

WebDev2 Assignment Report

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List of pages used:

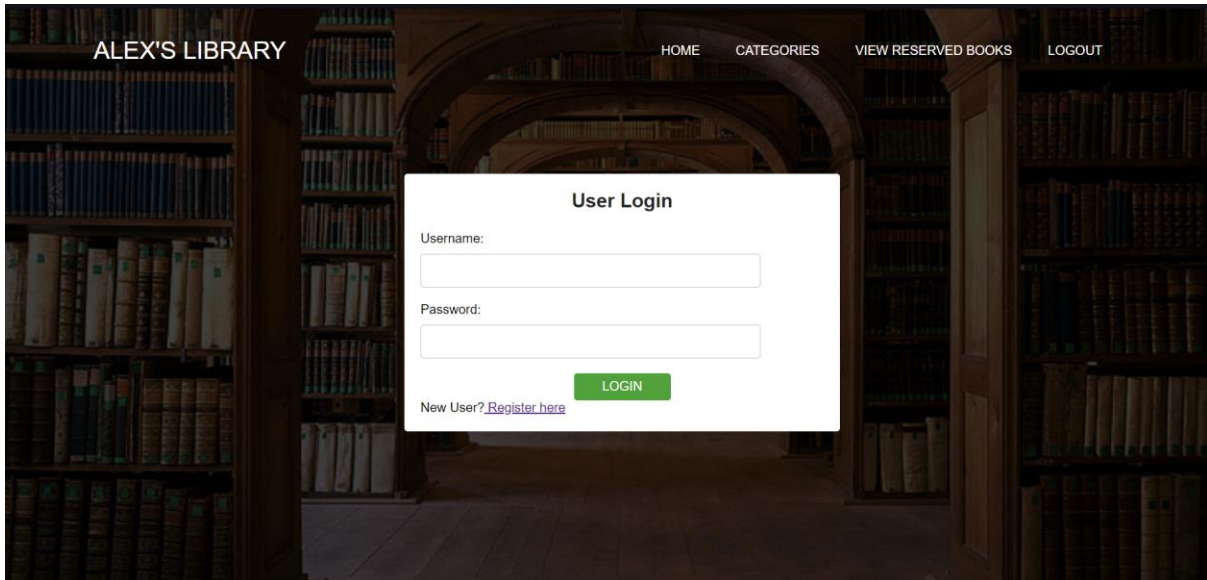
- database.php
- register.php
- login.php
- index.php
- categories.php
- view.php
- remove.php
- reserve.php
- logout.php
- style.css

database.php

This is a simple page that establishes a connection to the library database in phpMyAdmin. It is included on every page used in the assignment via the “require_once” function.

```
LibraryWebsite > database.php
1  <?php
2  $servername = "localhost";
3  $username = "root";
4  $password = "";
5  $dbname = "librarywebsite";
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
15 ?>
```

login.php



ALEX'S LIBRARY

HOME CATEGORIES VIEW RESERVED BOOKS LOGOUT

User Login

Username:

Password:

New User? [Register here](#)

This is the page that the user is greeted with upon loading up the website. If they are new to the website, they are prompted with a link to a page where they can register their details. All other pages are locked until the user has identified themselves to the system. Both the username and password must match for them to gain access to the website. If they login in successfully they are brought to the home page (index.php).

LibraryWebsite > login.php

```
1  <?php
2  session_start();
3  ?>
4
5  <?php
6  require_once "database.php";
7
8  if (isset($_POST['Username']) && isset($_POST['Password'])) {
9      $un = $_POST['Username'];
10     $pw = $_POST['Password'];
11
12     $sql = "SELECT Username, Password FROM users WHERE Username = '$un' AND Password = '$pw'";
13     $result = $conn->query($sql);
14
15     if ($result != false && $result->num_rows > 0) {
16         $_SESSION["un"] = $un;
17         $_SESSION["success"] = "Login Successful!";
18         header('Location: index.php');
19         exit();
20     } else {
21         $_SESSION["Error"] = "Incorrect username or password. Please try again!";
22         header('Location: login.php');
23         exit();
24     }
25 }
26
27 ?>
28
29 <!DOCTYPE html>
30 <html lang="en">
31 <head>
32     <meta charset="UTF-8">
33     <meta name="viewport" content="width=device-width, initial-scale=1.0">
34     <title>Alex's Library</title>
35     <link rel="stylesheet" href="style.css">
36 </head>
37 <body>
38     <div class="banner">
39         <div class="navbar">
40             <label class="logo">Alex's Library</label>
41             <ul>
42                 <li><a href="index.php">Home</a></li>
43                 <li><a href="categories.php">Categories</a></li>
44                 <li><a href="view.php">View Reserved Books</a></li>
45                 <li><a href="logout.php">Logout</a></li>
46             </ul>
47         </div>
48
49         <?php
50         if (isset($_SESSION["Error"])) {
51             echo("<script>alert('".$_SESSION["Error"]."')</script>");
52             unset($_SESSION["Error"]);
53         }
54         ?>
55
56         <div class="login-container">
57             <form method="post">
58                 <h2>User Login</h2>
59                 <div class="form-group">
60                     <label for="username">Username: </label>
61                     <input type="text" class="form-control" name="Username" required>
62                 </div>
63                 <div class="form-group">
64                     <label for="password">Password: </label>
65                     <input type="password" class="form-control" name="Password" required>
66                 </div>
67                 <input type="submit" class="button" value="Login">
68                 <p>New User?<a href="register.php"> Register here</a></p>
69             </form>
70         </div>
71     </div>
72 </body>
73 </html>
```

register.php

ALEX'S LIBRARY HOME CATEGORIES VIEW RESERVED BOOKS LOGIN LOGOUT

Registration

Username:

