <p>Password:</p>
98         <input type="password" name="Password" required>
99         <p>FirstName:</p>
100        <input type="text" name="FirstName" required>
101        <p>Surname:</p>
102        <input type="text" name="Surname" required>
103        <p><input type="submit" value="Register"/></p>
104    </div>
105    <div class="formone" >
106        <p>Address Line 1:</p>
107        <input type="text" name="AddressLine1" required>
108        <p>Address Line 2:</p>
109        <input type="text" name="AddressLine2" required>
110        <p>City:</p>
111        <input type="text" name="City">
```

```
112     <p>Telephone:</p>
113     <input type="number" name="Telephone" required>
114     <p>Mobile:</p>
115     <input type="number" name="Mobile" required>
116   </div>
117
118 </form>
119 </section>
120 <footer class="footer">
121   <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
122   All images/videos are from <a href="https://images.google.com/">Google Images</a>
</p>
123
124 </footer>
125 </body>
126 </html>
```

## library\login.php

```
1 <?php
2 session_start(); //start a session with user
3 require_once "DBconn.php"; //connect with database
4 echo("<link rel='stylesheet' type='css' href='css/style.css'>"); //link with css
5 unset($_SESSION["Username"]);
6
7 ?>
8
9 <html lang="en">
10
11 <head>
12     <meta charset="UTF-8">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <title>Library</title>
15     <link rel="stylesheet" type="text/css" href="css\style.css">
16 </head>
17
18 <body style="background-image: url('images/background1.jpg');">
19
20     <header>
21
22         <div id="logo">
23             <a href="index.html"></a>
24         </div>
25         <div id="title">
26             <a href="index.html">
27                 <h1>Library</h1>
28             </a>
29         </div>
30         <div>
31             <ul class="navbar">
32                 <li><a href="displaybooks.php">Reserve a book</a></li>
33                 <li><a href="login.php">MyAccount</a></li>
34                 <li><a href="login.php">Login</a></li>
35                 <li><a href="register.php">Register</a></li>
36                 <li><a href="logout.php">logout</a></li>
37             </ul>
38         </div>
39     </header>
40     <div>
41         <br><br>
42             //user enters details
43             <form method="post" id="login" class="formone">
44                 <p>Username: <br><input type="text" name="Username" value=""></p>
45                 <p>Password:<br> <input type="password" name="Password" value=""></p>
46                 <p><input type="submit" value="Log In"></p>
47             </form>
48         <?php
49             //details need to match with info from the database
50             if (isset($_POST["Username"]) && isset($_POST["Password"]))
51             {
52                 $username = $_POST["Username"];
53                 $password = $_POST["Password"];
54
55                 $sql = "SELECT * FROM users WHERE Username = '$username' AND Password
56 = '$password'";
57                 $result = $conn->query($sql);
```

```

57
58         if ($result && $result->num_rows > 0)
59     {
60         // Fetch the user's ID
61         $row = $result->fetch_assoc();
62         $username = $row['Username'];
63
64         // Store the user's ID in the session
65         $_SESSION["Username"] = $username;
66         $_SESSION["Password"] = $password;
67         $_SESSION["success"] = "Logged in.";
68         header('Location: myaccount.php');
69         return;
70     } else
71     {
72         $_SESSION["error"] = "Incorrect username or password.";
73         header('Location: login.php');
74         return;
75     }
76 } elseif (count($_POST) > 0)
77 {
78     $_SESSION["error"] = "Missing Required Information";
79     header('Location: login.php');
80     return;
81 }
82
83 if ( isset($_SESSION["error"]) ) {
84 echo('<p class="formerror" >Error: '.
85 $_SESSION["error"]."</p>\n");
86 unset($_SESSION["error"]);
87 }
88 ?>
89 </div>
90
91 <br><br><br><br><br><br><br><br>
92
93 <footer class="footer">
94
95     <p class="footerlinks" >Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
96         All images/videos are from <a href="https://images.google.com/">Google Images</a>
</p>
97
98 </footer>
99 </body>
100
101 </html>

```

## library\reserve.php

