TU856

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PHP Pages

Login Page

What this page does is that it takes in the username input and the password input if correct will let you login to the website. It also provides a way to register for the website. This page mainly interacts with the register page and search page via allowing the user a way to register then log in and when log in the page will bring you to the search page. Also the login page did in a way interact with most pages via the session variable username because it made sure that you could only access pages if logged in and it would also display what user is logged in and was used in SQL queries throughout the webpage.

Registration Page

This page is used to register a user allowing them to enter their own username their password then confirm it their first and surname , their address and there contact information. This page interacts mainly with the login page providing the user with the credentials to login to the webpage. Otherwise this page does not interact any of the other pages.

Search Page

The search page will be used to search for books using either the dropdown box to select a category and submit it or via the search box which will allow you to input and it will return the books that match. This page interacts with both the display category page and the search category page passing on the values used for the search so the SQL queries will work in those pages.

Display Category Page

Display category Page is used to display the results from the category search on the previous page it also serves to allow users to reserve books. This page interacts with both the search page and the reserve page, the search page as previously mentioned in the last paragraph

and it interacts with the reserve page passing the ISBN to the reserve page so it can use it in the SQL queries to help identify the book to be reserved.

Display Search Page

Display category Page is used to display the results from the author/book title search on the previous page it also serves to allow users to reserve books. This page interacts with both the search page and the reserve page, the search page as previously mentioned in the last paragraph and it interacts with the reserve page passing the ISBN to the reserve page so it can use it in the SQL queries to help identify the book to be reserved.

Reserve Page

The reserve pages purpose is mainly to reserve books and display the book that was reserved then send you back to the search page if you wish to reserve more books. This page interacts with the display pages to get the ISBN from the display pages to use in the SQL queries.

Show_Reserve Page

This page will display books that have been reserved or display that no books have been reserved and if the books have been reserved they will allow for them to be unreserved. This page interacts with the unreserve page via passing on the ISBN so the book can be unreserved using the SQL queries on the unreserved page.

Unreserve Page

The unreserve page will allow the user to unreserve their reserved books. This page interacts with the show reserve page by getting the ISBN for the identification there.

Logout Page

This page is used to log out from the website and will bring you back to the login page. This page interacts with the login page by bringing the user back there when they log out.

Style Page

This page contains the design elements for the website. It interacts with many of the pages to give it design.

Screen Samples

Registration Page

LoveLibrary.com

Login / Registration

Registration

User Name:	
Password:	
Confirm Password:	
First Name:	
Surname:	
Address Line 1:	
Address Line 2:	
City:	
Telephone Number:	
Mobile Number:	

Register | Clear | Cancel

Login Page

Login / Registration

Login

User Name:

Password:

Not A User Register Here!   Login   Clear

Search Page

bladesave33 Logged in

Search / Reserved Books / Logout

Category/Genre: [⌄]

[Search]

Search: [Search for BookTitle or Author]

[Search]

Search / Reserved Books / Logout

Category Results Page

bladesave33 Logged in

Search / Reserved Books / Logout

Category Results

1 2

ISBN	Book Title	Author	Edition	Year Published	CategoryCode	Reserved Status	
22867-91284	Docters Day	Paul @Graves	4	2010	1	Y	Reserve Book
23u8-923849	A guide to nutrition	John Thorpe	2	1997	1	N	Reserve Book
5234-87649	First Aid for beginners	John Moore	3	2005	1	N	Reserve Book
9823-23984	My life in picture	Kevin Graham	8	2004	1	N	Reserve Book
993-004-00	My life in bits	John Smith	1	2001	1	N	Reserve Book

BookTitle & Author Results

bladesave33 Logged in

Search / Reserved Books / Logout

BookTitle or Author Results

1 2 3

ISBN	Book Title	Author	Edition	Year Published	CategoryCode	Reserved Status	
093-403992	Computers in Business	Alicia O'Neill	3	1997	3	N	Reserve Book
22867-91284	Docters Day	Paul @Graves	4	2010	1	Y	Reserve Book
23472-8729	Exploring Peru	Stephanie Birchi	3	2005	5	N	Reserve Book
237-34823	Business Strategy	Joe Peppard	2	2002	2	N	Reserve Book
23u8-923849	A guide to nutrition	John Thorpe	2	1997	1	N	Reserve Book

Reserve

LoveLibrary.com

bladesave33 Logged in

Search / Reserved Books / Logout

A guide to nutrition Reserved - Continue....

Show Reserve

bladesave33 Logged in

Search / Reserved Books / Logout

Reserved Books

Book Title	ISBN	Date Book Reserved	
A guide to nutrition	23u8-923849	2021-12-02	Unreserve Book

Unreserve

bladesave33 Logged in

Search / Reserved Books / Logout

Book Unreserved - Continue....

Design Section

Login
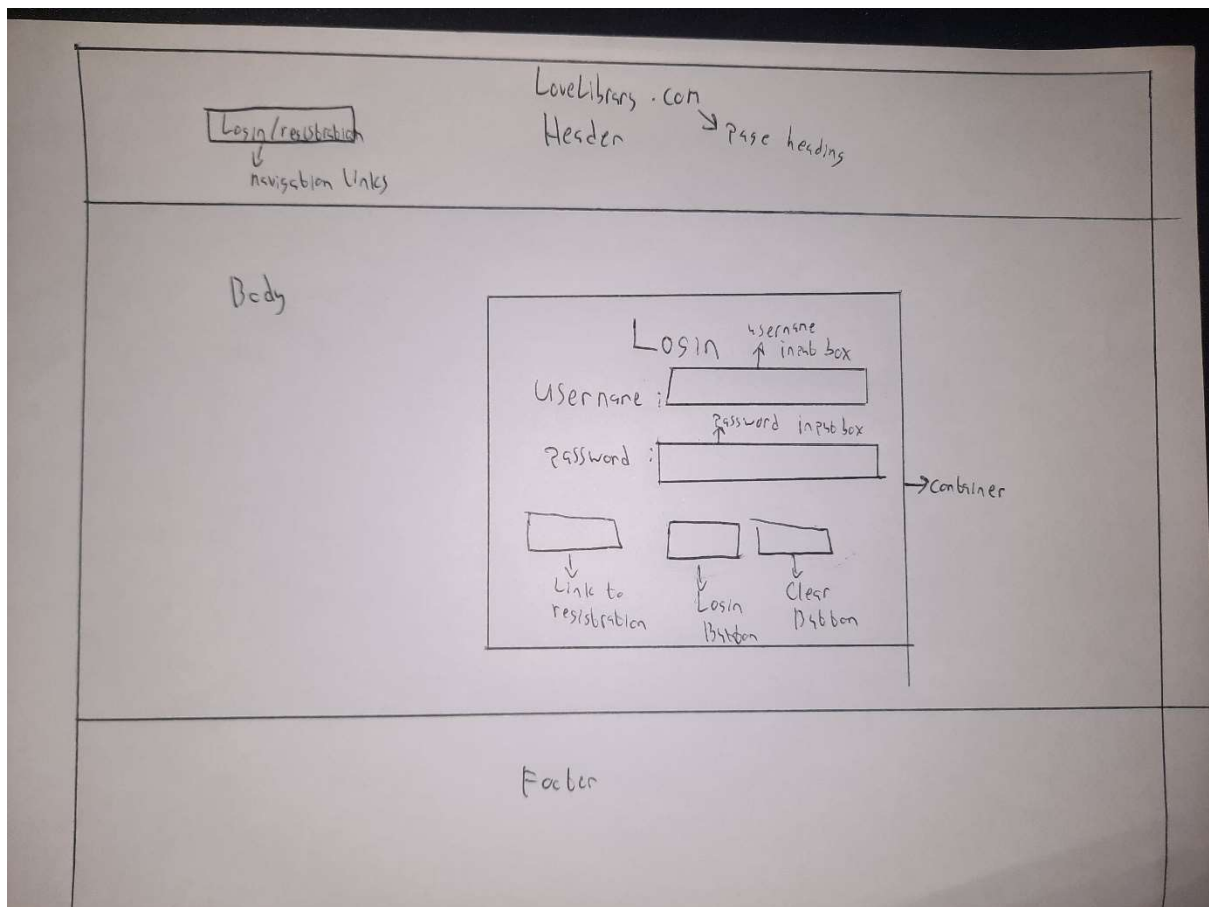
This is the design I had for my login page there would be a simple navigation bar(leads to login and registration) and page title in the header. The body would have a login form in it with a input for the username and password with a button to submit the data and log in(which would bring the user to the search page), button to clear the boxes and a link to be brought to the registration page if you don't have a login.