Password:
 Must be 6 characters

Confirm Password:
 Must be 6 characters

First Name:

Surname:

Address Line 1:

Address Line 2:

City:

Telephone Number:

Mobile Number:
 Mobile phone numbers must 10 numbers in length

REGISTER

The register page contains a simple form that captured the users details and inserts them into the users table in the database. There is error checking that validates that the passwords entered match and that they are 6 characters in length. There is also error checking to make sure that the Telephone number and mobile phone numbers are fully numeric and that the mobile number is 10 numbers in length. The user is still unable to access the main page however they can go back to the login page via the navbar. Upon successfully registering their details they are redirected to the login page.

```

LibraryWebsite > register.php
1  <?php
2      session_start();
3  ?>
4
5  <?php
6      require_once "database.php";
7
8      if ( isset($_POST['Username']) && isset($_POST['Password']) && isset($_POST['ConPassword'])
9          && isset($_POST['FirstName']) && isset($_POST['Surname']) && isset($_POST['AddressLine1'])
10         && isset($_POST['AddressLine2']) && isset($_POST['City']) && isset($_POST['Telephone']) && isset($_POST['Mobile'])) {
11         $un = $_POST['Username'];
12         $pw = $_POST['Password'];
13         $cpw = $_POST['ConPassword'];
14
15         if ($pw != $cpw) {
16             $_SESSION["Error"] = "Passwords do not match";
17             header('Location: register.php');
18             exit();
19         }
20
21         if (strlen($pw) != 6){
22             $_SESSION["Error"] = "Passwords must be 6 characters in length";
23             header('Location: register.php');
24             exit();
25         }
26
27         $fn = $_POST['FirstName'];
28         $sn = $_POST['Surname'];
29         $ad1 = $_POST['AddressLine1'];
30         $ad2 = $_POST['AddressLine2'];
31         $city = $_POST['City'];
32         $tel = $_POST['Telephone'];
33
34         if(is_numeric($tel) == FALSE){
35             $_SESSION["Error"] = "Telephone number must be fully numeric";
36             header('Location: register.php');
37             exit();
38         }
39
40         $mob = $_POST['Mobile'];
41
42         if(strlen($mob) != 10){
43             $_SESSION["Error"] = "Mobile number must be 10 characters in length";
44             header('Location: register.php');
45             exit();
46         }
47
48         if(is_numeric($mob) == FALSE){
49             $_SESSION["Error"] = "Mobile number must be fully numeric";
50             header('Location: register.php');
51             exit();
52         }
53