```
1 <?php
2 session_start();
3 require_once "DBconn.php";
4
5 // Check if the user is logged in
6 if (!isset($_SESSION["Username"])) {
7     // Redirect to login page
8     header("Location: login.php");
9     exit();
10 }
11 // Fetch the username from the session
12 $username = $_SESSION["Username"];
13
14 // Get ISBN from the URL
15 $isbn = $_GET['isbn'];
16
17 // Check if the book is already reserved
18 $reservationCheckSql = "SELECT * FROM reservations WHERE ISBN = '$isbn' AND Username = '$username';";
19 $reservationCheckResult = $conn->query($reservationCheckSql);
20
21 if ($reservationCheckResult->num_rows > 0) {
22     echo "<p class='response'>Error: The book is already reserved by you.</p>";
23 } else {
24     // Reserve book
25     $reservationSql = "INSERT INTO reservations (ISBN, Username, ReservedDate) VALUES ('$isbn', '$username', CURDATE());";
26     $reservationResult = $conn->query($reservationSql);
27
28     if (!$reservationResult) {
29         echo "Error: " . $conn->error;
30     } else {
31         echo "<p class='response'>Book reserved successfully!</p>";
32     }
33 }
34 ?>
35 <!DOCTYPE html>
36 <html lang="en">
37 <head>
38     <meta charset="UTF-8">
39     <meta name="viewport" content="width=device-width, initial-scale=1.0">
40     <title>Library</title>
41     <link rel="stylesheet" type="text/css" href="css\style.css">
42 </head>
43 <body style="background-image: url('images/background1.jpg');">
44
45     <header>
46
47         <div id="logo">
48             <a href="index.html"></a>
49         </div>
50         <div id="title">
51             <a href="index.html">
52                 <h1>Library</h1>
53             </a>
54         </div>
55         <div>
```

```
56      <ul class="navbar">
57          <li><a href="displaybooks.php">Reserve a book</a></li>
58          <li><a href="myaccount.php">MyAccount</a></li>
59          <li><a href="login.php">Login</a></li>
60          <li><a href="register.php">Register</a></li>
61          <li><a href="logout.php">logout</a></li>
62      </ul>
63  </div>
64 </header>
65 <br><br><br>
66
67
68
69 <br><br><br><br>
70 <footer class="footer">
71
72
73      <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
74          All images/videos are from <a href="https://images.google.com/">Google Images<
/a></p>
75
76  </footer>
77 </body>
78 </html>
```

**library\myaccount.php**

```
1 <?php
2 require_once "DBconn.php";
3 session_start();
4
5 // Check if the user is logged in
6 if (!isset($_SESSION["Username"])) {
7     // Redirect to login page
8     header("Location: login.php");
9     exit();
10 }
11
12 // fetch the username from the session
13 $username = $_SESSION["Username"];
14
15 //select title,isbn,author,and category from the books the user has reserved
16 $sql = "SELECT c.CategoryDescrip, b.BookTitle, b.Author, b.ISBN
17         FROM
18         reservations r
19         JOIN
20         books b ON r.ISBN = b.ISBN
21         JOIN
22         categories c ON b.CategoryID = c.CategoryID
23         WHERE
24         r.Username = '$username';
25
26 $result = $conn->query($sql);
27
28 ?>
29 <html lang="en">
30
31 <head>
32     <meta charset="UTF-8">
33     <meta name="viewport" content="width=device-width, initial-scale=1.0">
34     <title>Library</title>
35     <link rel="stylesheet" type="text/css" href="css/style.css">
36 </head>
37
38 <body style="background-image: url('images/background1.jpg');">
39
40     <header>
41
42         <div id="logo">
43             <a href="index.html"></a>
44         </div>
45         <div id="title">
46             <a href="index.html">
47                 <h1>Library</h1>
48             </a>
49         </div>
50         <div>
51             <ul class="navbar">
52                 <li><a href="displaybooks.php">Reserve a book</a></li>
53                 <li><a href="myaccount.php">MyAccount</a></li>
54                 <li><a href="login.php">Login</a></li>
55                 <li><a href="register.php">Register</a></li>
56                 <li><a href="logout.php">Log out</a></li>
57             </ul>
```