Registration

This is the design I had for my registration page the header contained a navigation bar which lead to the login page and registration page and the page title. The body contains the registration form which contains all the input boxes and labels for the username, password, confirm password, first name, surname, address line 1, address line 2, city, telephone number and the mobile number. It also contains the button to register the login data, a button to clear the boxes and a link if you don't want to register and cancel.

Search Page
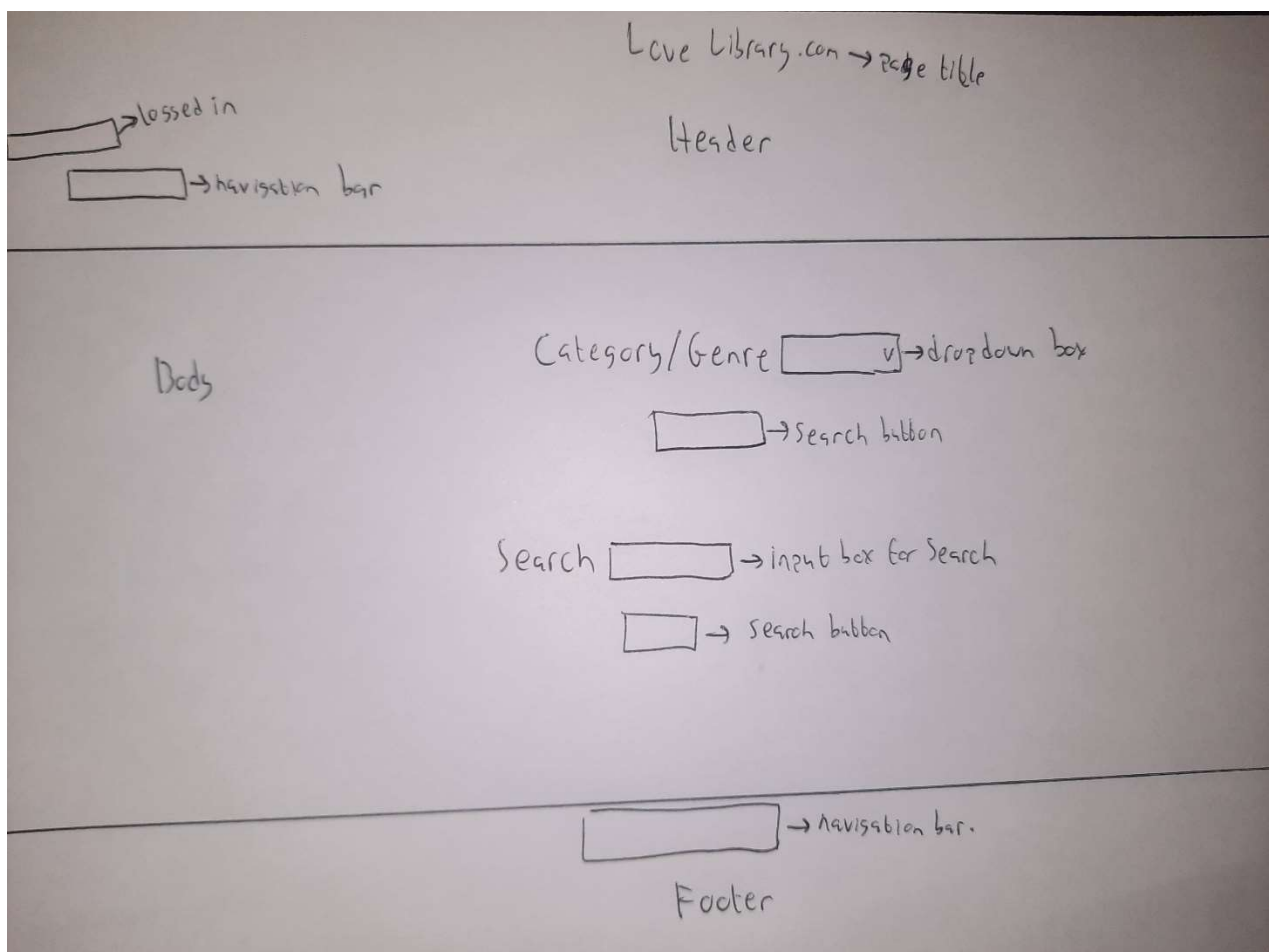
This is my design for the search page, the header contains a way too show who's logged in, a navigation (which leads to the search page, reserved books page and will log you out) and the page title. The body contains the drop down box to search for certain categories and a submit button to submit that data. There is the search button this is for searching for authors an books which is submitted by the button. Then finally in the footer is a navigation bar(which leads to the search page, reserved books page and will log you out).