```

```

54         $sql = "INSERT INTO users (Username, Password, FirstName, Surname, AddressLine1, AddressLine2, City, Telephone, Mobil
55             VALUES ('$un', '$pw', '$fn', '$sn', '$ad1', '$ad2', '$city', '$tel', '$mob')";
56
57         if ($conn->query($sql) == TRUE){
58             echo '<script>alert("New user registered successfully");</script>';
59             header('Location: login.php');
60         }
61
62         else{
63             echo "Error: " . $sql . "<br>" . $conn->error;
64         }
65
66         $conn->close();
67     }
68 }
69 ?>
70
71 <!DOCTYPE html>
72 <html lang="en">
73 <head>
74     <meta charset="UTF-8">
75     <meta name="viewport" content="width=device-width, initial-scale=1.0">
76     <title>Alex's Library</title>
77     <link rel="stylesheet" href="style.css">
78 </head>
79 <body>
80     <div class="banner-register">
81         <div class="navbar">
82             <label class="logo">Alex's Library</label>
83             <ul>
84                 <li><a href="index.php">Home</a></li>
85                 <li><a href="#">Categories</a></li>
86                 <li><a href="view.php">View Reserved Books</a></li>
87                 <li><a href="login.php">Login</a></li>
88                 <li><a href="logout.php">Logout</a></li>
89             </ul>
90         </div>
91
92         <?php
93             if (isset($_SESSION["Error"])) {
94                 echo("<script>alert('".$_SESSION["Error"]."')</script>");
95                 unset($_SESSION["Error"]);
96             }
97         ?>
98

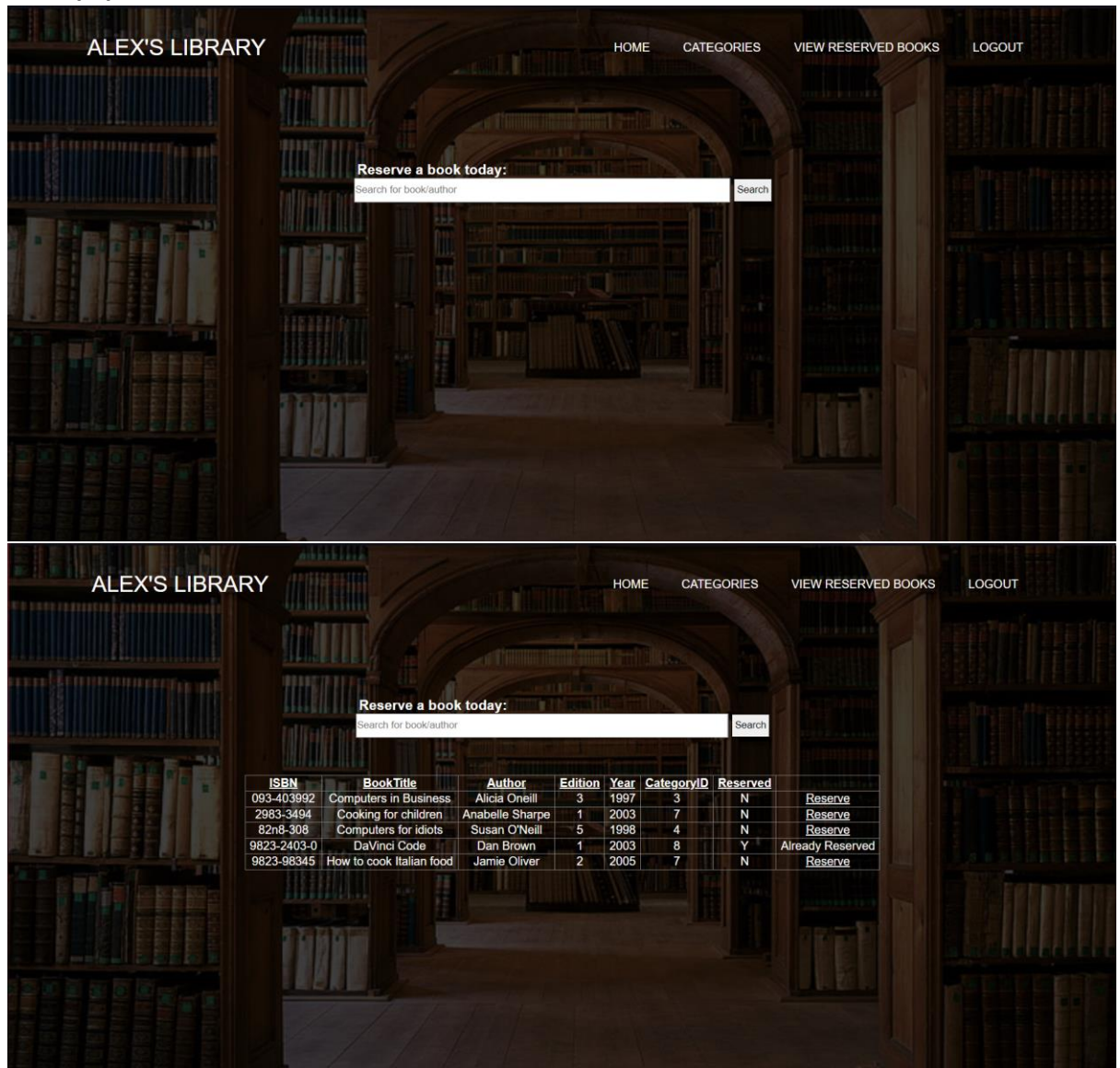
```

```

99     <div class="register-container">
100         <form method="post">
101             <h2>Registration</h2>
102             <div class="form-group">
103                 <label for="Username">Username: </label>
104                 <input type="text" class="form-control" name="Username" required>
105             </div>
106             <div class="form-group">
107                 <label for="Password">Password: </label>
108                 <input type="password" class="form-control" name="Password" placeholder="Must be 6 characters" required>
109             </div>
110             <div class="form-group">
111                 <label for="ConPassword">Confirm Password: </label>
112                 <input type="password" class="form-control" name="ConPassword" placeholder="Must be 6 characters" required>
113             </div>
114             <div class="form-group">
115                 <label for="FirstName">First Name: </label>
116                 <input type="text" class="form-control" name="FirstName" required>
117             </div>
118             <div class="form-group">
119                 <label for="Surname">Surname: </label>
120                 <input type="text" class="form-control" name="Surname" required>
121             </div>
122             <div class="form-group">
123                 <label for="AddressLine1">Address Line 1: </label>
124                 <input type="text" class="form-control" name="AddressLine1" required>
125             </div>
126             <div class="form-group">
127                 <label for="AddressLine2">Address Line 2: </label>
128                 <input type="text" class="form-control" name="AddressLine2" required>
129             </div>
130             <div class="form-group">
131                 <label for="City">City:</label>
132                 <input type="text" class="form-control" name="City" required>
133             </div>
134             <div class="form-group">
135                 <label for="Telephone">Telephone Number: </label>
136                 <input type="text" class="form-control" name="Telephone" required>
137             </div>
138             <div class="form-group">
139                 <label for="Mobile">Mobile Number: </label>
140                 <input type="text" class="form-control" name="Mobile" placeholder="Mobile phone numbers must 10 numbers in length" required>
141             </div>
142             <input type="submit" class="button" value="Register">
143         </form>
144     </div>
145 </div>
146 </body>
147 </html>
148

```

index.php



This is the main home page of the website. It verifies that the user is logged in by checking if the `$_Session["success"]` variable is set. If it is not set the user is redirected to the login page. This is the case for every page going forwards. There is now a fully functioning navbar that allows the user to move between the pages. There is a search bar on the page that allows the user to search for books via author or book title, including a partial search. The results are then displayed in a table. If a book has not yet been reserved there is a link provided (reserve.php) which will allow the user to reserve that book. If a book has already been reserved the user is notified of this in the table.

