

# WEB DEVELOPMENT PROJECT – LIBRARY ASSIGNMENT 2024

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## **DESIGN DOCUMENT**

This is my design document and how I panned my layout for the website

The image shows a wireframe of a web form layout. It is divided into two main sections. The top section is titled 'Log In' and contains two input fields labeled 'Username:' and 'Password:', followed by a 'Sign In' button. The bottom section is titled 'Register' and contains seven input fields labeled 'First Name:', 'Surname', 'Email', 'Address', 'Username', 'Phone', and 'Password', followed by a 'Sign Up' button. The form is centered on a light gray background.

**Log In**

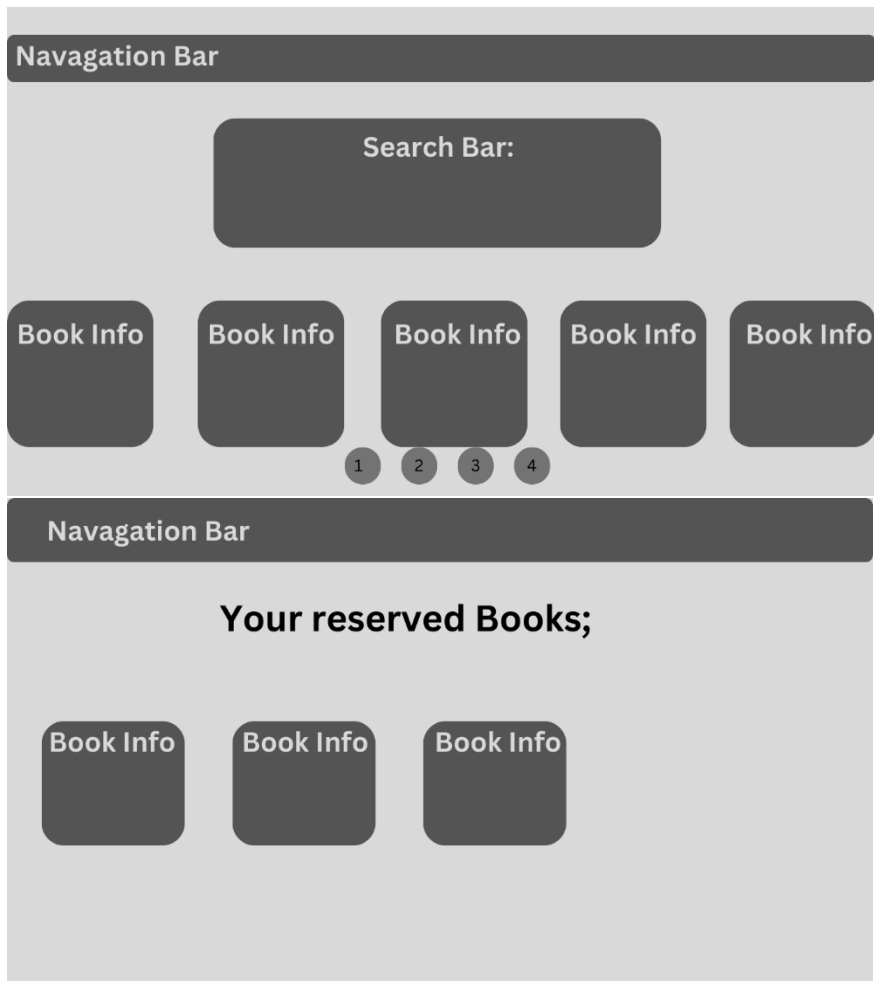
Username:  
Password:

Sign In

**Register**

First Name:  
Surname  
Email  
Address  
Username  
Phone  
Password

Sign Up



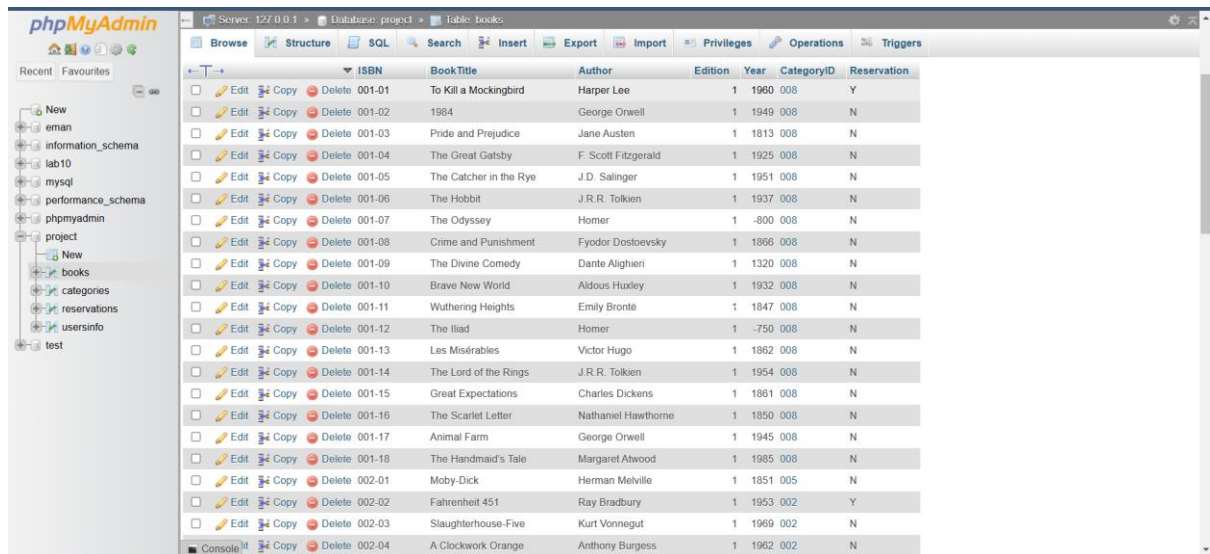
## **MYSQL CODE**

Here are the tables that I used for my website in mysql:

### **Users Table:**

UserID	firstname	surname	AddressLine1	AddressLine2	City	email	Telephone	phone	username	password
6	Alan	McKenna	38 Cranley Road	Fairview	Dublin	alan@gmail.com	9998377	856625567	alanjmckenna	11234s
8	Joseph	Crotty	Apt 5 Clyde Road	Donnybrook	Dublin	joe@gmail.com	8887889	876654456	joecrotty	kj7899
9	Tom	Behan	14 Hyde Road	Dalkey	Dublin	tommy@gmail.com	9983747	876738782	tommy100	123456

