Web Dev Assignment

Jason Gaynor Student Number: C23409212

Register.php

This is the registration page. It allows users to create a new account on the website by filling out a form with their details.

The page has many validation checks using If statements in php to meet the criteria required to create a User. If a user doesn't meet the criteria their submission will result in the corresponding error message.

For example if a user has a password of less then length 6, the \$error variable will be updated to "Password must be at least 6 letters long" (line 57) and will be displayed to the user (on line 113) in which there is an if statement that checks if the \$error variable is empty and if it isn't, it will echo the contents of \$error in red using inline styling.

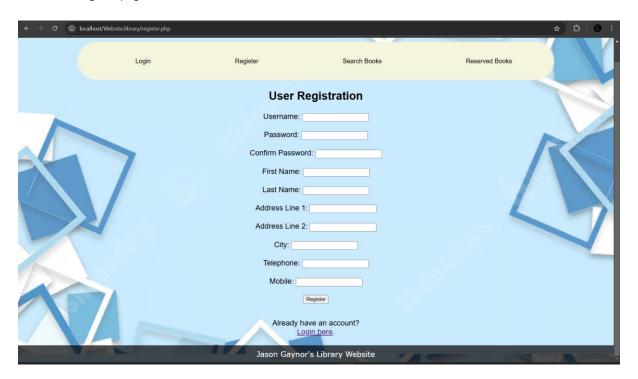
If the input from the user passes all validations, it will then query the database to check if there already exists a user with the same Username as this is a primary key and cant be duplicated. (line 69)

Once the username is unique and all details meet criteria, it will then show the message "New User registered successfully!" (seen on line 78).

It will then enter the users details into the User table in the mysql database storing their details for future sign in

Other components of the page include the common header and footer that are found across all pages along with an

option to sign in if the user already has an account. Here is the Register page as viewed in the browser



Here you can see the common header at the top and the common footer across all pages along with the form's fields for the required information

Once all info is submitted via the register button it will update the page to display "New User registered successfully" in which the user can then Login to the system with their details

Login.php

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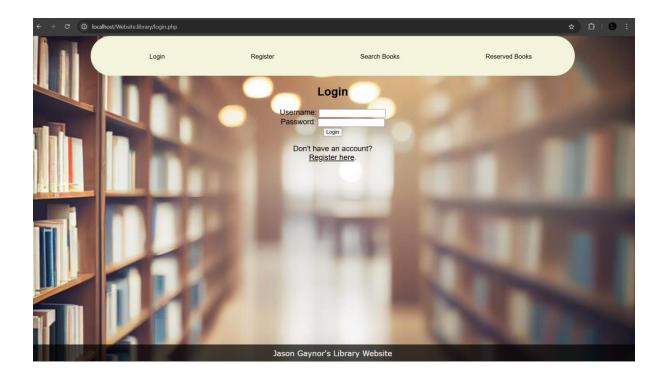
This is the page for user login.

The core of this page is the Login form, - it requires a username and password to be entered and once entered the user presses the 'Login' button. The form uses the Post method to send the username and password to the server. (this can be seen on line80)

The error message – if a user submits the form with an incorrect username and password that isn't in the users table in the database, the error variable will be set to "Invalid username or password" (seen on line 43)

The sql statement (line 28) will query the database checking if the username or password matches in the user table. If it matches, it will start a session for that user and bring them to registered.php (line 38) which will then display options to search for a book, view reserved books or sign out.

Here is the Login page as viewed in the browser



Here you can see again the common header&footer along with the login form for username and password. There is also the option to register if the user does not already have an account

Registered.php

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This is registered.php, the page the user is taken to after logging in.

It is minimalistic and only displays 3 options -> Search Books, See reserved books the user has and option to sign out.

it starts with checking if the user is logged in (line 5). If the user isn't logged in, it will send them back to login.php through the header (on line 6)

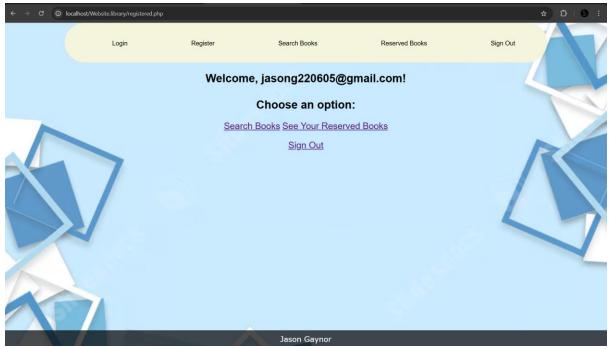
this prevents users who aren't signed in from accessing data that should only be visible by signed in users

After this we see on line 10 the code for handling the logout process. \$GET['action'] checks if the url contains a parameter named action and it ensures the value of the action parameter is logout "(&& \$_GET['action'] == 'logout') " This refers to line 60 where I added the logout option to the header. This log out option is only available on pages that require a login to access.