LibraryWebsite > index.php

```
1 <?php
2 session_start();
3 if(!isset($_SESSION['success']))
4 {
5     header("Location:Login.php");
6 }
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="en">
11 <head>
12     <meta charset="UTF-8">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <title>Alex's Library</title>
15     <link rel="stylesheet" href="style.css">
16 </head>
17 <body>
18     <div class="banner">
19         <div class="navbar">
20             <label class="logo">Alex's Library</label>
21             <ul>
22                 <li><a href="#">Home</a></li>
23                 <li><a href="categories.php">Categories</a></li>
24                 <li><a href="view.php">View Reserved Books</a></li>
25                 <li><a href="logout.php">Logout</a></li>
26             </ul>
27         </div>
28         <form method="post">
29             <div class="searchbar">
30                 <label for="search"><h3>Reserve a book today:</h3></label>
31                 <input class="textbox" type="text" name="search" placeholder="Search for book/author">
32                 <button type="submit">Search</button>
33             </div>
34         </form>
35     </div>
36 </body>
37 </html>
```

```
34 </form>
35 </div>
36 <?php
37 require_once "database.php";
38 if (isset($_POST["search"])){
39     $search = trim($_POST["search"]);
40     if ($search == "") {
41         exit();
42     }
43     $sql = "SELECT * FROM books WHERE (BookTitle like '%$search%' OR Author like '%$search%')";
44     $result = $conn->query($sql);
45     if($result->num_rows > 0){
46         echo "<table class='center' border = '1'>";
47         echo "<thead>";
48         echo "<tr><td>ISBN";
49         echo "</td><td>BookTitle";
50         echo "</td><td>Author";
51         echo "</td><td>Edition";
52         echo "</td><td>Year";
53         echo "</td><td>CategoryID";
54         echo "</td><td>Reserved";
55         echo "</td></tr>";
56         echo "</thead>";
57         while($row = $result->fetch_assoc()){
58             echo "<tr style='color: white;'>";
59             echo "<td>";
60             echo "<td>";
61             echo "<td>";
62             echo "<td>";
63             echo "<td>";
64             echo "<td>";
65             echo "<td>";
66             echo "<td>";
67             echo "<td>";
68             echo "<td>";
69             echo "<td>";
70             echo "<td>";
71             echo "<td>";
72             if($row["Reserved"] == 'N'){
73                 echo("<a href='reserve.php?id=".htmlentities($row["ISBN"]).">Reserve</a>");
74             }
75             else{
76                 echo("<p>Already Reserved</p>");
77             }
78         }
79         echo "</table>";
80     }
81     else{
82         echo "<p style='color:white;'>0 results</p>";
83     }
84 }
85 $conn->close();
86 }
87 ?>
88 </div>
89 </body>
90 </html>
```

```
79         echo "</table>";
80     }
81     else{
82         echo "<p style='color:white;'>0 results</p>";
83     }
84 }
85 $conn->close();
86 }
87 ?>
88 </div>
89 </body>
90 </html>
```

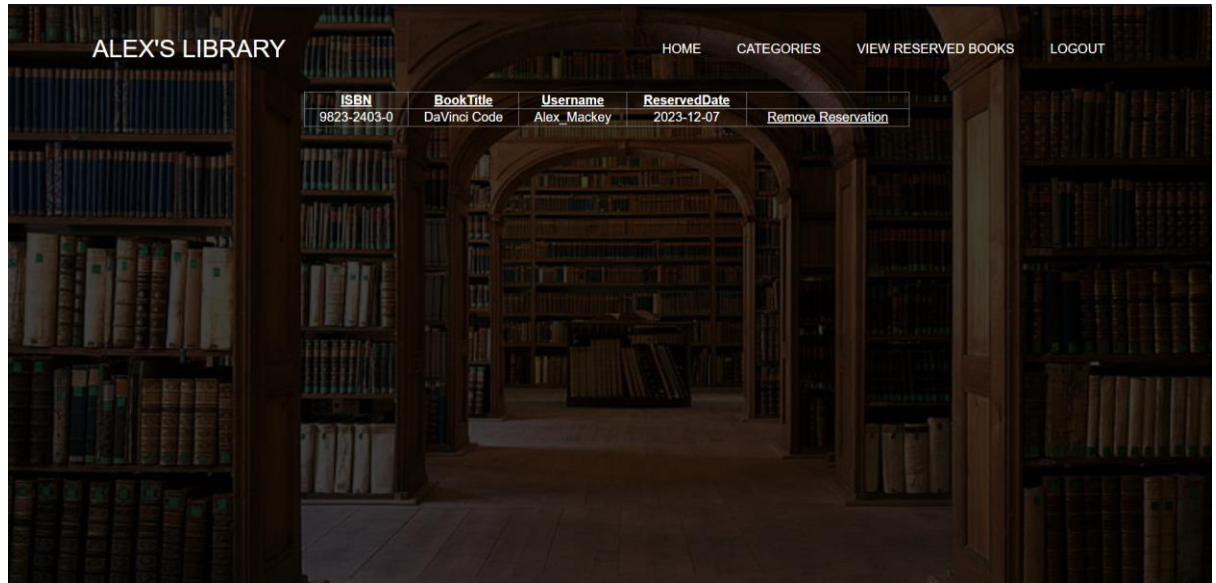

reserve.php

This page has no frontend, it is a purely backend page. When a user clicks the reserve link on a previous page the ISBN of the book is sent to the reserve page, and it is included in the page URL. Using this ID, the reserve page adds that book to the reservations table, it uses the session variable "un" to assign the reservation to the user who is currently logged in. It then updates the books table and sets the Reserved column from "N" to "Y" making all future reservations impossible until the reservation is removed by the user. The date of reservation is also captured by this page.

```
Website > reserve.php
<?php
    session_start();
    if(!isset($_SESSION['success']))
    {
        header("Location:Login.php");
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Alex's Library</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="banner">
        <div class="navbar">
            <label class="logo">Alex's Library</label>
            <ul>
                <li><a href="index.php">Home</a></li>
                <li><a href="categories.php">Categories</a></li>
                <li><a href="view.php">View Reserved Books</a></li>
                <li><a href="logout.php">Logout</a></li>
            </ul>
        </div>
        <?php
            require_once "database.php";
            if (isset($_GET['id'])) {
                $ISBN = $_GET['id'];
                $un = $_SESSION["un"];
                $date = date("Y-m-d");
                $sql = "INSERT INTO reservations (ISBN, Username, ReservedDate) VALUES ('$ISBN', '$un', '$date')";
                if ($conn->query($sql) === TRUE) {
                    echo "<script>alert('New Reservation Added'); window.setTimeout(function(){ window.location.href = 'index.php'; }, 10);</script>";
                    $sql = "UPDATE books SET Reserved = 'Y' WHERE ISBN = '$ISBN'";
                    $conn->query($sql);
                }
                else {
                    echo "Error: Reservation could not be completed";
                }
            }
        ?>
    </div>
</body>
</html>
```