Category Results
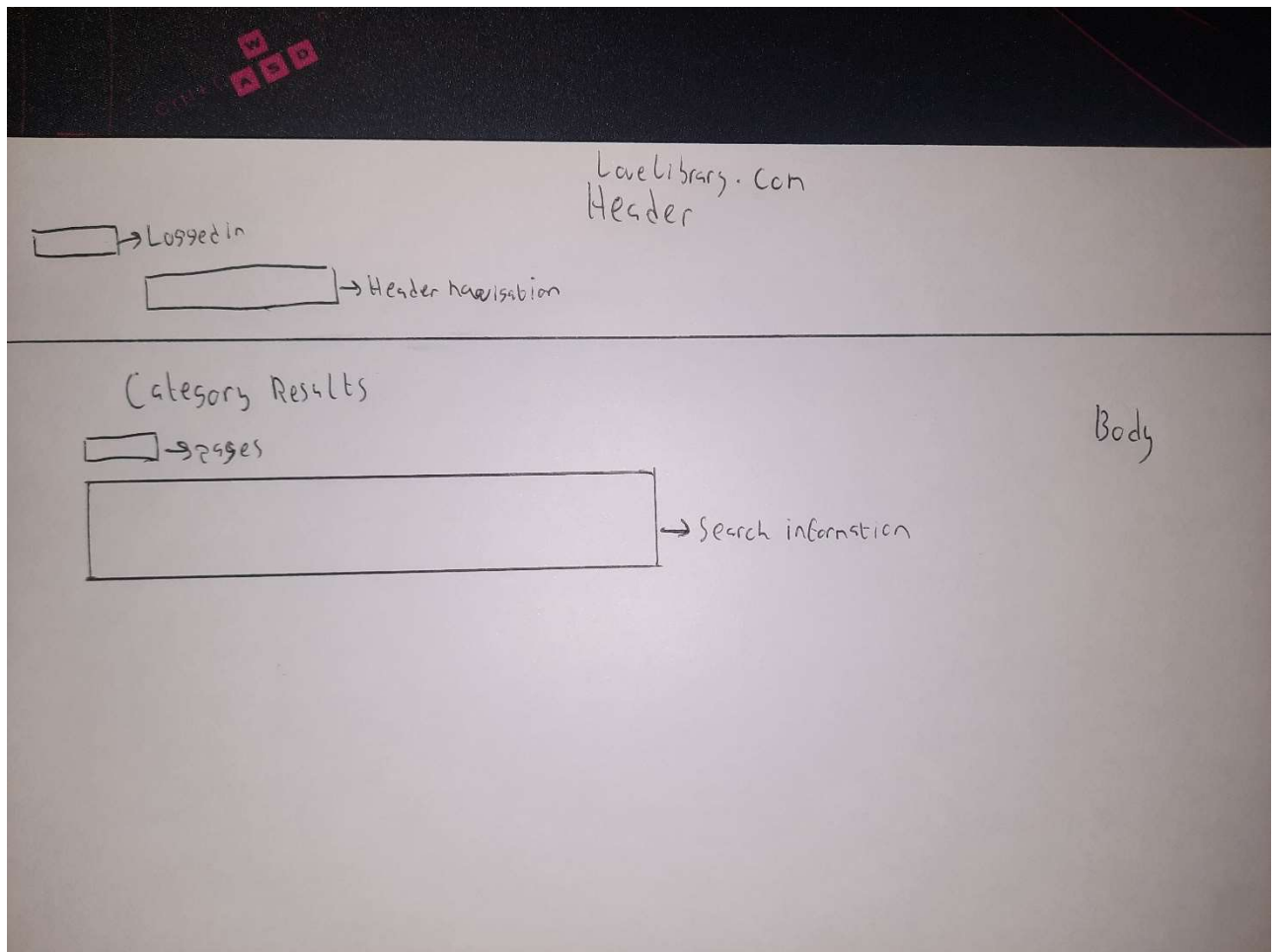
This is the design page I had for my category results page which shows the results from the category search. In the header it contains a way too show who's logged in, a navigation (which leads to the search page, reserved books page and will log you out) and the page title. The body contains a way to navigate through the pages of results from the search and also contains a cell format that contains the result data and a way to reserve a book via the ISBN.