```

58      </div>
59  </header>
60  <br><br><br>
61  <div>
62      <table class="tablereservations">
63          <tr>
64              <th>Title</th>
65              <th>Author</th>
66              <th>ISBN</th>
67              <th>Category</th>
68              <th>Remove</th>
69      </tr>
70
71      <?php
72      if ($result->num_rows > 0) {
73          while ($row = $result->fetch_assoc()) {
74      ?>
75          <tr>
76              <td><?php echo htmlentities($row["BookTitle"]); ?></td>
77              <td><?php echo htmlentities($row["Author"]); ?></td>
78              <td><?php echo htmlentities($row["ISBN"]); ?></td>
79              <td><?php echo htmlentities($row["CategoryDescrip"]); ?></td>
80
81              <td>
82                  <form action="delete.php" method="post">
83                      <input type="hidden" name="ISBN" value=<?php echo
htmlentities($row["ISBN"]); ?>">
84                      <button id="removebutton" type="submit">Remove</button>
85                  </form>
86              </td>
87
88          </tr>
89      <?php
90          }
91      } else {
92          echo "0 results";
93      }
94      ?>
95      <tr>
96          <th><a href="displaybooks.php">Add new book</a></th>
97      </tr>
98  </table>
99 </div>
100
101 <footer class="footer">
102     <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
103     All images/videos are from <a href="https://images.google.com/">Google Images</a>
</p>
104 </footer>
105 </body>
106
107 </html>

```

**library\displaybooks.php**

```
1 <?php
2 require_once "DBconn.php";
3 session_start();
4
5 // Check if the user is logged in
6 if (!isset($_SESSION["Username"])) {
7     // Redirect to login page
8     header("Location: login.php");
9     exit();
10}
11
12 // Fetch the username from the session
13 $username = $_SESSION["Username"];
14 $pagnum = isset($_GET['pagnum']) ? (int)$_GET['pagnum'] : 0;
15 $offset = $pagnum * 5;
16 //select all the info from the books and check if they are reserved Y or not N
17 $sql = "SELECT
18     ISBN,
19     BookTitle AS 'Title',
20     Author,
21     CategoryDescrip AS 'Category',
22     CASE WHEN IsReserved = 'Y' THEN 'Yes' ELSE 'No' END AS 'Reserved'
23     FROM
24     books
25     JOIN
26     categories ON books.CategoryID = categories.CategoryID
27     LIMIT 5 OFFSET $offset;";
28
29 $result = $conn->query($sql);
30
31?>
32<html lang="en">
33<head>
34    <meta charset="UTF-8">
35    <meta name="viewport" content="width=device-width, initial-scale=1.0">
36    <title>Library</title>
37    <link rel="stylesheet" type="text/css" href="css\style.css">
38</head>
39<body style="background-image: url('images/background1.jpg');">
40    <header>
41        <div id="logo">
42            <a href="index.html"></a>
43        </div>
44        <div id="title">
45            <a href="index.html">
46                <h1>Library</h1>
47            </a>
48        </div>
49        <div>
50            <ul class="navbar">
51                <li><a href="displaybooks.php">Reserve a book</a></li>
52                <li><a href="myaccount.php">MyAccount</a></li>
53                <li><a href="login.php">Login</a></li>
54                <li><a href="register.php">Register</a></li>
55                <li><a href="logout.php">logout</a></li>
56            </ul>
57        </div>
```