view.php



This is the page where users can view their reservations. It only shows the reservation made by the user which is logged in. This is done with the Session variable "un". It displays all the contents of the reservations table and also the book title from the books table, which is achieved by using a join statement in the SQL code. There is a link in the table so that the users are able to remove their reservations from this page (remove.php).

```
LibraryWebsite > view.php
1 <?php
2     session_start();
3     if(!isset($_SESSION['success']))
4     {
5         header("Location:Login.php");
6     }
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="en">
11 <head>
12     <meta charset="UTF-8">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <title>Alex's Library</title>
15     <link rel="stylesheet" href="style.css">
16 </head>
17 <body>
18     <div class="banner">
19         <div class="navbar">
20             <label class="logo">Alex's Library</label>
21             <ul>
22                 <li><a href="index.php">Home</a></li>
23                 <li><a href="categories.php">Categories</a></li>
24                 <li><a href="view.php">View Reserved Books</a></li>
25                 <li><a href="logout.php">Logout</a></li>
26             </ul>
27         </div>
```

```

28 <?php
29 $un = $_SESSION["un"];
30 require_once "database.php";
31 $sql = "SELECT reservations.ISBN, reservations.Username, reservations.ReservedDate, books.BookTitle
32 FROM reservations
33 JOIN books ON reservations.ISBN = books.ISBN
34 WHERE reservations.Username = '$un'";
35 $result = $conn->query($sql);
36 if($result->num_rows > 0){
37     echo "<table class='center' border = '1'>";
38     echo "<thead>";
39     echo "<tr><td>". "ISBN".
40     "</td><td>". "BookTitle".
41     "</td><td>". "Username".
42     "</td><td>". "ReservedDate".
43     "</td></tr>\n";
44     echo "</thead>\n";
45     while($row = $result->fetch_assoc()){
46         echo ("<tr><td>");
47         echo($row["ISBN"]);
48         echo ("</td><td>");
49         echo($row["BookTitle"]);
50         echo ("</td><td>");
51         echo($row["Username"]);
52         echo ("</td><td>");
53         echo($row["ReservedDate"]);
54         echo ("</td><td>");
55         echo('<a href="remove.php?id='.$htmlentities($row["ISBN"]).'">Remove Reservation</a>');
56     }
57     echo "</table>";
58 }
59 else{
60     echo "0 results";
61 }
62
63 $conn->close()
64 ?>
65 </div>
66 </body>
67 </html>

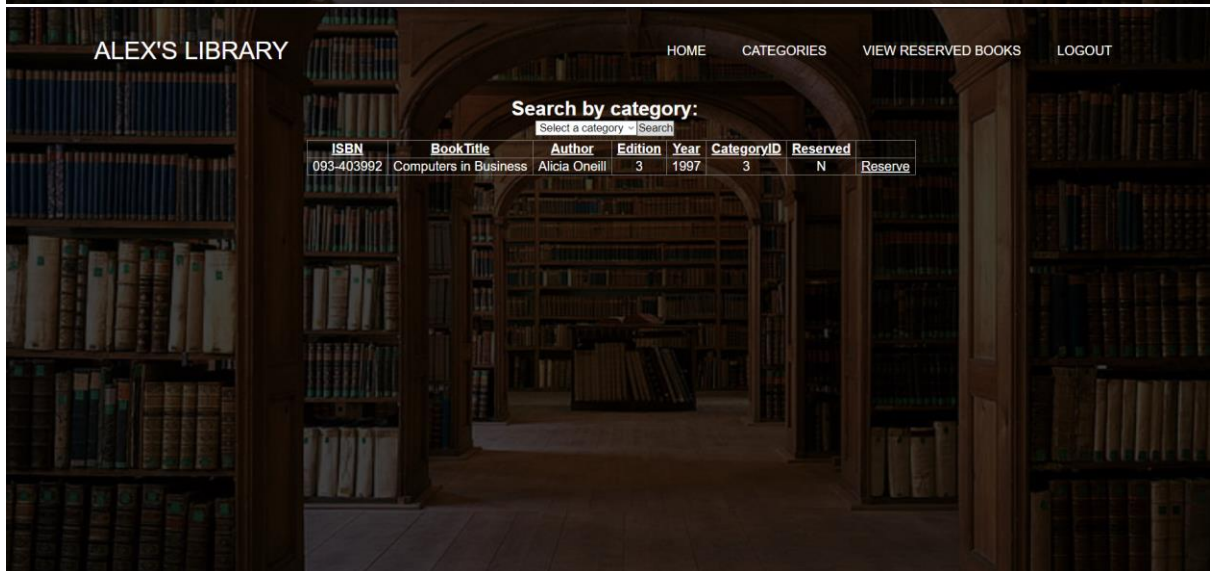
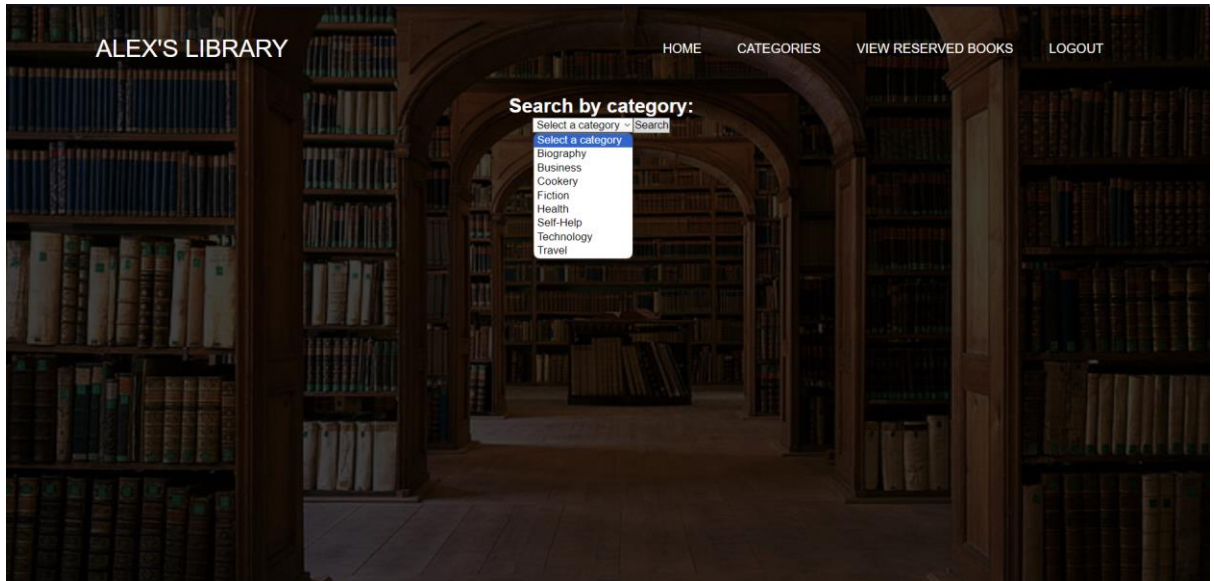
```