BookTitle and Author Results

This is the design page I had for my BookTitle and Author results page which shows the results from the BookTitle and Author search. In the header it contains a way too show who's logged in, a navigation (which leads to the search page, reserved books page and will log you out) and the page title. The body contains a way to navigate through the pages of results from the search and also contains a cell format that contains the result data and a way to reserve a book via the ISBN.
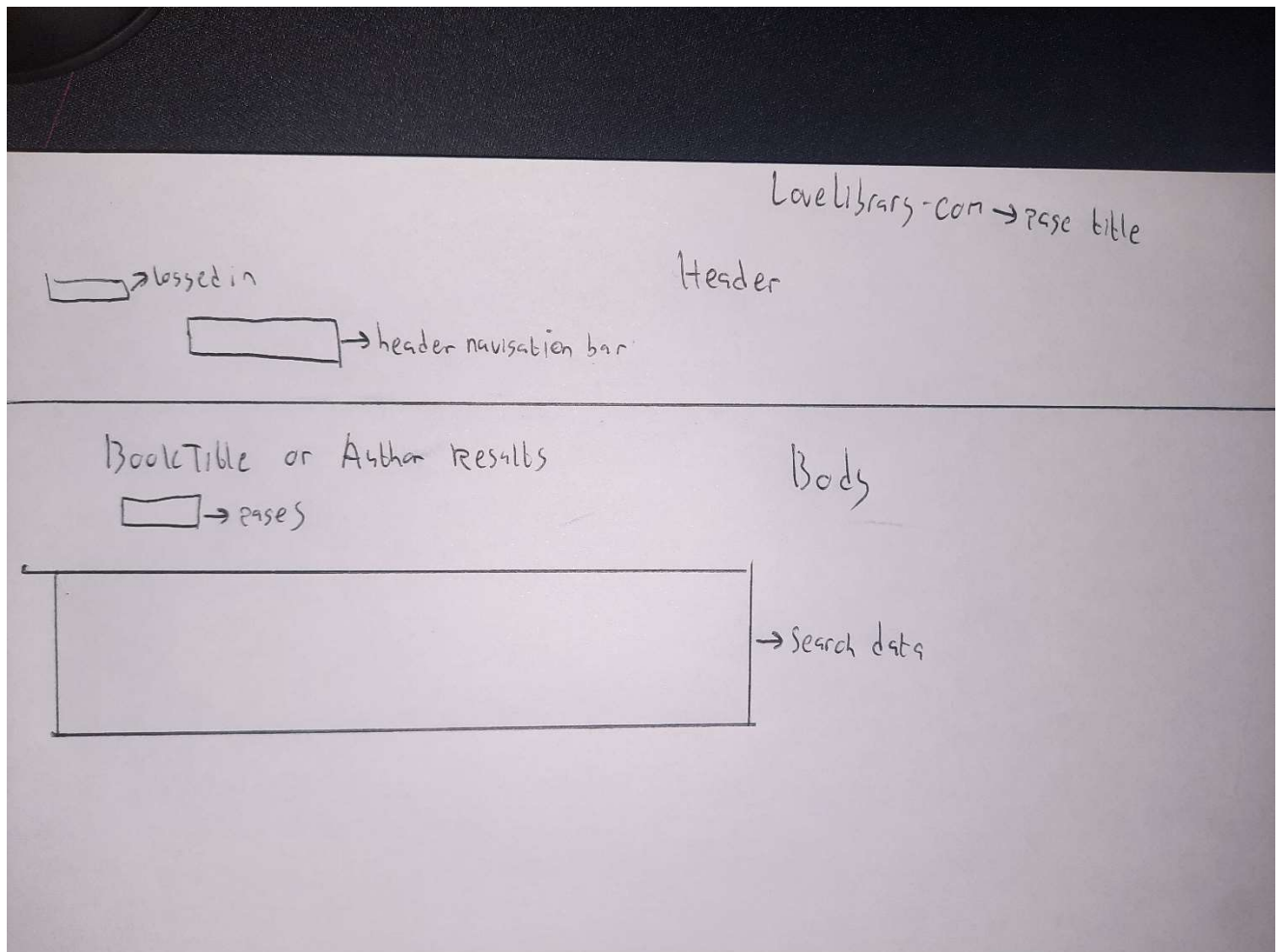
Reserve
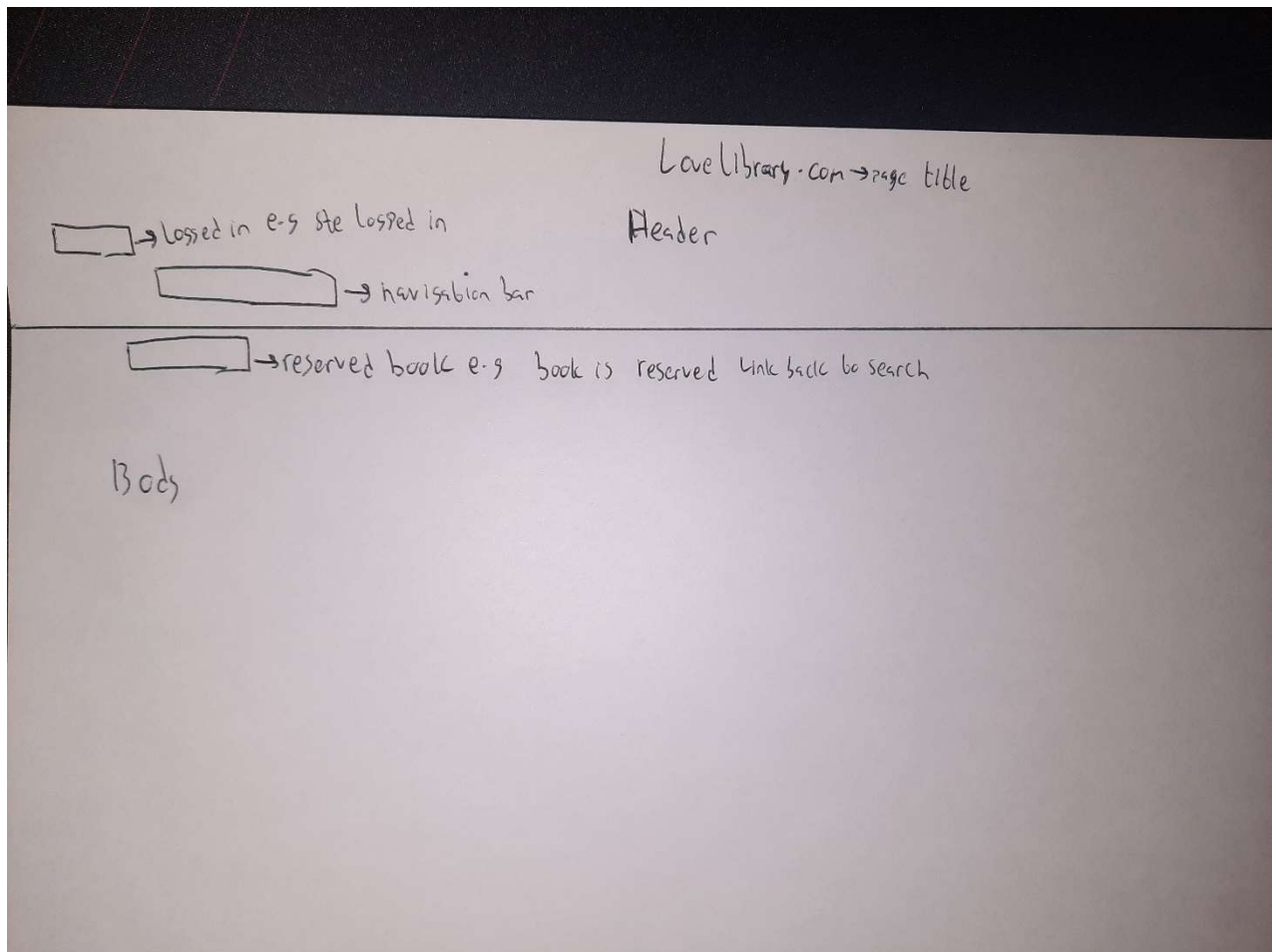
This is my design for my reserve page. In the header it contains a way too show who's logged in, a navigation (which leads to the search page, reserved books page and will log you out) and the page title. The body just contains a way too show which book has been reserved and a link to bring the user back to the search page.