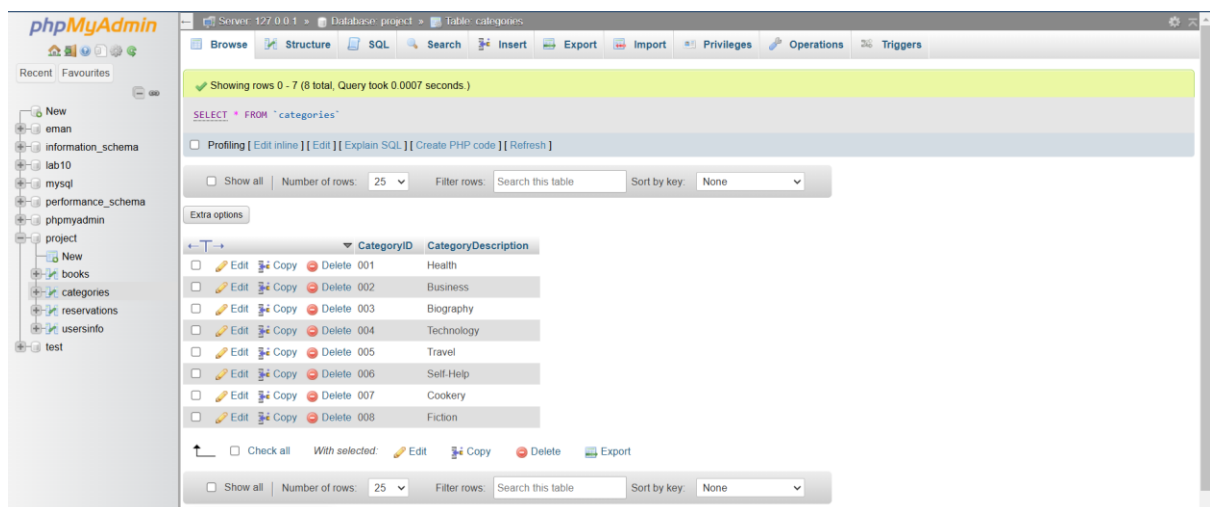
## Books Table:



The screenshot shows the phpMyAdmin interface for the 'books' table. The table has columns: ISBN, BookTitle, Author, Edition, Year, CategoryID, and Reservation. The data is as follows:

ISBN	BookTitle	Author	Edition	Year	CategoryID	Reservation
001-01	To Kill a Mockingbird	Harper Lee	1	1960	008	Y
001-02	1984	George Orwell	1	1949	008	N
001-03	Pride and Prejudice	Jane Austen	1	1813	008	N
001-04	The Great Gatsby	F. Scott Fitzgerald	1	1925	008	N
001-05	The Catcher in the Rye	J.D. Salinger	1	1951	008	N
001-06	The Hobbit	J.R.R. Tolkien	1	1937	008	N
001-07	The Odyssey	Homer	1	-800	008	N
001-08	Crime and Punishment	Fyodor Dostoevsky	1	1866	008	N
001-09	The Divine Comedy	Dante Alighieri	1	1320	008	N
001-10	Brave New World	Aldous Huxley	1	1932	008	N
001-11	Wuthering Heights	Emily Bronte	1	1847	008	N
001-12	The Iliad	Homer	1	-750	008	N
001-13	Les Misérables	Victor Hugo	1	1862	008	N
001-14	The Lord of the Rings	J.R.R. Tolkien	1	1954	008	N
001-15	Great Expectations	Charles Dickens	1	1861	008	N
001-16	The Scarlet Letter	Nathaniel Hawthorne	1	1850	008	N
001-17	Animal Farm	George Orwell	1	1945	008	N
001-18	The Handmaid's Tale	Margaret Atwood	1	1985	008	N
002-01	Moby-Dick	Herman Melville	1	1851	005	N
002-02	Fahrenheit 451	Ray Bradbury	1	1953	002	Y
002-03	Slaughterhouse-Five	Kurt Vonnegut	1	1969	002	N
002-04	A Clockwork Orange	Anthony Burgess	1	1962	002	N

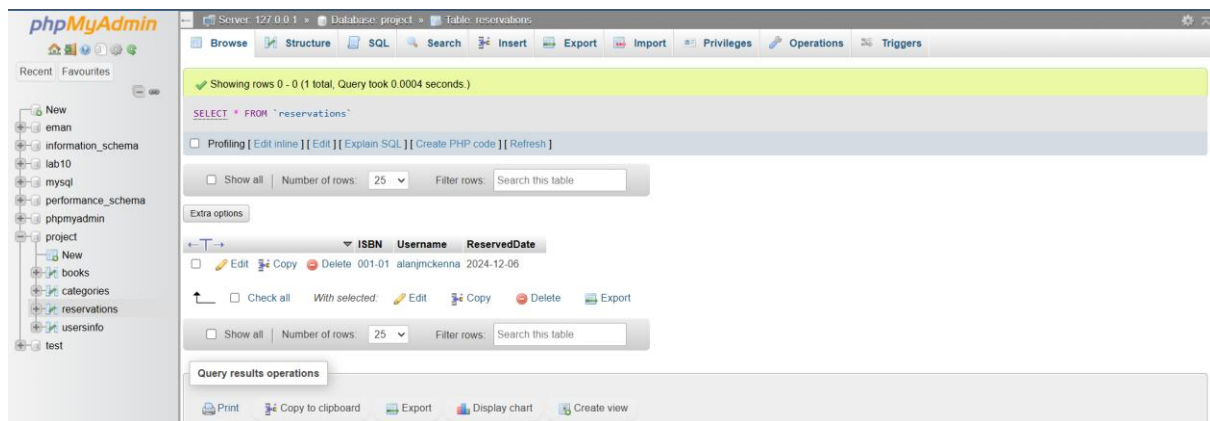
## Categories Table:



The screenshot shows the phpMyAdmin interface for the 'categories' table. The table has columns: CategoryID and CategoryDescription. The data is as follows:

CategoryID	CategoryDescription
001	Health
002	Business
003	Biography
004	Technology
005	Travel
006	Self-Help
007	Cookery
008	Fiction

## Reservations table:

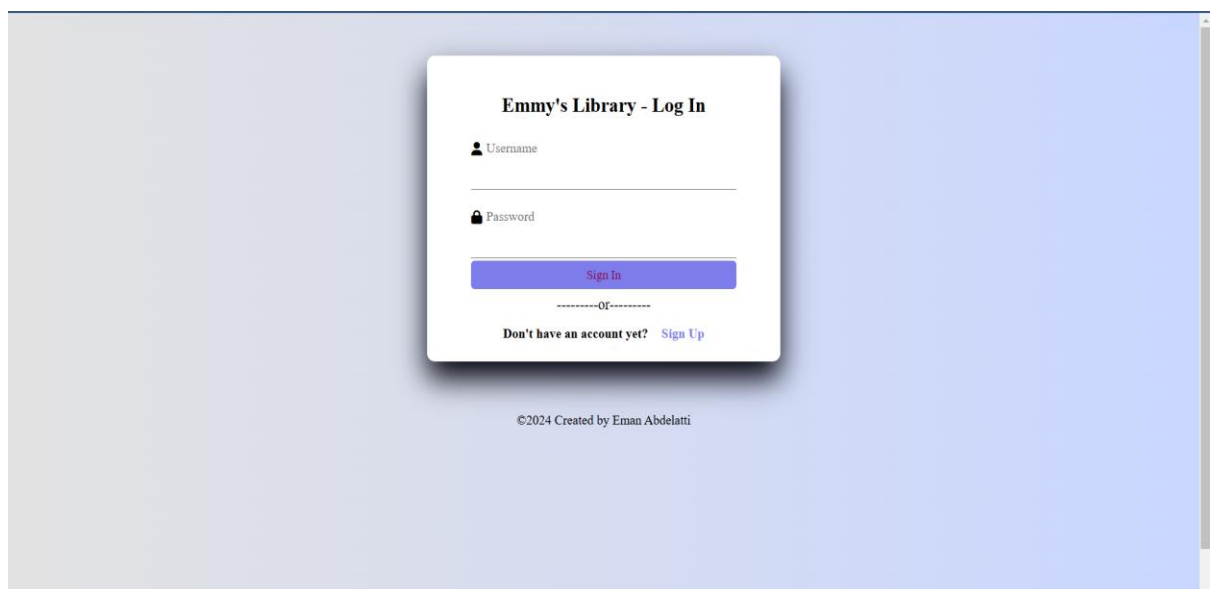


The screenshot shows the phpMyAdmin interface for a database named 'project'. The 'reservations' table is selected, and its structure is displayed. The table has three columns: ISBN, Username, and ReservedDate. The data is as follows:

ISBN	Username	ReservedDate
001-01	alanymckenna	2024-12-06

## LOGIN & SIGN UP PAGE

This is where the user is given the opportunity to login to the website or register if they haven't already.