In the html section of the code, it welcomes the logged in user by their username (line 54) using htmlspecial charcters for security and and displays the username that's logged using \$_SESSION.

Along with this is the 3 links mentioned earlier Search Books, See reserved books, and sign out

Here is registered.php as seen in the browser



Not much to talk about here but you can see now that the sign out option has been added to the header and the Welcome (username)

Search.php

First part of search.php Is mainly the common pieces of code seen across each page ie check login, logout process, database connection etc

We see on line 31 the query to fetch the categories to display them in a dropdown menu.

This query is stored in \$categoryQuery, which is then stored in \$CategoryResult which executes the sql query. I then initialized an empty array called \$categories to store the categories.

Then in the while loop (line 34), it retrieves each row as an associative array using fetch_assoc() and adds each row to the categories array

line 43 – checks if form was submitted using POST

inside the if statement is retrieving the user entries for the title, author and category

line 50 – This is the sql query for retrieving the fields from the books and categories table.

it uses a simple join statement to display the category description as there is only the category id in the books table.

After this are conditions to allow for similar search by the user eg The user can enter "computer" and the book "computers in business" will show. This is done using the Like '%'

line 63 - intval(\$category) ensures the category input is an integer

line 70 – displays all the books that match the search criteria

Moving onto the html

we have the common header with nav links again including the logout feature now.

Below this is the search form that is the main display for the page, it holds input fields that retains the the user input and stores them in corresponding variables eg \$title, \$author

there is also added placeholders such as "Search by title" for added aesthetic

Below this we have the category dropdown (line 116) where the foreach loop generates each option from the categories array. It also ensures that the selected category remains selected after the form submission (line 120)

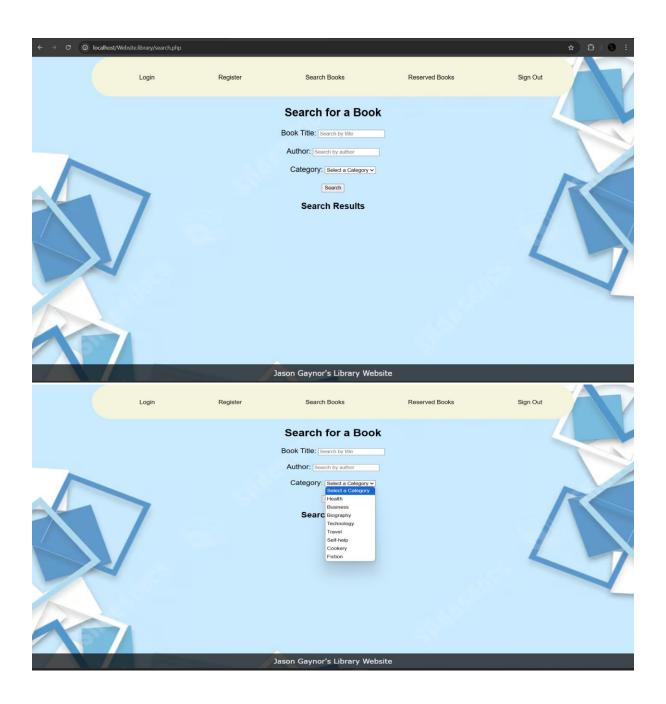
line 140 – displays each book by iterating through each book in the \$books array