Show Reserve
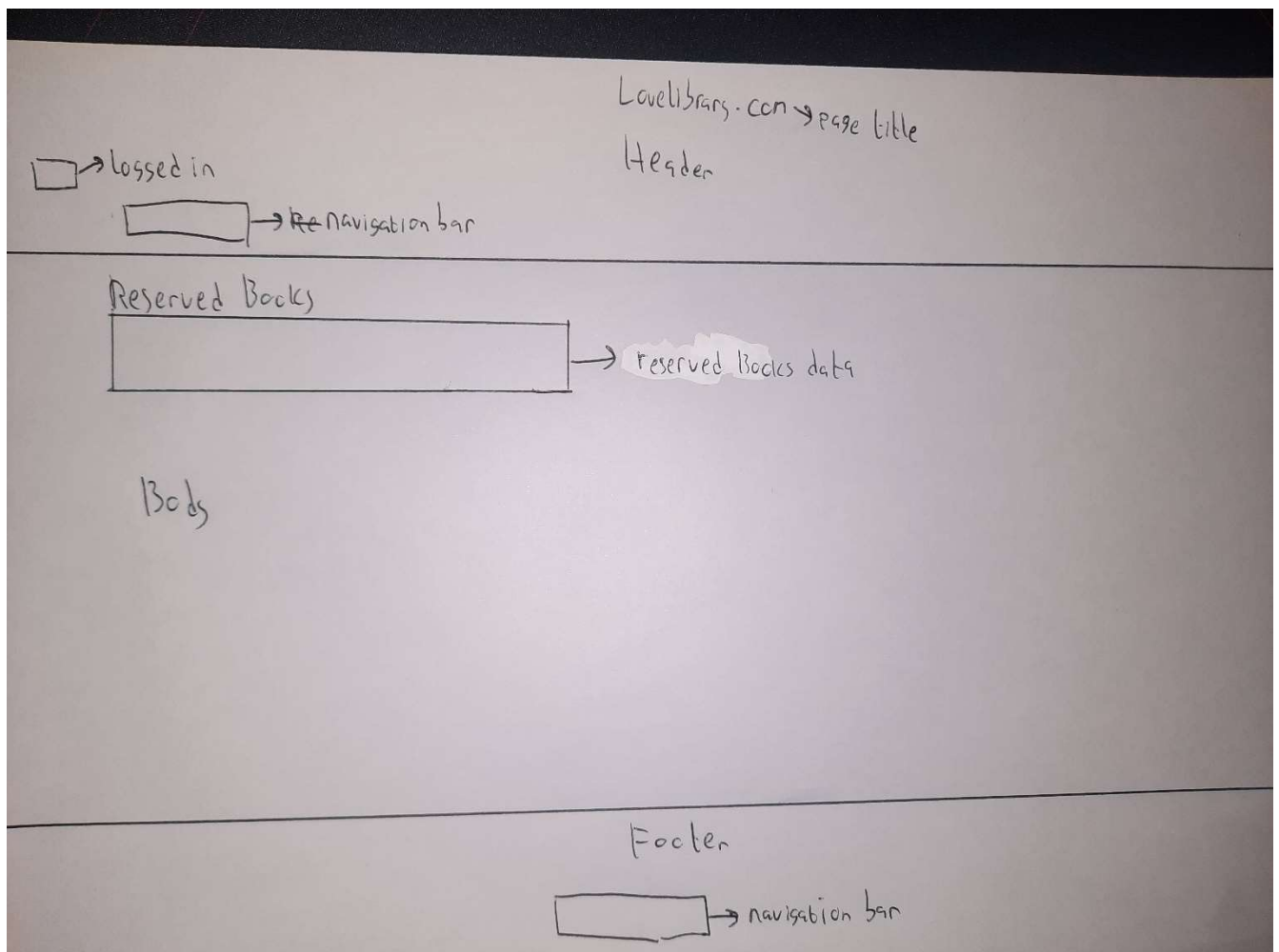
This is my design for the show reserve page, the header contains a way too show who's logged in, a navigation (which leads to the search page, reserved books page and will log you out) and the page title. The body contains a header that says reserved books and then cells to show which books are reserved and at the end of the cells has a unreserve link to unreserve the book using the ISBN .Then finally in the footer is a navigation bar(which leads to the search page, reserved books page and will log you out).

Unreserved

Lovelibrary·con → Page title

Header

→ logged in

→ navigation bar

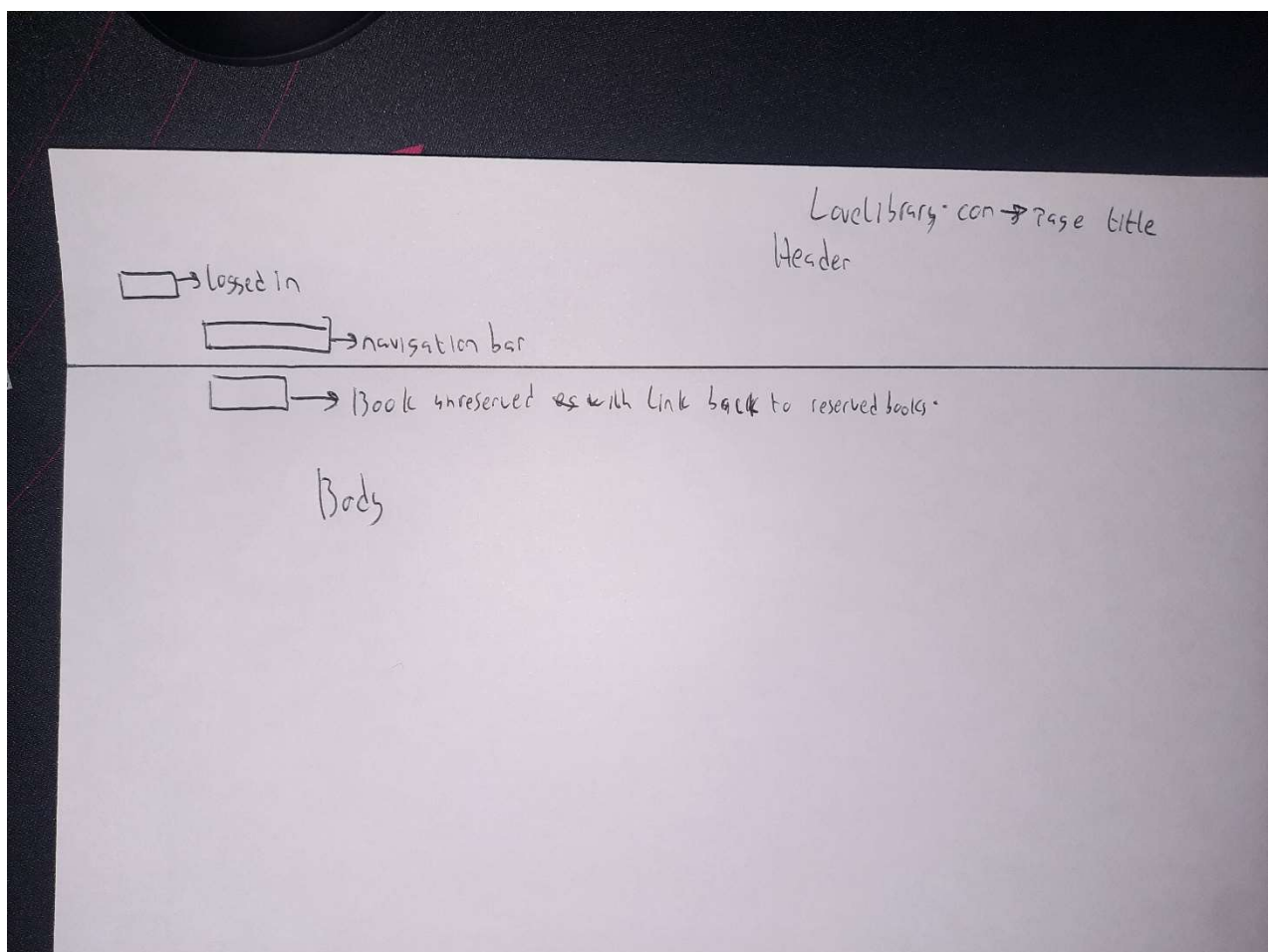Book unreserved es with link back to reserved books.