The screenshot shows a login page for 'Emmy's Library'. The page has a light blue background. In the center, there is a white box with a shadow containing the login form. The form has the title 'Emmy's Library - Log In' and two input fields: 'Username' and 'Password'. Below the password field is a blue 'Sign In' button. Below the button is a separator line with 'OR' in the middle. Below the separator line is the text 'Don't have an account yet?' followed by a blue 'Sign Up' link. At the bottom of the page, there is a copyright notice: '©2024 Created by Eman Abdelatti'.

## Code for the Login / register page:

**1<sup>st</sup> Page – signin-register.php – this is basically the html form for the registration and login and for my php code I connected it to my logincontrol.php so it can execute that code**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Creating an Account/ Signing In</title>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome/6.5.1/css/all.min.css">
  <link rel="stylesheet" href="../CSS/styling.css">
</head>
<body>
  <!-- calling the logincontrol.php file to execute my login php code -->
  <?php require "logincontrol.php"?>
  <!-- The part where the user registers -->
  <div class="container" id="signUp" style="display:none">
    <h1 class="form-title"> Emmy's Library - Register</h1>
    <form method="post">
      <div class="input-group">
        <i class="fas fa-user"></i>
```

```

        <br><label for="firstname">First Name</label>
        <input type="text" name="firstname" id="firstname" placeholder="First Name"
required>
    </div>
    <div class="input-group">
        <i class="fas fa-user"></i>
        <br><label for="surname">Surname</label>
        <input type="text" name="surname" id="surname" placeholder="Surname"
required>
    </div>
    <div class="input-group">
        <i class="fas fa-house"></i>
        <br><label for="address1">Address Line 1</label>
        <input type="address1" name="address1" id="address1" placeholder="Address
Line 1 " required>
    </div>
    <div class="input-group">
        <i class="fas fa-house"></i>
        <br><label for="address2">Address Line 2</label>
        <input type="address2" name="address2" id="address2" placeholder="Address
Line 2 " >
    </div>
    <div class="input-group">
        <i class="fas fa-house"></i>
        <br><label for="city">City</label>
        <input type="city" name="city" id="city" placeholder="City " required>
    </div>
    <div class="input-group">
        <i class="fas fa-user"></i>
        <br><label for="username">Username</label>
        <input type="text" name="username" id="username" placeholder="Username"
required>
    </div>
    <div class="input-group">
        <i class="fas fa-envelope"></i>
        <br><label for="email">Email</label>
        <input type="email" name="email" id="email" placeholder="Email " required>
    </div>
    <div class="input-group">
        <i class="fas fa-phone"></i>
        <br><label for="telephone">TelePhone</label>
        <input type="telephone" name="telephone" id="telephone"
placeholder="Telephone" required>
    </div>
    <div class="input-group">
        <i class="fas fa-phone"></i>
        <br><label for="phone">Phone</label>
        <input type="phone" name="phone" id="phone" placeholder="Phone" required>

```

```

    </div>
    <div class="input-group">
      <i class="fas fa-lock"></i>
      <br><label for="password">Password</label>
      <input type="password" name="password" id="password"
placeholder="Password" minlength="6" required>
    </div>
    <div class="input-group">
      <i class="fas fa-lock"></i>
      <br><label for="confirmpassword"> Confirm Password</label>
      <input type="password" name="confirmpassword" id="confirmpassword"
placeholder="Confirm Password" maxlength="6" required>
    </div>
    <input type="submit" class="btn" value="Sign Up" name="signUp" >
  </form>
  <p class="or">
    -----or-----
  </p>
  <div class="links">
    <p>Already have an account?</p>
    <button id="signInButton">Log In</button>
  </div>
</div>

```

```

<div class="container" id="signIn">
  <!-- The part where the user logs in -->
  <h1 class="form-title">Emmy's Library - Log In</h1>
  <form method="post">
    <div class="input-group">
      <i class="fas fa-user"></i>
      <br><label for="username">Username</label>
      <input type="text" name="username" id="username" placeholder="Username "
required>
    </div>
    <div class="input-group">
      <br>
      <i class="fas fa-lock"></i>
      <br><label for="password">Password</label>
      <input type="password" name="password" id="password"
placeholder="Password" required>
    </div>
    <input type="submit" class="btn" value="Sign In" name="signIn" >
  </form>
  <p class="or">

```

```

        -----Or-----
    </p>
    <div class="links">
        <p>Don't have an account yet?</p>
        <button id="signUpButton">Sign Up</button>
    </div>
</div>
<footer>
    <p>©2024 Created by Eman Abdelatti</p>
</footer>

<script src="../Javascript/javascript.js"></script>

</body>
</html>

```

## **2<sup>nd</sup> Page – logincontrol.php – code to register or login the user and validate their info**

```

<?php
include 'database.php';//connecting to the database

//php code for the registration form
if(isset($_POST['signUp']))
{
    //declaring the variables and putting in the values entered by the user in them
    $firstname=$_POST['firstname'];
    $lastname = $_POST['surname'];
    $address1 = $_POST['address1'];
    $address2 = $_POST['address2'];
    $city = $_POST['city'];
    $email = $_POST['email'];
    $username = $_POST['username'];
    $telephone = $_POST['telephone'];
    $phone = $_POST['phone'];
    $pass = $_POST['password'];
    $confirmpassword = $_POST['confirmpassword'];

    //sql code to see if the user has already login in before
    $checkEmail = "SELECT * FROM usersinfo where email = '$email'";
    $result = $conn ->query($checkEmail);

    //if they already have an account
    if($result -> num_rows>0)
    {
        $_SESSION['error'] = "Email Address Already Exists!";
        echo $_SESSION['error'];
        header("Location: signin-register.php");
        exit();
    }
}

```



```

    }
    else//if they haven't make an account , here we enter their data in to register
    {
        //the confirmation password part to make sure the users password is confirmed
        if($confirmpassword === $pass)
        {
            $insertQuery = "INSERT INTO usersinfo (firstname,surname,AddressLine1,
AddressLine2, City,email,Telephone,phone, username,password) VALUES ('$firstname',
'$lastname','$address1','$address2','$city','$email','$telephone','$phone','$username','$pass')";
            if($conn->query($insertQuery)=== TRUE)
            {
                header("location: signin-register.php");
            }
            else
            {
                echo "Echo:" . $conn->error;
            }
        }
        else
        {
            $_SESSION['error'] = "Please make sure you entered the password correctly
twice!";
            echo $_SESSION['error'];
        }
    }
}

unset($_SESSION['username']);