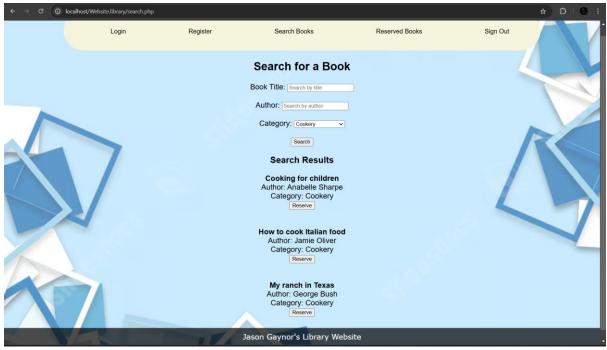
Line 147 – checks If a book is reserved ('Y' for yes). If a book is reserved, it disables the reserve button to stop a user reserving a book that is already reserved

line 152 – Sends the book ISBN to after_reserved.php using POST so it can process the reservation.

line 162 - handles the event that no books matched the search criteria after form submission

Here is search.php as it is displayed in the browser





Here you can see the dropdown menu and the corresponding results for the example category search 'Cookery' once Reserve is pressed on a book, the user is directed to after_reserved.php where the reservation is processed

After_reserved.php

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Here on after_reserved.php the book reservation is processed with minimal html

on line 31 Im retrieving the isbn from the post request that was sent from search.php with an if statement below that redirects user back to search provided there was no Isbn.

then we check if the book has been reserved (line 40) using sql query to select from reserved books where isbn is the isbn of the book that the user chose to reserved

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line 47 displays if the book has already been reserved by checking if there is already exists a reservation for that books isbn

then in the else block is for reserving the book for the user.

It stores the current users username in the session and gets the current date and time using the built in date function.

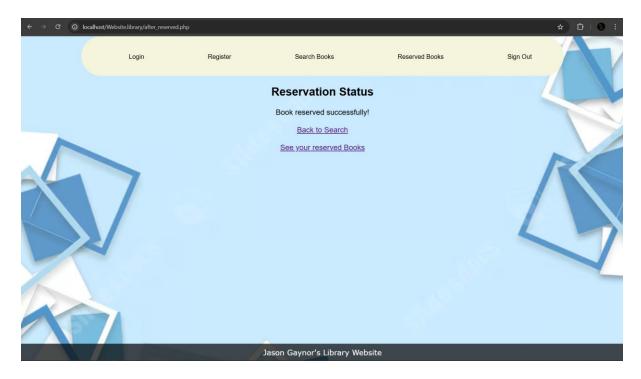
Then it prepares the sql query (line 54) for inserting the book into reserved books

on line 58, it updates the Rese collum in the books table to Y if the user reserves the book to indicate that the book is now reserved

In the html there is not much, it contains two links Back to search and see reserved books.

It also displays the corresponding message for success or failure in reserving the book

here is after_reserved.php as it is displayed in the browser



Here you can see success message and the two links

reserved.php

line 34 we retrieve the username from the session, we then store the sql query to get the users reserved books in $\$ reserved Query

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line 46 uses while loop to iterate through each row in the results then stores each book in the \$reservedbooks array then on line 51, it handles the removal of a reservation by checking if a remove request has been sent in POST. \$isbnToRemove gets the iSBN of the book to be removed from the form submission

On line 60, it checks wether the deletion was successful and if it was, it uses an sql query to update the rese collum in books table to 'N' indicating that the book is no longer reserved and displays a message indicating successful removal. If the removal was unsuccessful the else clause is processed and \$errorMessage variable is set to "failed to remove reservation"

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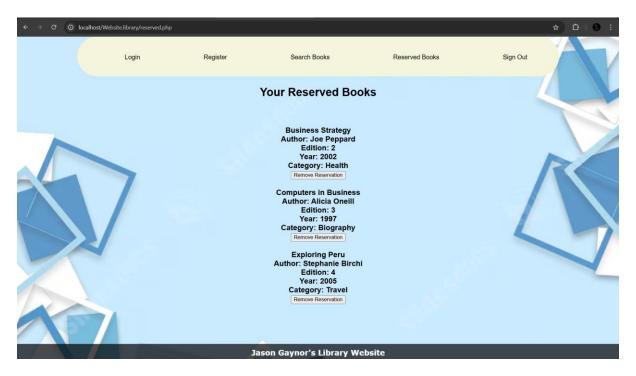
line 105 contains if statement that checks for 'success' in url and displays success message, if not successful it wil display the error message