```
58     </header>
59     <br><br><br>
60     <div>
61         <table class="table-reservations">
62             <tr>
63                 <th>Title</th>
64                 <th>Author</th>
65                 <th>ISBN</th>
66                 <th>Category</th>
67                 <th>Available</th>
68                 <th>Add to your collection</th>
69             </tr>
70             <?php
71                 //while loop to display all the books
72                 if ($result->num_rows > 0) {
73                     while ($row = $result->fetch_assoc()) {
74                         echo "<tr><td>";
75                         echo (htmlentities($row["Title"]));
76                         echo ("</td><td>");
77                         echo (htmlentities($row["Author"]));
78                         echo ("</td><td>");
79                         echo (htmlentities($row["ISBN"]));
80                         echo ("</td><td>");
81                         echo (htmlentities($row["Category"]));
82                         echo ("</td><td>");
83                         echo (htmlentities($row["Reserved"]));
84                         echo ("</td><td>");
85                         echo ('<a href="reserve.php?isbn=' . htmlentities($row["ISBN"]) . '"');
Reserve</a> ');
86                         echo '</form>';
87                         echo "</td></tr>\n";
88                 } } else {
89                     echo "0 results";
90                 }
91             ?>
92
93         </table>
94         <div class="pagination">
95             <?php
96                 if ($result->num_rows > 0) {
97                     if ($pagnum > 0) {
98                         echo "<a href='?pagnum=" . ($pagnum - 1) . "'>Previous Page</a>";
99                     }
100                     echo " | ";
101                     echo "<a href='?pagnum=" . ($pagnum + 1) . "'>Next Page</a>";
102                 }
103             ?>
104         </div>
105     </div>
106     <br><br><br><br><br><br>
107     <footer class="footer">
108
109         <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
110             All images/videos are from <a href="https://images.google.com/">Google Images</a>
</p>
111         </footer>
112     </body>
113
114 </html>
```

## library\delete.php

```
1 <?php
2 session_start();
3 require_once "DBconn.php";
4 echo("<link rel='stylesheet' type='css' href='css/style.css'>");//link with css
5
6
7 // Check if the user is logged in
8 if (!isset($_SESSION["Username"])) {
9     // Redirect to login page
10    header("Location: login.php");
11    exit();
12 }
13
14
15 if (isset($_POST['ISBN'])) {
16     $isbn = $conn->real_escape_string($_POST['ISBN']);
17
18     // Update books table to set IsReserved to 'N'
19     $updateQuery = $conn->query("UPDATE books SET IsReserved = 'N' WHERE ISBN = '$isbn'");
20
21     // Delete the reservation entry
22     $deleteQuery = $conn->query("DELETE FROM reservations WHERE ISBN = '$isbn'");
23
24     if ($updateQuery && $deleteQuery) {
25
26         echo "<div class='response'><h2>Book has been unreserved</h2></div>";
27
28     } else {
29
30         echo "<div class='response'><h2>Error unreserving the book</h2></div>";
31
32     }
33 } else {
34
35     echo "<div class='response'><h2>ISBN not provided</h2></div>";
36
37 }
38 ?
39 ?>
40
```

## library\searchbar.php