//php code for the login form
if(isset($_POST['signIn']))
{
    //declaring the variables and putting in the values entered by the user in them
    $username = $_POST['username'];
    $pass = $_POST['password'];

    //sql code to search for the users information
    $sql = "SELECT * FROM usersinfo where username = '$username' and password =
'$pass'";
    $result = $conn ->query($sql);

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

    //if the user logs in successfully

```

```

if($result -> num_rows > 0)
{
    session_start(); //starting their session
    echo $_SESSION['username'];
    $row = $result->fetch_assoc();
    $_SESSION['username'] = $row['username'];
    header("Location: index.php");//locating them to the index page
    exit();
}
else//if they have entered in incorrect information
{
    echo "Incorrect Username or Password";
    header("Location: signin-register.php");
    exit();
}
}
?>

```

### **3<sup>rd</sup> CSS code for the login/ register page:**

```

/* code for the main body of the website*/
*{
    margin:0;
    padding:0;
    box-sizing: border-box;
    font-family: "poppins","sans-serif";
}

body
{
    background-color: #c9d6ff;
    background: linear-gradient(to right, #e2e2e2,#c9d6ff);
    width: 100%;
    height: 100vh;
    margin: 0;
    background-color: #ba8e63;
    color: #000000;
    font-family: Times New Roman;
    font-size: 16px;
}

/* login/ register css code*/
.container
{
    background: #fff;
    width: 450px;
    padding: 1.5rem;
    margin: 50px auto;
}

```

```
    border-radius: 10px;
    box-shadow: 0 20px 35px rgba(0,0,10.9);
}
```

```
form
{
    margin: 0 2rem;
}
```

```
.form-title
{
    font-size: 1.5rem;
    font-weight: bold;
    text-align:center;
    padding: 1.3rem;
    margin-bottom: 0.4rem;
}
```

```
input
{
    color: inherit;
    width: 100%;
    background-color: transparent;
    border: none;
    border-bottom: 1px solid #757575;
    padding-left:1.5rem;
    font-size: 15px;
}
```

```
.input-group
{
    padding: 1% 0;
    position: relative;
}
```

```
.input-group i
{
    position:absolute;
    color: black;
}
```

```
input:focus
{
    background-color: transparent;
    outline: transparent;
    border-bottom: 2px solid hsl(327,90%,28%);
}
```

```
input::placeholder
{
  color: transparent;
}

label
{
  color: #757575;
  position: relative;
  left: 1.2rem;
  top:-1.3rem;
  cursor:auto;
  transition: 0.3s ease all;
  margin-bottom: 8px;
}

input:focus~label,input:not(:placeholder-shown)
{
  top: -3em;
  color: hsl(327,90%,28%);
  font-size: 15px;
}

.btn
{
  font-size:1.1rem;
  padding: 8px 0;
  border-radius:5px ;
  outline:none;
  border:none;
  width: 100%;
  background: rgb(125,125,235);
  color: white;
  cursor: pointer;
  transition: 0.9s;
}

.btn:hover
{
  background:#07001f;
}

.or
{
  font-size: 1.1rem;
  margin-top: 0.5rem;
  text-align: center;
}
```

```
.icons
{
  text-align: center;
}

.icons i
{
  color: rgb(125,125,235);
  padding: 0.8rem 1.5rem;
  border-radius: 10px;
  font-size: 1.5rem;
  cursor: pointer;
  border: 2px solid #dfe9f5;
  margin: 0 15px;
  transition: 1s;
}

.icons i:hover
{
  background: #07001f;
  font-size: 1.6rem;
  border: 2px solid rgb(125,125,235);
}

.links
{
  display: flex;
  justify-content: space-around;
  padding: 0 4rem;
  margin-top: 0.9rem;
  font-weight: bold;
}

button
{
  color: rgb(125,125,235);
  border: none;
  background-color: transparent;
  font-size: 1rem;
  font-weight: bold;
}

button:hover
{
  text-decoration: underline;
  color: blue;
}
```

**4<sup>th</sup> – Javascript code for the login/ register: this is to allow a smooth transition between expanding the container for when the user wants to register or the opposite**

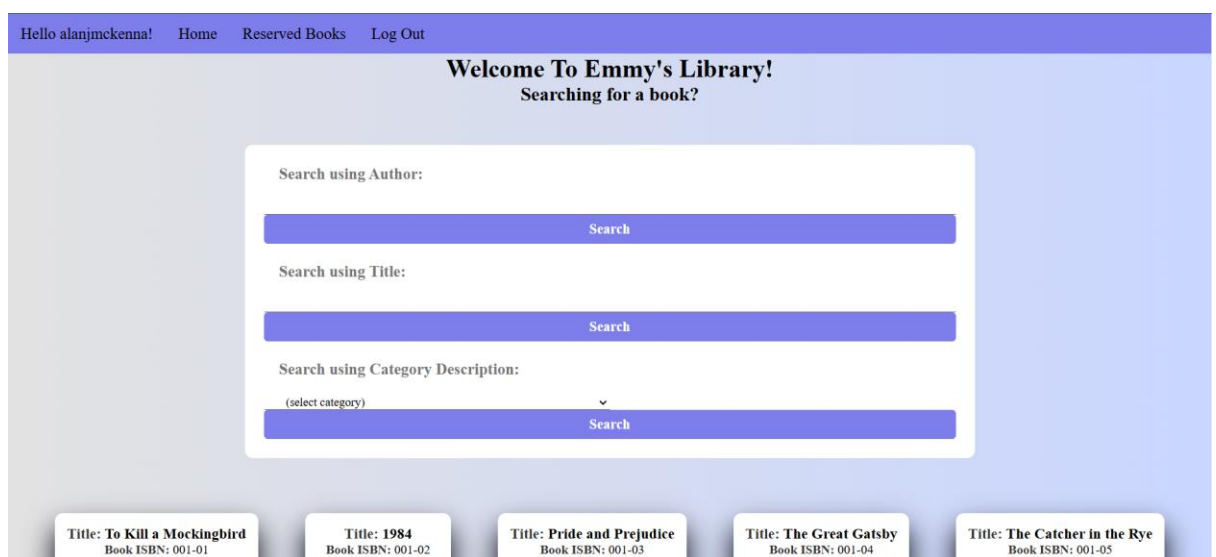
```
const signUpButton = document.getElementById('signUpButton');
const signInButton = document.getElementById('signInButton');
const signUpForm = document.getElementById('signUp');
const signInForm = document.getElementById('signIn');
```

```
signUpButton.addEventListener('click',function()
{
    signInForm.style.display="none";
    signUpForm.style.display="block";
})
```