Body

This is my design for my unreserve page. In the header it contains a way too show who's logged in, a navigation (which leads to the search page, reserved books page and will log you out) and the page title. The body just contains a way to show that the book you've unreserved has been unreserved then gives you a link to bring you to the show reserved book page.

ERD For BookDB
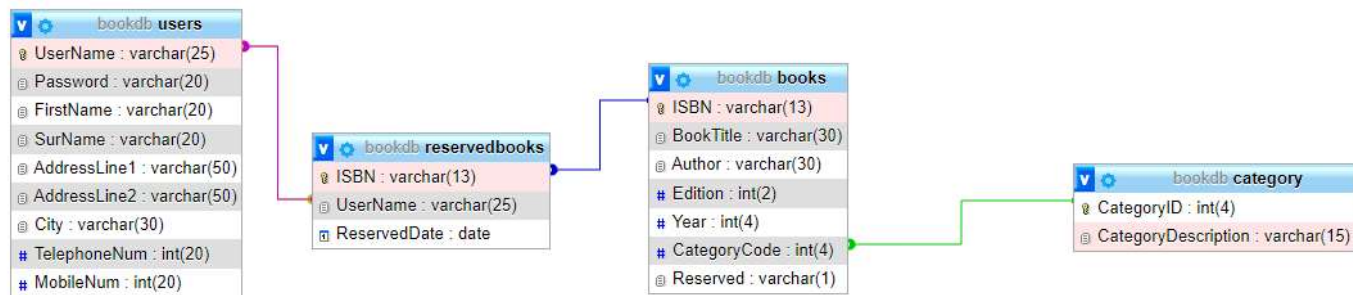
Code for Pages

Login Page

```
<html>

<header>

<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file  -->

<h1>LoveLibrary.com</h1><!-- What the web page is called -->

<ul>

<h3><a href="Login.php">Login / </a> <a href="Registration.php">
Registration</a></h3><!-- Header Navigation bar -->

</ul>

</header>

<body>

<?php

//connection credentials
```

```php
$servername= "localhost";

$username = "root";

$password = "";

$dbname= "bookdb";

// Create connection

$conn = mysqli_connect($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect_error)

{

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

}

if(isset($_POST['UName']) && isset($_POST['Password'])){//checks if there is input in
password and username section

$UN = $conn -> real_escape_string($_POST['UName']);//sets $un to the input in the
username input box from the form

$Pass = $conn -> real_escape_string ($_POST['Password']);//sets $pass to the input in the
password input bow from the form

$sql1 ="SELECT UserName FROM users WHERE UserName ='$UN' AND Password =
'$Pass'";//sql query to get the username and password where $un and $pass matches

$result1 = mysqli_query($conn,$sql1);//runs the sql query

$count = mysqli_num_rows($result1);//counts the nuumber of rows form the queru

if ($count == 1 ){//checks if there is one row

header("Location:Search.php");//sends the user to the search page

}

else{

echo"<h2>Invalid Username Or Password</h2>";// if anything is wrong print this

}

$_SESSION["username"] = "$UN";//set session variable username

}


$conn->close();//closes database conection
```

```
?>
```

<!-- form to display the login section-->

```
<form method="POST">
<div class="login-container">
<H1>Login</H1>
<h3>User Name:
<input type="text" id="UName" name="UName"></input>
</h3>
<h3>Password:
<input type="password" id="Password" name="Password" ></input>
</h3>
<input type ="reset" value="Clear"/> <input type="submit"  value="Login"/>
<a href="Registration.php">Not A User Register Here!</a>
</div>


</form>
</body>
<footer>
</footer>
</html>
```