```
1 <?php
2 require_once "DBconn.php";
3 //select details from the database
4 $query = $conn->query("SELECT CategoryID, CategoryDescrip FROM categories");
5
6 ?>
7 <!DOCTYPE html>
8 <html lang="en">
9
10 <head>
11   <meta charset="UTF-8">
12   <meta name="viewport" content="width=device-width, initial-scale=1.0">
13   <title>Library</title>
14   <link rel="stylesheet" type="text/css" href="css\style.css">
15 </head>
16
17 <body style="background-image: url('images/background1.jpg');">
18
19   <header>
20
21     <div id="logo">
22       <a href="index.html"></a>
23     </div>
24     <div id="title">
25       <a href="index.html">
26         <h1>Library</h1>
27       </a>
28     </div>
29     <div>
30       <ul class="navbar">
31         <li><a href="displaybooks.php">Reserve a book</a></li>
32         <li><a href="myaccount.php">MyAccount</a></li>
33         <li><a href="login.php">Login</a></li>
34         <li><a href="register.php">Register</a></li>
35         <li><a href="logout.php">Log Out</a></li>
36       </ul>
37     </div>
38   </header>
39   <div id="content">
40     <h3>Is there a specific book that you want? </h3>
41   </div>
42
43   <form action="searchbook.php" method="GET" id="login" class="formone">
44     <p>Title:<br><input type="text" name="Title" ></p>
45     <p>Author:<br> <input type="text" name="Author"></p>
46     <p>Category:<br>
47     <?php
48     echo "<select name='Category'>";
49     echo '<option value="">Select Category</option>';
50     //display the categories from the database
51     while ($row = $query->fetch_assoc()) {
52       $Catid = $row['CategoryID'];
53       $selectoption = $row['CategoryDescrip'];
54       echo '<option value="' . $Catid . '">' . $selectoption . '</option>';
55     }
56     echo "</select><br>";
57   ?>
```

```
58      </p>
59      <input type="submit" value="Submit">
60  </form>
61  <footer class="footer">
62    <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
63    All images/videos are from <a href="https://images.google.com/">Google Images<
/a></p>
64  </footer>
65</body>
66</html>
```

## library\searchbook.php

```
1 <?php
2 require_once "DBconn.php"; //connect with database
3 session_start(); //start a session with user
4 if (!isset($_SESSION["Username"])) {
5     header("Location: login.php");
6     exit();
7 }
8
9 // Fetch the username from the session
10 $username = $_SESSION["Username"];
11
12 function generateSearchQuery() {
13     $searchConditions = [];
14
15     if (!empty($_GET["Author"])) {
16         $searchConditions[] = sprintf("LOWER(Author) = LOWER('%s')", $_GET["Author"]);
17     }
18
19     if (!empty($_GET["Category"])) {
20         $searchConditions[] = sprintf("books.CategoryID = %d", $_GET["Category"]);
21     }
22
23     if (!empty($_GET["Title"])) {
24         $searchConditions[] = sprintf("LOWER(BookTitle) = LOWER('%s')", $_GET["Title"]);
25     }
26
27     // join conditions with OR
28     $searchQuery = implode(" OR ", $searchConditions);
29
30     $pagnum = isset($_GET['pagnum']) ? (int)$_GET['pagnum'] : 0;
31     $offset = $pagnum * 5;
32
33     //make 5 rows of a table with the books info
34     $searchQuery = "SELECT ISBN, BookTitle AS 'Title', Author, CategoryDescrip AS 'Category',
35                     CASE WHEN IsReserved = 'Y' THEN 'Yes' ELSE 'No' END AS 'Reserved'
36                     FROM books
37                     JOIN categories ON books.CategoryID = categories.CategoryID
38                     WHERE $searchQuery
39                     LIMIT 5 OFFSET $offset";
40
41     return $searchQuery;
42 }
43 //generate the URL for pagination links
44 function generatePaginationURL($pagnum) {
45     $urlParams = http_build_query(array_merge($_GET, ["pagnum" => $pagnum]));
46     return "searchbook.php?" . $urlParams;
47 }
48
49 $searchQuery = generateSearchQuery();
50
51 //error checking for searchbar, the form accepts at least one input, either author, or
52 //category or title or all
52 if (!empty($_GET["Author"]) || !empty($_GET["Category"]) || !empty($_GET["Title"])) {
53     $searchQuery = generateSearchQuery();
54
55     // Check if is not empty
```