remove.php

Like reserve.php, this is purely a backend page. When a user clicks the remove link on a previous page the ISBN of the book is sent to the remove page, and it is included in the page URL. Using this ID, the remove page removes the reservation from the from reservations table. It also sets the reserved value in the books table from “Y” back to “N”, allowing the book to be reserved once again.

```
librarywebsite > W remove.php
1  <?php
2      session_start();
3      if(!isset($_SESSION['success']))
4      {
5          header("Location:Login.php");
6      }
7  ?>
8
9  <!DOCTYPE html>
10 <html lang="en">
11 <head>
12     <meta charset="UTF-8">
13     <meta name="viewport" content="width=device-width, initial-scale=1.0">
14     <title>Alex's Library</title>
15     <link rel="stylesheet" href="style.css">
16 </head>
17 <body>
18     <div class="banner">
19         <div class="navbar">
20             <label class="logo">Alex's Library</label>
21             <ul>
22                 <li><a href="index.php">Home</a></li>
23                 <li><a href="categories.php">Categories</a></li>
24                 <li><a href="view.php">View Reserved Books</a></li>
25                 <li><a href="logout.php">Logout</a></li>
26             </ul>
27         </div>
28         <?php
29             if (isset($_GET['id'])) {
30                 require_once "database.php";
31                 $ISBN = $conn->real_escape_string($_GET['id']);
32                 $sqlDelete = "DELETE FROM reservations WHERE ISBN = '$ISBN'";
33                 if ($conn->query($sqlDelete) === TRUE) {
34                     echo "Record deleted successfully.";
35                     $sqlUpdate = "UPDATE books SET Reserved = 'N' WHERE ISBN = '$ISBN'";
36                     if ($conn->query($sqlUpdate) !== TRUE) {
37                         echo "Error updating record: " . $conn->error;
38                     }
39                 } else {
40                     echo "Error deleting record: " . $conn->error;
41                 }
42                 $conn->close();
43                 header("Location: view.php");
44                 exit();
45             }
46         ?>
47     </div>
48 </body>
49 </html>
```