```
signInButton.addEventListener('click',function()
{
    signInForm.style.display="block";
    signUpForm.style.display="none";
})
```

## **SEARCH PAGE/ INDEX PAGE:**

For my main page I made it so that the user sees the search bar and is able to search for their books as reserve them. Here the user can partially search for a title or author or search by category.



Hello alanjmckenna! Home Reserved Books Log Out

**Welcome To Emmy's Library!**  
Searching for a book?

Search using Author:

Search

Search using Title:

Search

Search using Category Description:

(select category) Search

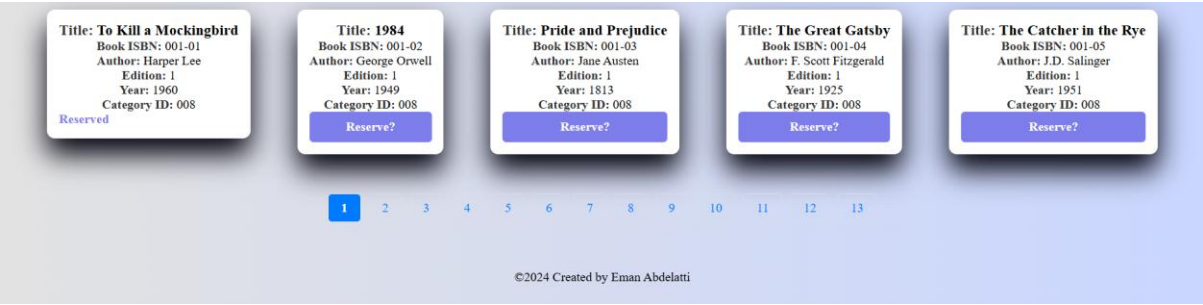
Title: **To Kill a Mockingbird**  
Book ISBN: 001-01

Title: **1984**  
Book ISBN: 001-02

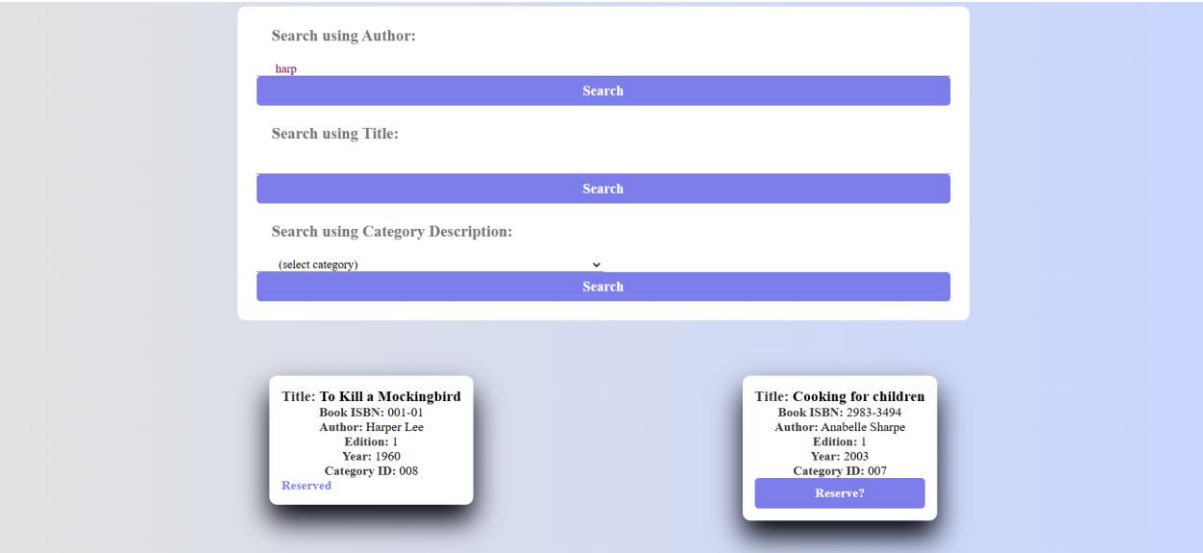
Title: **Pride and Prejudice**  
Book ISBN: 001-03

Title: **The Great Gatsby**  
Book ISBN: 001-04

Title: **The Catcher in the Rye**  
Book ISBN: 001-05



This is what it looks like when you partially search an author or title:



This is what it looks like with the category search and the pagination:

Search

Search using Title:

Search

Search using Category Description:

Travel

Search

**Title: Moby-Dick**  
Book ISBN: 002-01  
Author: Herman Melville  
Edition: 1  
Year: 1851  
Category ID: 005  
Reserve?

**Title: Don Quixote**  
Book ISBN: 005-01  
Author: Miguel de Cervantes  
Edition: 1  
Year: 1615  
Category ID: 005  
Reserve?

**Title: The Count of Monte Cristo**  
Book ISBN: 005-02  
Author: Alexandre Dumas  
Edition: 1  
Year: 1844  
Category ID: 005  
Reserve?

**Title: Life of Pi**  
Book ISBN: 005-03  
Author: Yann Martel  
Edition: 1  
Year: 2001  
Category ID: 005  
Reserve?

**Title: The Road**  
Book ISBN: 005-04  
Author: Cormac McCarthy  
Edition: 1  
Year: 2006  
Category ID: 005  
Reserve?

1 2

Search

Search using Title:

Search

Search using Category Description:

Travel

Search

**Title: The Old Man and the Sea**  
Book ISBN: 005-05  
Author: Ernest Hemingway  
Edition: 1  
Year: 1952  
Category ID: 005  
Reserve?

**Title: The Grapes of Wrath**  
Book ISBN: 005-06  
Author: John Steinbeck  
Edition: 1  
Year: 1939  
Category ID: 005  
Reserve?

**Title: Of Mice and Men**  
Book ISBN: 005-07  
Author: John Steinbeck  
Edition: 1  
Year: 1937  
Category ID: 005  
Reserve?

**Title: The Pearl**  
Book ISBN: 005-08  
Author: John Steinbeck  
Edition: 1  
Year: 1947  
Category ID: 005  
Reserve?

1 2

Here is the code for the index/ search :

1<sup>st</sup> page – index.php:



```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Searching for books</title>
    <link rel="stylesheet" href="../CSS/styling.css">
</head>
<body>
    <header>
        <?php include "header.php"?>
    </header>
    <h1>Welcome To Emmy's Library!</h1>

    <?php
    require_once 'database.php';

    //so the user has to log in in order to access the website
    if (!isset($_SESSION["username"]))
    {
        header('Location: signin-register.php');
        return;
    }

    //code for the pagination
    $rows_per_page = 5;
    $page = isset($_GET['page']) ? (int)$_GET['page'] : 0;
    $offset = $page * $rows_per_page;

    //Get search parameters from GET request to maintain search state
    $author = isset($_GET['author']) ? $_GET['author'] : "";
    $title = isset($_GET['title']) ? $_GET['title'] : "";
    $category = isset($_GET['category']) ? $_GET['category'] : "";

    //Default condition to fetch all records
    $condition = "1"; //Default to no filter, fetch all books

    //getting the search condition
    if (!empty($author))
    {
        $condition = "Author LIKE '%$author%'";
    }
    elseif (!empty($title))
    {
        $condition = "BookTitle LIKE '%$title%'";
    }
    elseif (!empty($category))
    {

```

```

        $condition = "CategoryID = '$category'";
    }

    //Query to get categories for the dropdown
    $sql = "SELECT * FROM categories";
    $categoriesresult = $conn->query($sql);

    if ($categoriesresult === false)
    {
        echo "Error: " . $conn->error;
    }
    ?>