```

56     if (!empty($searchQuery)) {
57         $result = $conn->query($searchQuery);
58
59         // Check if the result is not empty
60         if ($result === false) {
61             echo "Error: Database query error.";
62             header("refresh:2;url=searchbar.php");
63             exit();
64         }
65     } else {
66         echo "Error: Empty query.";
67         header("refresh:2;url=searchbar.php");
68         exit();
69     }
70 } else {
71     echo "Error: Please provide at least one search criteria.";
72     exit();
73 }
74 ?>
75 <!DOCTYPE html>
76 <html lang="en">
77
78 <head>
79     <meta charset="UTF-8">
80     <meta name="viewport" content="width=device-width, initial-scale=1.0">
81     <title>Library</title>
82     <link rel="stylesheet" type="text/css" href="css\style.css">
83 </head>
84
85 <body style="background-image: url('images/background1.jpg');">
86
87     <header>
88
89         <div id="logo">
90             <a href="index.html"></a>
91         </div>
92         <div id="title">
93             <a href="index.html">
94                 <h1>Library</h1>
95             </a>
96         </div>
97         <div>
98             <ul class="navbar">
99                 <li><a href="displaybooks.php">Reserve a book</a></li>
100                <li><a href="myaccount.php">MyAccount</a></li>
101                <li><a href="login.php">Login</a></li>
102                <li><a href="register.php">Register</a></li>
103                <li><a href="logout.php">Log Out</a></li>
104            </ul>
105        </div>
106    </header>
107
108    <br><br><br>
109    <div>
110        <table class="tablereservations">
111            <tr>
112                <th>Title</th>
113                <th>Author</th>
114                <th>ISBN</th>
115                <th>Category</th>

```

```

116             <th>Available</th>
117             <th>Add to your collection</th>
118         </tr>
119         <?php
120         if ($result->num_rows > 0) {
121             while ($row = $result->fetch_assoc()) {
122                 echo "<tr><td>";
123                 echo (htmlentities($row["Title"]));
124                 echo ("</td><td>");
125                 echo (htmlentities($row["Author"]));
126                 echo ("</td><td>");
127                 echo (htmlentities($row["ISBN"]));
128                 echo ("</td><td>");
129                 echo (htmlentities($row["Category"]));
130                 echo ("</td><td>");
131                 echo (htmlentities($row["Reserved"]));
132                 echo ("</td><td>");
133                 echo ('<a href="reserve.php?isbn=' . htmlentities($row["ISBN"]) . '"');
134                 Reserve</a> ');
135             }
136         } else {
137             echo "<tr><td colspan='6'>No results found.</td></tr>";
138         }
139     ?>
140     </table>
141 </div>
142 <br><br><br><br><br>
143 <div class="pagination">
144     <?php
145     // Check if pagnum exists in $_GET array
146     if (isset($_GET['pagnum'])) {
147         $pagnum = (int)$_GET['pagnum'];
148
149         // Check in case there are more results
150         if ($result->num_rows > 0) {
151             if ($pagnum > 0) {
152                 echo "<a href='" . generatePaginationURL($pagnum - 1) . "'>Previous
Page</a>";
153             }
154             echo " | ";
155             echo "<a href='" . generatePaginationURL($pagnum + 1) . "'>Next Page</a>";
156         }
157     }
158     ?>
159 </div>
160
161 <footer class="footer">
162     <p class="footerlinks">Developed by: Iria Parada C22305863 TU 856 2nd year Web
Development 2023
163     All images/videos are from <a href="https://images.google.com/">Google Images<
/a></p>
164     </footer>
165 </body>
166
167 </html>

```

## library\DBconn.php

```
1 <?php
2 $servername = "localhost";
3 $username = "root";
4 $password = "";
5 $dbname = "library";
6
7 // Create connection
8 $conn = new mysqli($servername, $username, $password, $dbname);
9
10 // Check connection
11 if ($conn->connect_error) {
12     die("Connection failed: " . $conn->connect_error);
13 }
14 if (!$conn->select_db($dbname)) {
15     die("Could not select database");
16 }
17 ?>
```

**library\logout.php**