Registration Page

```
<?php
session_start();//session start to use an session variables
?>
<html>
<header>
<link rel="stylesheet"  href="style.css"/> <!-- connecting the style sheet file to the html file --
>
```

```
<h1>LoveLibrary.com</h1><!-- What the web page is called -->

<ul>

        <h3><a href="Login.php">Login / </a> <a href="Registration.php">
Registration</a></h3><!-- Header Navigation bar -->

</ul>

</header>

<body>

<?php

//connection credentials

$servername= "localhost";

$username = "root";

$password = "";

$dbname= "bookdb";

//create connection

$conn = mysqli_connect($servername, $username, $password, $dbname);

//check connection

if ($conn->connect_error)

{

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

}

//if statement  to see if all inputs have been set

if (isset($_POST['UName']) && isset($_POST['Password']) && isset($_POST['FirstName'])

&& isset($_POST['Surname']) && isset($_POST['AddressLine1']) &&
isset($_POST['AddressLine2'])

&& isset($_POST['City']) && isset($_POST['TelephoneNum']) &&
isset($_POST['MobileNum']) ){

        //setting the variables to the inputs form the boxes

        $UN = $conn -> real_escape_string($_POST['UName']);

        $Pass = $conn -> real_escape_string ($_POST['Password']);

        $ConPass = $conn -> real_escape_string ($_POST['ConfirmPassword']);
```

```php
$FN = $conn -> real_escape_string ($_POST['FirstName']);

$SN = $conn -> real_escape_string ($_POST['Surname']);

$ADL1 = $conn -> real_escape_string ($_POST['AddressLine1']);

$ADL2 = $conn -> real_escape_string ($_POST['AddressLine2']);

$CTY = $conn -> real_escape_string ($_POST['City']);

$TN = $conn -> real_escape_string ($_POST['TelephoneNum']);

$MN = $conn -> real_escape_string ($_POST['MobileNum']);

$sql2 ="SELECT * FROM Users WHERE UserName ='$UN'";//sql query to find all data
form rows with the username

$res = mysqli_query($conn,$sql2);//runs sql query

//checks to see if any inputs are empty

if (empty($_POST['UName']) || empty($_POST['Password']) ||
empty($_POST['FirstName']) ||

empty($_POST['Surname']) || empty($_POST['AddressLine1']) ||
empty($_POST['AddressLine2']) ||

empty($_POST['City']) || empty($_POST['TelephoneNum']) ||
empty($_POST['MobileNum']) ){

echo"<h2>Please Fill In All Sections</h2>";//prints out if one is empty

}

elseif(!ctype_alpha($FN)){//checks to see if firstname has anything other than letters
in it

        echo("<h2>Please only enter letters in the First Name Section</h2>");//prints
out if there is anything other than letters

}

elseif(!ctype_alpha($SN)){//checks to see if surname has anything other than letters
in it

        echo("<h2>Please only enter letters in the Surname Section</h2>");//prints
out if there is anything other than letters

}

elseif(mysqli_num_rows($res) > 0){//checks to see if the entered username is in the
database already

        echo("<h2>User Name Already Taken</h2>");//prints out if username is
already in database
```

```php
    }
    elseif(strlen($Pass) !== 6){//makes sure password is six letters
        echo("<h2>Password Has To Be 6 Characters Long</h2>");//prints out if the
password is not 6 characters
    }
    elseif ($Pass != $ConPass){    //makes sure the confirm password matches
        echo("<h2>Passwords Do Not Match</h2>");//prints out if confirm password
matches
    }
    elseif ($TNLen = strlen((string)$TN) !== 10){// makes sure mobile numbers are longer
than 10 digits
        echo("<h2>Telephone Phone Number Must Be 10 Digits Long</h2>");//prints
out if mobile phonenumber is not longer than 10 digits
    }
    elseif ($MNLen = strlen((string)$MN) !== 10){// makes sure mobile numbers are
longer than 10 digits
        echo("<h2>Mobile Phone Number Must Be 10 Digits Long</h2>");//prints out
if mobile phonenumber is not longer than 10 digits
    }
    else{
        //sql query to insert infomration into the database
        $sql = "INSERT INTO Users (UserName, Password, FirstName, Surname,
AddressLine1, AddressLine2, City, TelephoneNum, MobileNum)
        VALUES ('$UN', '$Pass', '$FN', '$SN', '$ADL1', '$ADL2', '$CTY', '$TN', '$MN')";

        //checks to see if the information went in
        if ($conn->query($sql) === TRUE ) {?>
            <div class = "success">
                <!-- prints out to show success -->
                <p><?php echo "Successful Registration.<br>"; ?></p>
                <p><?php echo"Please Click The Link To Login."; ?></p>
                <?php echo'<h2><a href="Login.php">Login</a></h2>'; ?>
```

```php
                </div>
        <?php
        }
        ?>
        <?php
        }
        ?>
        <?php
    }
        ?>
        <?php
        $conn->close();//close database connection
?>
```
```html
<!-- form used to make the input boxes and pass the information into the system -->
<form method="POST">
        <div class= "registration">
        <H1> Registration</H1>
        <h3>User Name:
                <input type="text" id="UName" name="UName">
        </h3>
        <h3>Password:
                <input type="text" id="Password" name="Password" ></input>
        </h3>
        <h3>Confirm Password:
                <input type="text" id="ConfirmPassword"  name="ConfirmPassword">
        </h3>
        <h3>First Name:
                <input type="text" id="FirstName" name="FirstName">
        </h3>
```

```html
        <h3>Surname:

                <input type="text" id="Surname" name="Surname">

        </h3>

        <h3>Address Line 1:

                <input type="text" id="AddressLine1" name="AddressLine1">

        </h3>

        <h3>Address Line 2:

                <input type="text" id="AddressLine2" name="AddressLine2">

        </h3>

        <h3>City:

                <input type="text" id="City" name="City">

        </h3>

        <h3>Telephone Number:

                <input type="number" id="TelephoneNum" name="TelephoneNum">

        </h3>

        <h3>Mobile Number:

                <input type="number" id="MobileNum" name="MobileNum">

        </h3>

</div>

<div class = "regbut">

        <input type="submit"  value="Register"/> <input type ="reset" value="Clear"/>

        <a href="Login.php">Cancel</a><!--buttons to submit and clear information and a
link if you want to not register -->

</div>

</form>

</body>

<footer>

</footer>

</html>
```

Search

```php
<?php

session_start();//session start to use an session variables

?>
```
```html
<html>

<header>

<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file -->

<h1>LoveLibrary.com</h1><!-- What the web page is called -->

<p><?php echo $_SESSION["username"]; echo" Logged in"?></p><!-- Shows who is logged in -->

<ul>

        <h3>

                <a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved Books / </a> <a href="Logout.php">Logout</a><!-- Header Navigation bar -->

        </h3>

</ul>

</header>

<body>

<!-- dropdown menu form to take in the category code -->

<form method="POST">

        <div class = "Cate">

                <h3>Category/Genre:

                <select id="CategoryCode" name="CategoryCode"></h3><!-- box to hold dropdown selected option -->

                        <!-- drop down search options -->

                        <option value = ''></option>

                        <option value = 001>Health</option>

                        <option value = 002>Business</option>

                        <option value = 003>Biography</option>
```

```html
                    <option value = 004>Technology</option>

                    <option value = 005>Travel</option>

                    <option value = 006>Self-Help</option>

                    <option value = 007>Cookery</option>

                    <option value = 008>Fiction</option>

            </select>

        </div>

        <div class = "catsearch">

                <input type="Submit" value="Search"><!-- button to submit input -->

        </div>

</form>

<!-- form to take in the input for the search bar -->

<form method="POST">

        <div class = "search">

                <h3>Search:

                        <input type="text" placeholder="Search for BookTitle or Author" id="Search" name="Search">

                </h3><!-- box to take search input-->

        </div>

        <div class = "searchbut">

                <input type="submit" value="Search"/><!-- button to submit input -->

        </div>

</form>


<?php

$servername= "localhost";

$username = "root";

$password = "";

$dbname= "bookdb";

// Create connection
```

```php
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error)
{
        die("Connection failed: " . $conn->connect_error);
}
if(empty($_SESSION['username'])){//checks if session variable username is empty
        header("Location: Login.php");//sends you back to login page
}
if (isset($_POST['CategoryCode'])){//checks if category input box has sommething submitted
        $CC = $conn -> real_escape_string($_POST['CategoryCode']);//sets $cc to the
category code
        $sql2 ="SELECT * FROM books WHERE CategoryCode ='$CC'";//sql query to select all
information from the books table where the category code matches
        $result = mysqli_query($conn, $sql2);//runs the sql query
        if ($result->num_rows > 0) {//checks that the sql results has more than zero rows
                $_SESSION["Cate"] = "$CC";//sets session variable cate
                header("Location: DisplayCategory.php");//sends the user to the category
display page
        }
        else{
                echo"<h2> No Results Plese Try Something Else </h2>";
        }
}


if (isset($_POST['Search'])){//checks is search input  box has something submitted
        $S = $conn -> real_escape_string($_POST['Search']);//sets $s to the submitted value
form the search input box
        $sql3 ="SELECT * FROM books WHERE BookTitle LIKE '%$S%' OR Author LIKE
'%$S%'";//sql query to select all data from books
        //where the search input matches data in the database
```

```php
        $result = mysqli_query($conn, $sql3);//runs the sql query

        if ($result->num_rows > 0) {//checks if number of rows is less than zero

                $_SESSION["search"] = "$S";//sets session variable to the search bar input

                header("Location: DisplaySearch.php?=");//sends the user to the searc
display page

        }

        else{

                echo"<h2> No Results Plese Try Something Else </h2>";

        }

        }


$conn->close();//closes connection to database

?>
```

```html
</table>

</body>

<footer>

<ul>

        <h3>

                <a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved
Books / </a> <a href="Logout.php">Logout</a><!-- Footer Navigation bar -->

        </h3>

</ul>

</footer>

</html>
```