<main>
<h2>Searching for a book? </h2>
<!-- Change the form method to GET to keep search state in the URL -->
<form method="GET" class="search">
    <!-- author search -->
    <div id="reserve" >
        <label for="author"><br><strong>Search using Author:</strong><br></label>
        <input type="text" id="author" name="author" placeholder="e.g. Harper Lee"
value="<?php echo htmlentities($author); ?>">
        <button type="submit" class="btn" name="authorsearch">Search</button>
    </div>
    <!-- title search -->
    <div id="reserve">
        <label for="title"><br><br><strong>Search using Title:</strong><br></label>
        <input type="text" id="title" name="title" placeholder="e.g. To Kill A MockingBird"
value="<?php echo htmlentities($title); ?>">
        <button type="submit" class="btn" name="titlesearch">Search</button>
    </div>
    <!-- category search -->
    <div id="reserve">
        <label for="category"><br><br><strong>Search using Category
Description:</strong><br></label>
        <select id="category" name="category" class="category">
            <option value="">(select category)</option>
            <?php
                //category dropdown
                if ($categoriesresult->num_rows > 0)
                {
                    while ($row = $categoriesresult->fetch_assoc())
                    {
                        $selected = ($category == $row['CategoryID']) ? 'selected' : '';
                        echo "<option value='" . htmlentities($row['CategoryID']) . "' $selected>" .
htmlentities($row['CategoryDescription']) . "</option>";
                    }
                }
            ?>
        </select>
    </div>
</form>

```

```

        ?>
    </select>
    <button type="submit" class="btn" name="description">Search</button>
</div>
</form>
</main>

<?php
//get the total number of records based on the current condition - Paginatio code
$count_query = "SELECT COUNT(*) AS total FROM books WHERE $condition";
$count_result = $conn->query($count_query);
$count_row = $count_result->fetch_assoc();
$total_records = $count_row['total'];

//calculate total pages
$total_pages = ceil($total_records / $rows_per_page);

//query to get the filtered data for the current page
$query = "SELECT * FROM books WHERE $condition LIMIT $offset, $rows_per_page";
$result = $conn->query($query);

//display books if there are any results
if ($result->num_rows > 0)
{
    ?>
    <div class="books-container">
    <?php
    while ($row = $result->fetch_assoc())
    {
        $ISBN = $row['ISBN'];
        $username = $_SESSION['username'];

        // Check if the user has reserved the book
        $checkReservationSQL = "SELECT * FROM Reservations WHERE ISBN = '$ISBN' AND
Username = '$username'";
        $reservationResult = $conn->query($checkReservationSQL);
        $isReserved = $row['Reservation'] === 'Y';
        ?>
        <div class="book-card">
        <div class="box">
        <h3><strong>Title:</strong> <?php echo htmlentities($row["BookTitle"]); ?></h3>
        <p><strong>Book ISBN:</strong> <?php echo htmlentities($row["ISBN"]); ?></p>
        <p><strong>Author:</strong> <?php echo htmlentities($row["Author"]); ?></p>
        <p><strong>Edition:</strong> <?php echo htmlentities($row["Edition"]); ?></p>
        <p><strong>Year:</strong> <?php echo htmlentities($row["Year"]); ?></p>
        <p><strong>Category ID:</strong> <?php echo htmlentities($row["CategoryID"]); ?></p>

        <?php

```

```

        if ($reservationResult->num_rows > 0)
        { // user has already reserved this book
            echo "<button disabled>Reserved</button>";
        }
        elseif ($isReserved)
        { //the book is reserved by someone else
            echo "<button disabled>Not Available</button>";
        }
        else
        { // user can reserve this book
            ?>
            <form method="POST" action="reserve.php" style="margin: 0;">
                <input type="hidden" name="isbn" value="<?php echo htmlentities($row['ISBN']); ?>">
                <button type="submit">Reserve?</button>
            </form>
            <?php
            }
            ?>
        </div>
    </div>

    <?php
    }
}

// Pagination code
echo "<div class='pagination'>";
for ($i = 0; $i < $total_pages; $i++)
{
    $page_num = $i + 1;
    $is_current_page = ($i === $page) ? 'style="font-weight: bold;" : "";
    echo "<a href='index.php?page=$i&author=" . urlencode($author) . "&title=" .
urlencode($title) . "&category=" . urlencode($category) . "' $is_current_page>$page_num</a>";
}
echo "</div>";
?>

<script src="../../Javascript/javascript.js"></script>
<footer>
    <p>©2024 Created by Eman Abdelatti</p>
</footer>
</body>
</html>

```

## 2<sup>nd</sup> page – reserve.php: - where the reserving code is executed

```
<?php
```

```
require_once 'database.php';  
session_start();
```

```
//to reserve the book
```

```
if ( $_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['isbn']))  
{
```

```
    //getting the book info
```

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

```
    $username = $_SESSION["username"];
```

```
    $reservedate = date("Y-m-d");
```

```
    //sql to insert info into the reservation table so the book is registered by that user
```

```
    $sql = "INSERT INTO Reservations (ISBN, Username, ReservedDate) VALUES ('$ISBN',  
'$username', '$reservedate')";
```

```
    if ($conn -> query($sql) === TRUE)
```

```
    {  
        //updating the book in the books table to be reserved
```

```
        $sql1 = "UPDATE books SET Reservation = 'Y' WHERE ISBN = '$ISBN'";
```

```
        $conn -> query($sql1);
```

```
    }
```

```
    else
```

```
    {
```

```
        echo "Error: Reservation could not be completed";
```

```
    }
```

```
    echo "<script>window.location.href='index.php';</script>";
```

```
}
```

```
?>
```

## 3<sup>rd</sup> – styling the page – CSS for the boxes and the pagination bar

```
/*code for the search bar, and the book boxes*/
```

```
.search
```

```
{
```

```
    width: 60vw;
```

```
    padding-bottom: 2em;
```

```
    background: #fff;
```

```
    padding: 1.5rem;
```

```
    margin: 50px auto;
```

```
    border-radius: 10px;
```

```
}
```

```
.searching
```

```
{
```

```
color: rgb(125,125,235);
border: none;
background-color: transparent;
font-size: 1rem;
font-weight: bold;
float:right;
margin-right: 10px;
}

.containerbooks
{
    background: #fff;
    width: 450px;
    padding: 1.5rem;
    margin: 50px auto;
    border-radius: 10px;
    box-shadow: 0 20px 35px rgba(0,0,10.9);
}
/* Pagination styling */
.pagination
{
    display: flex;
    justify-content: center;
    margin: 20px;
    width: 100%;
    padding: 10px 0;
}

.pagination a
{
    text-decoration: none;
    color: #007bff;
    padding: 8px 16px;
    margin: 0 5px;
    border: 1px solid #ddd;
    border-radius: 5px;
    font-size: 16px;
    transition: background-color 0.3s ease, color 0.3s ease;
}

.pagination a:hover
{
    background-color: #007bff;
    color: white;
}

.pagination a[style="font-weight: bold;"]
{

```

```
background-color: #007bff;
color: white;
pointer-events: none;
cursor: default;
}

.pagination a[disabled]
{
background-color: #f0f0f0;
color: #ccc;
pointer-events: none;
cursor: not-allowed;
}