```
1 | <?php
2 |
3 | session_start();
4 | session_destroy(); //log out remove user from session
5 | echo("<link rel='stylesheet' type='css' href='css/style.css'>"); //link with css
6 | echo "<h3 class='response'>You have been successfully logged out.</h3>";
7 | header("Location: index.html");
8 |
9 | exit;
10|
11| ?>
```

## library\css\style.css

```
1 body {
2     display: flex;
3     flex-direction: column;
4     min-height: 150vh;
5     margin: 0;
6 }
7
8 main {
9     flex: 1;
10}
11
12 /* _____header_____ */
13 header {
14     background-color: #0359b5;
15     color: white;
16     padding: 10px;
17     padding-right: 0;
18     display: flex;
19     align-items: center;
20     justify-content: space-between;
21     margin: 0;
22 }
23
24
25 #logo a:hover {
26     cursor: pointer;
27 }
28
29 #logo {
30     width: 10vw;
31     margin-right: 10px;
32     margin-left: 20px;
33 }
34
35 #logo img {
36     width: 10vw;
37     margin-right: 10px;
38     margin-left: 20px;
39 }
40
41 #title {
42     font-size: 1.5vw;
43     margin-left: 20px;
44 }
45
46 #title a {
47     text-decoration: none;
48     color: white
49 }
50
51 ul.navbar {
52     list-style-type: none;
53     margin: 0;
54     padding: 0;
55     overflow: hidden;
56     background-color: #3895f8;
57 }
```

```
58
59 ul.navbar li {
60   float: left;
61   font-size: 1.5vw;
62   margin-right: 20px;
63 }
64
65 ul.navbar li a {
66   display: block;
67   color: white
68   text-align: center;
69   padding: 14px 16px;
70   text-decoration: none;
71 }
72
73 ul.navbar li a:hover {
74   background-color: #0359b5;
75   color: #dddddd;
76 }
77
78 /* _____content_____ */
79 #content h3 {
80   text-align: center;
81   text-shadow: 1px 1px 2px #0359b5, 0 0 25px rgb(0, 115, 255), 0 0 5px rgb(4, 4, 255);
82   color: #89bef7;
83 }
84
85 /* _____buttons_____ */
86
87 .buttonsfun {
88   display: flex;
89   justify-content: space-around;
90   flex-wrap: wrap;
91 }
92
93 .button1 {
94   flex: 1 0 200px;
95   max-width: 200px;
96 }
97
98 .button1 a {
99   text-decoration: none;
100 }
101
102 div.button1 {
103   width: 210px;
104   height: 210px;
105   margin: 40px auto;
106   position: relative;
107
108 }
109
110 div.button1 img {
111   border-radius: 50%;
112   border: 4px fff solid;
113   -webkit-box-shadow: 0px 0px 20px 0px #028ac4;
114   box-shadow: 0px 0px 20px 0px #0359b5;
115   width: 100%;
116   height: 100;
```

```
117     position: absolute;
118     top: 50%;
119     left: 50%;
120     transform: translate(-50%, -50%);
121 }
122
123 div.button1 h1 {
124     text-align: center;
125     margin-top: -0.1em;
126     font-size: 43px;
127     text-shadow: 1px 1px 2px #277dd9, 0 0 25px rgb(69, 149, 246), 0 0 5px rgb(4, 138, 255)
128 ;
129     color: #044e9d;
130     position: absolute;
131     top: 50%;
132     left: 50%;
133     transform: translate(-50%, -50%);
134 }
135
136 .button1:hover {
137     transform: scale(1.2);
138     cursor: pointer;
139 }
140 /*—————*/
141 #login {
142     width: fit-content;
143     padding: 30px;
144     border: 1px solid #ccc;
145     border-radius: 5px;
146     margin: auto;
147     position: relative;
148     display: grid;
149     align-items: center;
150     align-content: center;
151     font-size: 25px;
152 }
153
154 .forms {
155     display: grid;
156     grid-template-columns: 1fr 1fr;
157     grid-gap: 5px;
158 }
159
160 .formone {
161     color: rgb(255, 255, 255);
162     font-size: 18px;
163     background-color: rgba(0, 115, 255, 0.7);
164     align-items: center;
165     width: 50%;
166     padding: 10px;
167     margin: auto;
168     border-radius: 5px;
169     margin-top: 10px;
170 }
171 /*—————*/
172
173
174 .response {
175     position: fixed;
```