categories.php



This page allows the user to search for a book of their choice via the category. This page features a dropdown list with all the categories, it is not hardcoded, and it includes all the current categories from the categories table in the database. It is a dynamic list. When the user selects the category, they are once again able to reserve a book by clicking on the link (reserve.php). If the book is already reserved, then they will not be able to reserve it.

```
1 <?php
2 session_start();
3 if(!isset($_SESSION['success']))
4 {
5     header("Location:Login.php");
6 }
7 ?>
8
9 <!DOCTYPE html>
10 <html lang="en">
11 <head>
12 <meta charset="UTF-8">
13 <meta name="viewport" content="width=device-width, initial-scale=1.0">
14 <title>Alex's Library</title>
15 <link rel="stylesheet" href="style.css">
16 </head>
17 <body>
18 <div class="banner">
19 <div class="navbar">
20 <label class="logo">Alex's Library</label>
21 <ul>
22 <li><a href="index.php">Home</a></li>
23 <li><a href="categories.php">Categories</a></li>
24 <li><a href="view.php">View Reserved Books</a></li>
25 <li><a href="logout.php">Logout</a></li>
26 </ul>
27 </div>
```

```

28 </div>
29 <?php
30     require_once "database.php";
31     $sql = "SELECT CategoryID, CategoryDescription FROM categories ORDER BY CategoryDescription";
32     $result = $conn->query($sql);
33     if ($result->num_rows > 0) {
34         echo '<form method="post" class="category-form">';
35         echo '<label for="bookCategory"><h2>Search by category:</h2></label>';
36         echo '<select name="Category">';
37         echo '<option value="">Select a category</option>';
38         while($row = $result->fetch_assoc()) {
39             echo '<option value="' . $row['CategoryID'] . '">' . $row['CategoryDescription'] . '</option>';
40         }
41         echo '</select>';
42         echo '<input type="submit" value="Search">';
43         echo '</form>';
44         if(isset($_POST['Category']) && ($_POST['Category'] != "")) {
45             $cat = $_POST['Category'];
46             $sql = "SELECT * FROM books WHERE Category = $cat";
47             $result = $conn->query($sql);
48             if($result->num_rows > 0){
49                 echo "<table class='center' border = '1'>";
50                 echo "<thead>";
51                 echo "<tr><td>". "ISBN".
52                     "</td><td>". "BookTitle".
53                     "</td><td>". "Author".
54                     "</td><td>". "Edition".
55                     "</td><td>". "Year".
56                     "</td><td>". "CategoryID".
57                     "</td><td>". "Reserved".
58                     "</td></tr>\n";
59                 echo "</thead>\n";
60                 while($row = $result->fetch_assoc()){
61                     echo "<tr style='color: white;'><td>";
62                     echo($row["ISBN"]);
63                     echo("</td><td>");
64                     echo($row["BookTitle"]);
65                     echo("</td><td>");
66                     echo($row["Author"]);
67                     echo("</td><td>");
68                     echo($row["Edition"]);
69                     echo("</td><td>");
70                     echo($row["Year"]);
71                     echo("</td><td>");
72                     echo($row["Category"]);
73                     echo("</td><td>");
74                     echo($row["Reserved"]);
75                     echo("</td><td>");
76                     if($row["Reserved"] == 'N'){
77                         echo('<a href="reserve.php?id='.$htmlentities($row["ISBN"]).'">Reserve</a>');
78                     }
79                 }
80             }
81             if($row["Reserved"] == 'N'){
82                 echo('<a href="reserve.php?id='.$htmlentities($row["ISBN"]).'">Reserve</a>');
83             }
84             else{
85                 echo("&<p>Already Reserved</p>");
86             }
87             echo "</table>";
88         }
89         else{
90             echo '<div class="errorMessage">';
91             echo "0 results";
92             echo '</div>';
93         }
94     }
95     else {
96         echo "Error: " . $sql . "<br>" . $conn->error;
97     }
98     $conn->close()
99 }>
100 </div>
101 </body>
102 </html>

```

logout.php

Once clicked via the navbar this page destroys the session, logging the user out and it then sends them back to the login page.

```
LibraryWebsite > logout.php
1  <?php
2      session_start();
3      session_destroy();
4      header('Location: login.php');
5  ?>
```

Website design and style.css

The website consists of a very simple design, it features a navbar with links to various pages across the website. Majority of the text is white so that it contrasts well with the dark background image. The background image chosen is off a generic library. The tables heading are in bold and once again are in white for readability purposes. Below is style.css


```

LibraryWebsite > # styles.css > ...
1  /*Index, Navbar and banner */
2
3  *{
4      margin: 0;
5      padding: 0;
6      font-family: sans-serif;
7  }
8
9  .banner{
10     width: 100%;
11     height: 100vh;
12     background-image: linear-gradient(rgba(0,0,0,0.75), rgba(0,0,0,0.75)), url(background.jpg);
13     background-size: cover;
14     background-position: center;
15 }
16
17 .banner-register{
18     width: 100%;
19     height: 100%;
20     background-image: linear-gradient(rgba(0,0,0,0.75), rgba(0,0,0,0.75)), url(background.jpg);
21     background-size: cover;
22     background-position: center;
23 }
24
25 .navbar{
26     width: 85%;
27     margin: auto;
28     padding: 35px 0;
29     display: flex;
30     align-items: center;
31     justify-content: space-between;
32 }
33
34 .logo{
35     width: 300px;
36     font-size: 30px;
37     cursor: pointer;
38     text-decoration: none;
39     color: #fff;
40     text-transform: uppercase;
41 }
42
43 .navbar ul li{
44     list-style: none;
45     display: inline-block;
46     margin: 0 20px;
47     position: relative;
48 }
49
50 .navbar ul li a{
51     text-decoration: none;
52     color: #fff;
53     text-transform: uppercase;
54 }
55
56 .navbar ul li::after{
57     content: '';
58     height: 3px;
59     width: 0;
60     background: #009688;
61     position: absolute;
62     left: 0;
63     bottom: -10px;
64     transition: 0.5s;
65 }
66
67 .navbar ul li: hover::after{
68     width: 100%;
69 }
70
71 .searchbar{
72     color: #fff;
73     width: 100%;
74     text-align: center;
75     position: relative;
76     padding-top: 100px;
77     padding-bottom: 50px;
78 }

```

```

79
80 .searchbar h3{
81     text-align: left;
82     padding-left: 473px;
83 }
84
85 .textbox{
86     width: 500px;
87     height: 30px;
88 }
89
90 .searchbar button{
91     height: 30px;
92     width: 50px;
93     display: inline-block;
94     float: none;
95     margin: 0;
96     padding: 0;
97     border: 0;
98     cursor: pointer;
99 }
100
101 .center{
102     margin-left: auto;
103     margin-right: auto;
104 }
105
106 table{
107     border-collapse: collapse;
108     white-space: nowrap;
109     color: ■ white;
110     width: 50%;
111     position: relative;
112     padding-left: 100px;
113 }
114
115 thead{
116     font-weight: bold;
117     text-decoration-line: underline;
118 }
119
120 td{
121     text-align: center;
122     padding-left: 6px;
123     padding-right: 6px;
124     padding-top: 1px;
125     padding-bottom: 1px;
126 }
127
128 table a{
129     color: ■ white;
130 }
131
132 /* Login Form */
133 .login-container{
134     margin: auto;
135     width: 500px;
136     padding-top: 100px;
137     max-width: 90%;
138 }
139
140 .login-container form{
141     width: 100%;
142     height: 100%;
143     padding: 20px;
144     background: ■ white;
145     border-radius: 4px;
146     box-shadow: 0 8px 16px ■ rgba(0,0,0,0.3);
147 }
148