/* Container for all books in the search page*/
.books-container
{
display: flex;
flex-wrap: wrap;
gap: 20px;
padding: 20px;
width: 100%;
margin: 0 auto;
justify-content: space-evenly;
}

.box
{
background: #fff;
border-radius: 10px;
box-shadow: 0 20px 35px rgba(0,0,10.9);
padding: 15px;
width: 100%;
gap: 20px;
text-align: left;
}

/* Book info section */
.box p
{
margin: 0px 0;
font-size: 1rem;
padding: 0;
}

.box strong
```

```
{
  color: #333;
}

.box form
{
  display: flex;
  justify-content: center;
  width: 100%;
}

.box form button
{
  padding: 10px 20px;
  background-color: rgb(125,125,235);
  color: white;
  border: none;
  border-radius: 5px;
  cursor: pointer;
  width: 100%;
  font-size: 1rem;
}

/* Hover effect for unreserve button */
.box form button:hover
{
  background-color: rgb(125,125,235);
}

.box .book-actions
{
  margin-top: 15px;
  text-align: center;
}

/* Style for the reserve buttons */
.box .book-actions button
{
  padding: 10px 20px;
  border: none;
  background-color: #4CAF50;
  color: white;
  border-radius: 5px;
  cursor: pointer;
}

.box .book-actions button:disabled
{

```



```
background-color: #ccc;
cursor: not-allowed;
}

.box form
{
    display: flex;
    justify-content: center;
    width: 100%;
}

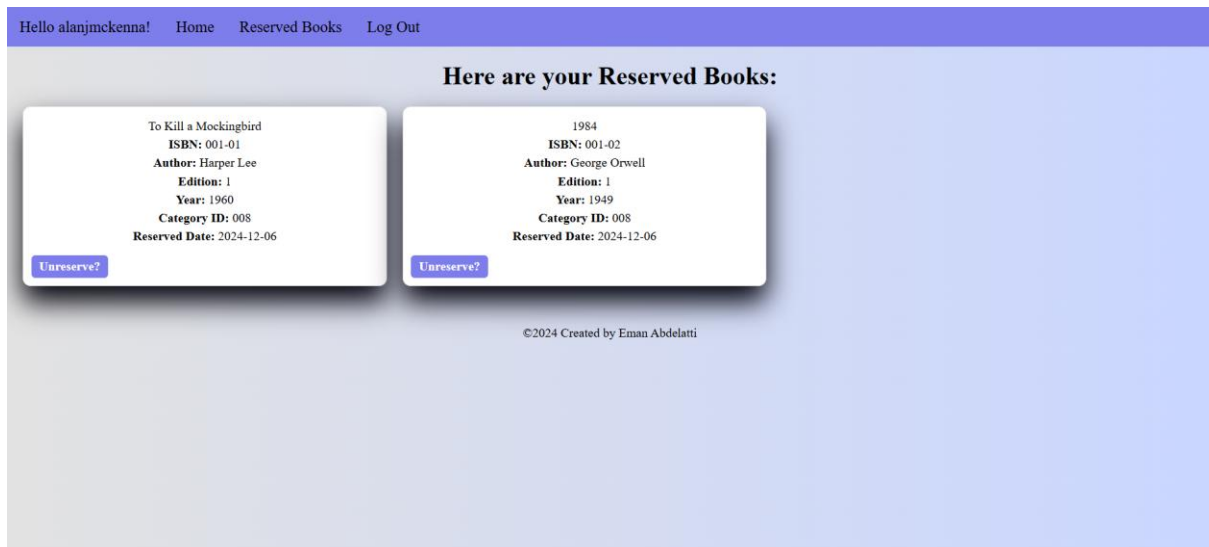
/* Reserve button styling */
.box form button
{
    display: block;
    margin: 0 auto;
}

.category
{
    color: inherit;
    float: left;
    width: 50%;
    background-color: transparent;
    border: none;
    border-bottom: 1px solid #757575;
    padding-left: 1.5rem;
    font-size: 15px;
}

.search label
{
    font-size: 20px;
}
```

### **RESERVED BOOKS PAGE:**

Here the user is able to view their reserved books and can unreserve them if they don't want to reserve it anymore. This allows the book to now be reserved again by other users.



### Code for the view.php:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Viewing your reserved books</title>
  <link rel="stylesheet" href="../CSS/styling.css">
</head>
<body>
  <header>
    <?php include "header.php"?>
  </header>
  <br>
  <h1>Here are your Reserved Books:</h1>
  <main>
    <?php
      require_once 'database.php';

      //if user hasn't logged in the page
      if (!isset($_SESSION["username"]))
      {
        header('Location: signin-register.php');
        return;
      }

      $username = $_SESSION['username'];
      //selecting the books the user has reserved
      $sql = "SELECT books.*, Reservations.ReservedDate
        FROM books LEFT JOIN Reservations ON books.ISBN = Reservations.ISBN
        WHERE Reservations.Username = '$username'";
      $result = $conn -> query($sql);
```

```

?>
<div class="books-container2" >
<?php

//showing the user the books they have reserved
if($result && $result -> num_rows > 0)
{
    while ($row = $result->fetch_assoc())
    {
        ?>
        <div class="book-box">

            <p><?php echo htmlentities($row["BookTitle"]); ?></p>
            <p><strong>ISBN:</strong> <?php echo htmlentities($row["ISBN"]); ?></p>
            <p><strong>Author:</strong> <?php echo htmlentities($row["Author"]); ?></p>
            <p><strong>Edition:</strong> <?php echo htmlentities($row["Edition"]); ?></p>
            <p><strong>Year:</strong> <?php echo htmlentities($row["Year"]); ?></p>
            <p><strong>Category ID:</strong> <?php echo htmlentities($row["CategoryID"]);
?></p>
            <p><strong>Reserved Date:</strong> <?php echo htmlentities($row["ReservedDate"]);
?></p>

            <!-- Unreserve button -->
            <form method="POST" action="view.php" style="margin: 0;">
                <input type="hidden" name="ISBN" value="<?php echo htmlentities($row['ISBN']);
?>">
                <button type="submit">Unreserve?</button>
            </form>
        </div>

        <?php
    }

}

?>
</div>

<?php
//code to delete the book from the reservation table - unreserving the book
if($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['ISBN']))
{
    $ISBN = $_POST['ISBN'];

    $sql = "DELETE FROM Reservations WHERE ISBN = '$ISBN' AND Username =
'$username'";

```

```

        if ($conn->query($sql) === FALSE)
        {
            echo "<p>Error: " . $conn->error . "</p>";
        }

        if ($conn -> query($sql) === TRUE)
        {
            $sql2 = "UPDATE books SET Reservation = 'N' WHERE ISBN = '$ISBN'";
            $conn -> query($sql2);
        }

        else
        {
            echo "Error: Reservation could not be deleted";
        }

        echo "<script>window.location.href='view.php';</script>";
    }
    ?>
</main>
<footer>
<p>©2024 Created by Eman Abdelatti</p>
</footer>
</body>
</html>

```

## 2<sup>nd</sup> – styling for the reserved books in the styling.css file

```
/* styling for the reserved books*/
```

```

.books-container2
{
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
    margin-top: 20px;
    display: flex;
    flex-wrap: wrap;
    padding: 20px;
    width: 100%;
    margin: 0 auto;
}