```
176     top: 0;
177     left: 50%;
178     transform: translateX(-50%);
179     text-align: center;
180     color: rgb(254, 1, 1);
181     font-size: 18px;
182     background-color: rgba(255, 255, 255, 0.7);
183     align-items: center;
184     width: fit-content;
185     padding: 5px;
186     margin: auto;
187 }
188
189 .forms input {
190     background-color: white
191     border-color: white
192     display: block;
193     font-size: 12px;
194     padding: 5px;
195     width: 90%;
196 }
197
198
199 .forms input:focus {
200     outline: 0;
201 }
202 .forms input:focus {
203     outline: 0;
204 }
205
206 .forms.success input {
207     border-color: #09c372;
208 }
209
210 .forms.error input {
211     border-color: #ff0000;
212 }
213
214 .formerror {
215     position: fixed;
216     top: 0;
217     left: 50%;
218     transform: translateX(-50%);
219     text-align: center;
220     color: rgb(254, 1, 1);
221     font-size: 18px;
222     background-color: rgba(255, 255, 255, 0.7);
223     align-items: center;
224     width: fit-content;
225     padding: 5px;
226     margin: auto;
227 }
228
229
230
231 #submitbtn :hover {
232     cursor: pointer;
233 }
234
```

```
235 .tablereservations {
236     padding: 20px;
237     border: ■ #000000 solid 2px;
238     margin: auto;
239     width: 80%;
240     background-color: rgba(0, 115, 255, 0.5);
241     font-size: 15px;
242     border-collapse: separate;
243     border-spacing: 10px;
244 }
245
246 .tablereservations td{
247     border: □ #ffffff solid;
248     border-radius: 5px;
249     background-color: □ #ffffff;
250     padding: 10px;
251     text-align: center;
252     color:■ black
253 }
254
255 .tablereservations th {
256     border: □ #ffffff solid;
257     border-radius: 5px;
258     background-color: ■ #3895f8;
259     padding: 10px;
260     text-align: center;
261     color:■ black
262 }
263 .tablereservations a{
264     color: ■ #000000;
265     text-decoration: none;
266 }
267
268
269 #removebutton{
270     font-family: inherit;
271     font-size: inherit;
272     color: inherit;
273     cursor: pointer;
274
275 }
276
277
278 .pagination {
279     display: flex;
280     justify-content: center;
281     align-items: center;
282     margin-top: 20px;
283
284 }
285
286 .pagination a {
287     color: ■ black
288     padding: 8px 16px;
289     text-decoration: none;
290     margin: 0 5px;
291     background-color: □ white
292
293 }
```

```
294
295
296
297 /* footer */
298 footer {
299     align-items: center;
300     justify-content: center;
301     text-align: center;
302     position: fixed;
303     bottom: 0;
304     width: 100%;
305     background-color: #0359b5;
306     color: #fff;
307     padding: 10px;
308     display: flex;
309 }
310
311 .footerlinks a:link {
312     color: #ffffff;
313 }
314
315 .footerlinks a:visited {
316     color: rgb(91, 168, 240);
317 }
318
319 .footerlinks a:hover {
320     color: #08dbe;
321     cursor: pointer;
322 }
323
324 .footerlinks a:active {
325     color: #000000;
326 }
327
328 .footerlinks a {
329     text-decoration: none;
330 }
331
332 .footer p {
333     margin-left: 10vh;
334 }
335 }
```