```

```

148
149 .login-container form h2{
150     text-align: center;
151     margin-bottom: 24px;
152     color: #222;
153 }
154
155 .login-container form .form-control{
156     width: 400px;
157     height: 40px;
158     background: white;
159     border-radius: 4px;
160     border: 1px solid silver;
161     margin: 10px 0 10px 0;
162     padding: 0px 10px ;
163     display: flex;
164     flex-direction: column;
165 }
166
167
168 .login-container form .button{
169     margin-left: 50%;
170     transform: translateX(-50%);
171     width: 120px;
172     height: 34px;
173     border: none;
174     outline: none;
175     background-color: #27a327;
176     cursor: pointer;
177     font-size: 16px;
178     text-transform: uppercase;
179     color: white;
180     border-radius: 4px;
181 }
182
183 .login-container form .button:hover{
184     opacity: .7;
185 }
186
187 /* Register Form */
188 .register-container{
189     margin: auto;
190     width: 500px;
191     padding-top: 10px;
192     max-width: 90%;
193 }
194
195 .register-container form{
196     width: 100%;
197     height: 100%;
198     padding: 20px;
199     background: white;
200     border-radius: 4px;
201     box-shadow: 0 8px 16px rgba(0,0,0,0.3);
202 }
203
204 .register-container form h2{
205     text-align: center;
206     margin-bottom: 24px;
207     color: #222;
208 }
209
210 .register-container form .form-control{
211     width: 400px;
212     height: 40px;
213     background: white;
214     border-radius: 4px;
215     border: 1px solid silver;
216     margin: 10px 0 10px 0;
217     padding: 0px 10px ;
218     display: flex;
219     flex-direction: column;
220 }
221
222

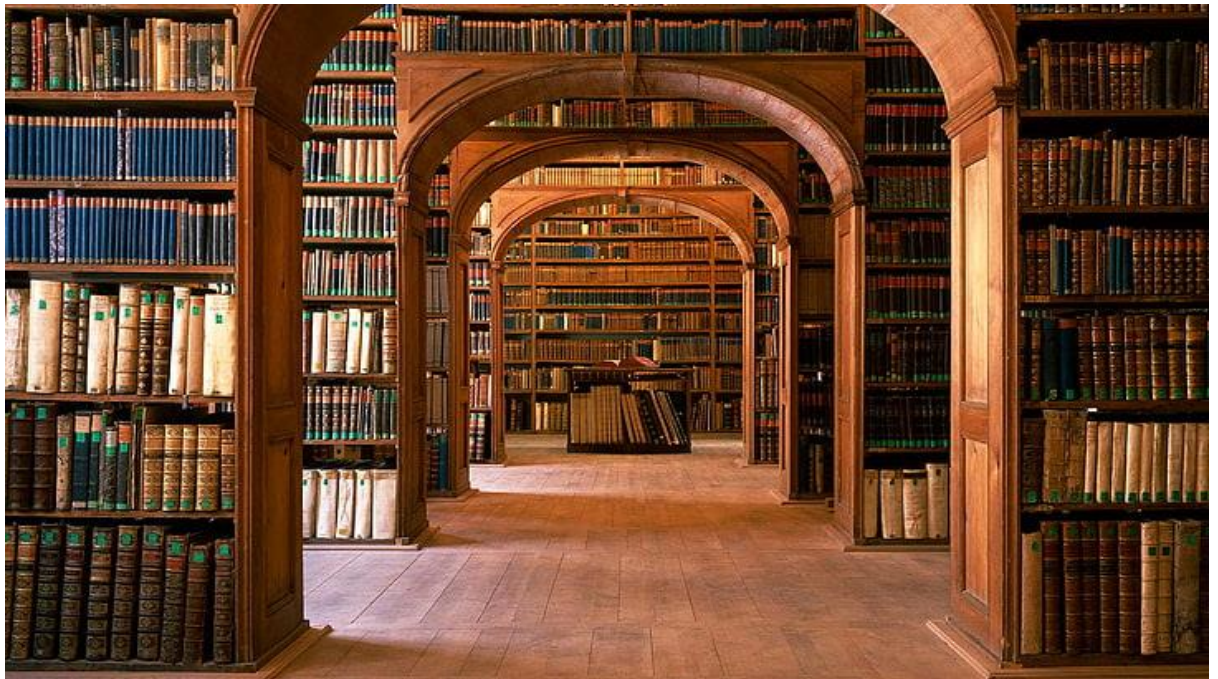
```

```

223 .register-container form .button{
224     margin-left: 50%;
225     transform: translateX(-50%);
226     width: 120px;
227     height: 34px;
228     border: none;
229     outline: none;
230     background-color: #27a327;
231     cursor: pointer;
232     font-size: 16px;
233     text-transform: uppercase;
234     color: white;
235     border-radius: 4px;
236 }
237
238 .register-container form .button:hover{
239     opacity: .7;
240 }
241
242 /*Category Page */
243
244 .category-form {
245     text-align: center;
246     color: white;
247     padding-left: 620px;
248 }
249
250 .category-form, .category-form[type="submit"] {
251     display: inline-block;
252     vertical-align: middle;
253     margin: 5px;
254 }
255
256 .errorMessage{
257     color: white;
258     text-align: center;
259 }
260

```

The background image used is below.



Additional Comments:

I was unable to add a feature that limited the number of results per page to 5 as per the requirements of the assignment.