```

```

.books-container2
{
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
    margin-top: 20px;
}

```

```
padding: 20px;
width: 100%;
margin: 0 auto;
box-sizing: border-box;
}

.book-box
{
    flex: 0 0 31%;
    box-sizing: border-box;
    padding: 10px;
    border: 1px solid #ddd;
    border-radius: 8px;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    background-color: #f9f9f9;
    margin-bottom: 20px;
    background: #fff;
    border-radius: 10px;
    box-shadow: 0 20px 35px rgba(0,0,10.9);
    text-align: left;
}

.book-box h3
{
    margin-top: 0;
}

.book-box p
{
    margin: 5px 0;
}

.book-box button
{
    margin-top: 10px;
    padding: 5px 10px;
    background-color: rgb(125,125,235);
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

.book-box button:hover
{
    background-color: rgb(125,125,235);
}
```

**CODE FOR LOGOUT.PHP – this is my code for logging out of the page**

```
<?php
session_destroy();
header("location: signin-register.php");
?>
```

**CODE FOR DATABASE.PHP – code to connect my database at the top of each screen**

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "project";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error)
{
    die("Connection failed: " . $conn->connect_error);
}

?>
```

**CODE FOR HEADER.PHP – this code is to display my header at the top of each screen in the website rather than hard coding it in , in every page**

```
<?php session_start(); ?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Header</title>
</head>
<body>
<header>
    <nav class="navbar">
        <ul >
            <li class="username">Hello <?php if(isset($_SESSION['username']))
echo htmlspecialchars($_SESSION['username']); ?>!</li>
            <li><a href="index.php">Home</a></li>
            <li><a href="view.php">Reserved Books</a></li>
            <a href="logout.php" class="logout">Log Out</a>
        </ul>
```

```
        </nav>
    </header>
</body>
</html>
```

### CSS CODE FOR THE HEADER , FOOTER AND NAVAGATION BAR:

```
header
{
    color: white;
    text-align: center;
}

.navbar
{
    background-color: rgb(125,125,235);
    overflow: hidden;
    width: 100%;
    box-sizing: border-box;
    overflow: hidden;
    justify-content: space-around;
    align-items: center;
    padding: 0;
}

.navbar a:hover
{
    text-decoration: underline;
    transition : all 0.3s ease;
}

.navbar a
{
    text-decoration: none;
    color: black;
    font-size: 20px;
    float: left;
    display: block;
    text-align: center;
    padding: 14px 16px;
    text-decoration: none;
}

li a
{
    display: block;
    color: white;
```

```
text-align: center;
padding: 14px 16px;
text-decoration: none;
}
```

```
.navbar ul
{
  list-style-type: none;
  margin: 0;
  padding: 0;
  overflow: hidden;
  background-color: rgb(125,125,235);
}
```

```
.navbar li
{
  float: left;
}
```

```
h1,h2, h3 ,p
{
  text-align: center;
}
```

```
footer
{
  color: #000000;
  text-align: center;
  padding: 10px;
}
```

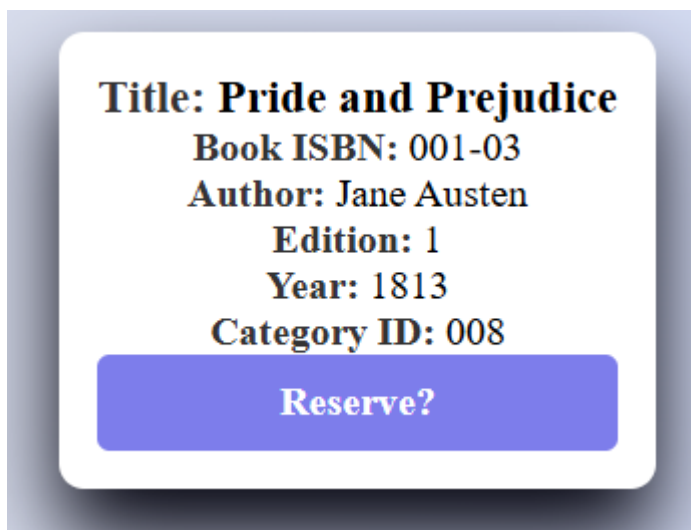
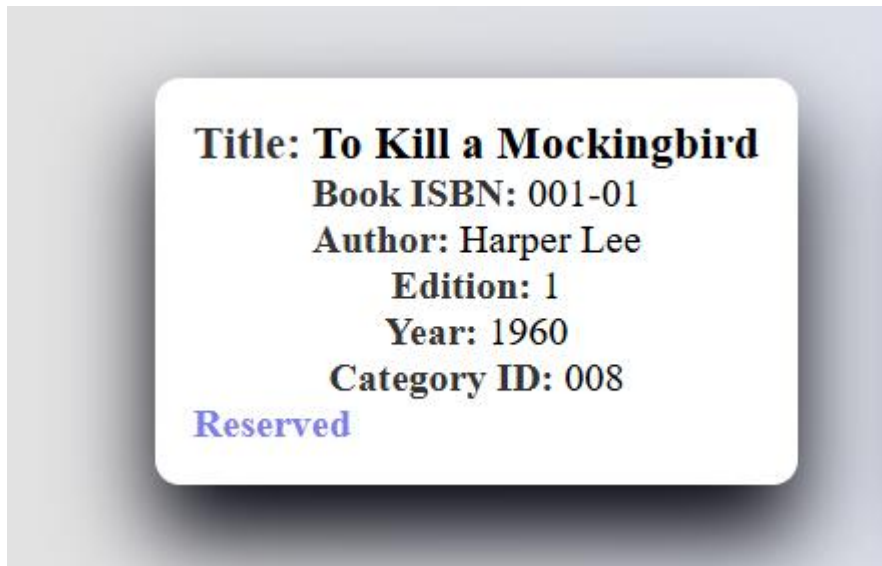
```
.username
{
  float: left;
  text-decoration: none;
  color: black;
  font-size: 20px;
  float: left;
  display: block;
  text-align: center;
  padding: 14px 16px;
  text-decoration: none;
}
```

```
.logout
{
  float: left;
  text-decoration: none;
  color: black;
```



```
font-size: 20px;  
float: left;  
display: block;  
text-align: center;  
padding: 0px 0px;  
text-decoration: none;  
}
```

**What the buttons look like reserved, available and unavailable:**



**Title: How to cook Italian food**

**Book ISBN: 9823-98345**

**Author: Jamie Oliver**

**Edition: 2**

**Year: 2007**

**Category ID: 007**

**Not Available**

## RESOURCES:

Login/register page: <https://youtu.be/rHs0b2MaNpg?si=IRkWKTux11FsQ8qM>

For the pagination:

<https://youtu.be/3-5DpAiCHy8?si=yWbws-Vw7Np4ufTL>

for inserting the books I used google and wikipedia.

## CODING:

I had taken a course over the summer for the basics of html and css and this is the link . I also used the notes and w3schools:

<https://www.freecodecamp.org/learn/2022/responsive-web-design/#learn-html-by-building-a-cat-photo-app>

[https://www.w3schools.com/sql/sql\\_alter.asp](https://www.w3schools.com/sql/sql_alter.asp)