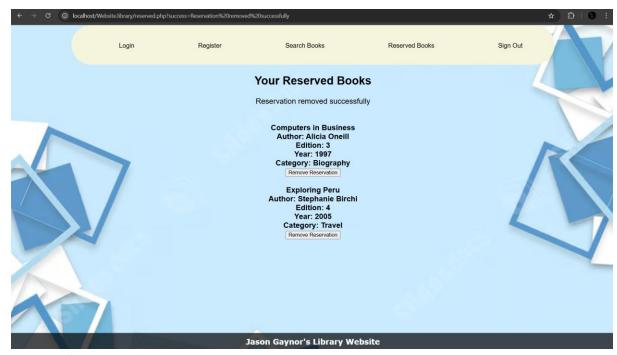
line 114 checks if the \$reservedbooks array isn't empty, if not it will display the users reserved books

```
Category: <?php echo htmlspecialchars(string: $book['Category_desc']); ?><br/>
| Category: <?php echo htmlspecialchars(string: $book['Category_desc']); ?><br/>
| Category: <?php endod="post" style="display:inline;">
| Category: <?php method="post" style="display:inline;">
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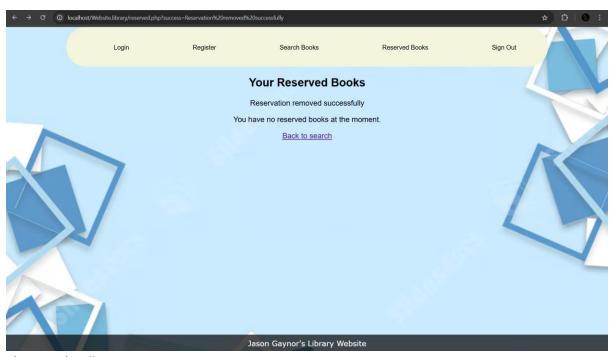
line 126 contains the simple form to remove a reservation with a button

Here is reserved.php as viewed in the browser





after removing a reservation



after removing all

Css style sheet

```
/* header styling accross all pages */
header {
    width: 80%; /* header width to 80% of page */
    background-color: Belge; /* beige background color for the header */
    padding: 20px 0; /*make header stretch longer vertically*/
    mangin: 0 auto; /* centers the header */
    text-align: center; '* center text inside the header */
    border-radius: 100px; /*rounded corners*/
}
 nav ul li{
    display: inline; /* display list items horizontally */
nav ul li a {
    text-decoration: none; /* remove underline from links */
    color: ||Diack; /* black text color for links */
    font-size: 16px; /* set font size */
    padding: 10px 15px; /* add padding to links to space them out */
 /*Body styling*/
/*common accross all*/
html, body {
height:100%;
margin: 0;
display: flex;
  html, body {
height:100%;
margin: 0;
display: flex;
flex-direction: column;
  .login.body {
    text-align: center;
    font-family: 'Autowide', sans-serif; /*from imported font */
    background-image: url(*_./Mebsite.library/css/abstract-blurred-public-library-interior-space-blurry-room-with-bookshelves-by-defocused-effect-use-for-background-or-ba
    background-size: cover; /*makes backround image not repeat itself*/
    color: Diblack;
    font-size: larger;
}
color: [Dblack;
}
} /*these following declorations are common for each pages body*/
.register body{
    text-align: center;
    font-family: Automide', sams-serif; /*imported google font*/
    font-size: larger;
    background-image: url("../website.library/Css/line-professional-frame-blue-square-shape-business-powerpoint-background_9c874dd0f4__960_540.avif");/*copyright free ima
    background-size: cover;
    padding-bottom: 50px;
}
padding-tottom.-e,-,}
}-registered body{
text-align: center;
font-family: 'Automide', sans-serif;
font-size: larger;
background-image: url("../website.library/CSS/line-professional-frame-blue-square-shape-business-powerpoint-background_9c874dd06f4_968_548.avif");
background-size: cover;
```

```
search_body{

text-align: center;
font-fasily: Autoride*, sams-serif;
background-size: cover;
padding-bottom: 50px; //prevent footer from covering page*/
}

after reserved_body{

text-align: center;
background-size: cover;

padding-bottom: 50px; //prevent footer from covering page*/

font-size: larger;
background-size: cover;

padding-bottom: 50px; //prevent footer from covering page*/

font-size: larger;
background-size: cover;

padding-bottom: 50px; //prevent footer from covering page*/

packground-size: cover;

}

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