Display Category

```php
<?php

session_start();//session start to use an session variables

?>
```

```html
<html>
<header>
<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file  -->
<h1>LoveLibrary.com</h1><!-- What the web page is called -->
<p><?php echo $_SESSION["username"]; echo" Logged in"?></p><!-- Shows who is logged in -->
<ul>
        <h3><a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved Books / </a> <a href="Logout.php">Logout</a></h3><!-- Navigation bar -->
</ul>
</header>
<body>
<h1>Category Results</H1>
<?php
//connection credentials
$servername= "localhost";
$username = "root";
$password = "";
$dbname= "bookdb";
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error)
{
        die("Connection failed: " . $conn->connect_error);
}
if(empty($_SESSION['username'])){//checks if session variable username is empty
        header("Location: Login.php");//sends you back to login page
}
```

```php
if(empty($_SESSION['Cate'])){//checks if session variable Cate is empty

        header("Location: Search.php");//brings user to search page

}

$results_per_page = 5;

$page = 1;

$CATEGORY = $_SESSION["Cate"];// sets Category to the session variable Cate

        if(isset($_GET["page"])){//see's if page in url is set

                $page = $_GET["page"];//sets page variable to page num in url

        }

        else{

                $page =1;// sets page to 1

        }

        $start_from = ($page-1) * $results_per_page;//sets start for to the page variable
number -1 multiplied by 5

        $sql2 ="SELECT * FROM books WHERE CategoryCode ='$CATEGORY' LIMIT
$start_from, $results_per_page";/*sql query that finds all the

        records related to the search and puts a limit on them of where the list will start and
how many rows will be selected from that point*/

        $result = mysqli_query($conn, $sql2);//will run the sql staement in the database

        //displays colummns headings

        echo "<table border ='1'>";

        echo "<tr>";

        echo "<th>ISBN</th>";

        echo "<th>Book Title</th>";

        echo "<th>Author</th>";

        echo "<th>Edition</th>";

        echo "<th>Year Published</th>";

        echo "<th>CategoryCode</th>";

        echo "<th>Reserved Status</th>";

        echo "</tr>";
```

```php
//prints out the rows selected from the sql query
while ($row = mysqli_fetch_array($result)) {
        echo "<tr><td>";
        echo (htmlentities ($row["ISBN"]));
        echo "</td><td>";
        echo (htmlentities ($row["BookTitle"]));
        echo "</td><td>";
        echo (htmlentities ($row["Author"]));
        echo "</td><td>";
        echo (htmlentities ($row["Edition"]));
        echo "</td><td>";
        echo (htmlentities ($row["Year"]));
        echo "</td><td>\n";
        echo (htmlentities ($row["CategoryCode"]));
        echo "</td><td>\n";
        echo (htmlentities ($row["Reserved"]));
        echo "</td><td>\n";
        echo('<a style="color:blue; text-decoration:underline;"
        href="Reserve.php?id='.htmlentities($row['ISBN']).'">Reserve
Book</a>');//adds the reserve book
        //link at the end of the rows in the table
        echo ("</td></tr>\n");
    }
        $page_query = "SELECT * FROM books WHERE CategoryCode
='$CATEGORY'";//sql query that selects all data from  the database
        //where the category code matches the search
        $page_result = mysqli_query($conn, $page_query);//runs the sql query
through the database
        $total_records = mysqli_num_rows($page_result);//gets the number of rows
form the ran sql query
```

```php
                $total_page = ceil($total_records/$results_per_page);//finds the number of
pages needed by getting the number of all

                //results and dividing it by 5 and ceil will round it up if its a fraction

                //for loop to print out the links to the number of pages needed

                for($i=1; $i<=$total_page; $i++){

                        echo "<a style ='font-size:30px; color: black; text-decoration:
underline; ' href='DisplayCategory.php?page=".$i."'>".$i."</a>  ";

                }

                $conn->close();//closes connection to the database
?>
</body>
</html>
```

Display Search

```php
<?php
session_start();//session start to use an session variables
?>
<html>
<header>
<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file  -->
<h1>LoveLibrary.com</h1><!-- What the web page is called -->
<p><?php echo $_SESSION["username"]; echo" Logged in"?></p><!-- Shows who is logged in -->
<ul>
        <h3><a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved
Books / </a> <a href="Logout.php">Logout</a></h3><!-- Header Navigation bar -->
</ul>
</header>
```

```php
<body>
<h1>BookTitle or Author Results</H1>
<?php
//Connection credentials
$servername= "localhost";
$username = "root";
$password = "";
$dbname= "bookdb";
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error)
{
        die("Connection failed: " . $conn->connect_error);
}
if(empty($_SESSION['username'])){//checks if session variable username is empty
        header("Location: Login.php");//sends you back to login page
}
if(empty($_SESSION['search'])){//checks if session variable search is empty
        header("Location: Search.php");//brings user to search page
}
$results_per_page = 5;
$page = 1;
$SERCH = $_SESSION["search"]; //sets search to the session variable search
        if(isset($_GET["page"])){//see's if page in url is set
                $page = $_GET["page"];//sets page variable to page num in url
        }
        else{
                $page =1;// sets page to 1
```

```php
        }
        $start_from = ($page-1) * $results_per_page;//sets start for to the page variable
number -1 multiplied by 5

        $sql3 ="SELECT * FROM books WHERE BookTitle LIKE '%$SERCH%' OR Author

        LIKE '%$SERCH%' LIMIT $start_from, $results_per_page";/*sql query that finds all
the records related to

        the search and puts a limit on them of where

        the list will start and how many rows will be selected from that point*/

        $result = mysqli_query($conn, $sql3);//will run the sql staement in the database

        //diaplays the column headings

        echo "<table border ='1'>";

        echo "<tr>";

        echo "<th>ISBN</th>";

        echo "<th>Book Title</th>";

        echo "<th>Author</th>";

        echo "<th>Edition</th>";

        echo "<th>Year Published</th>";

        echo "<th>CategoryCode</th>";

        echo "<th>Reserved Status</th>";

        echo "</tr>";

        //prints out the rows selected from the sql query

        while ($row = mysqli_fetch_array($result)) {

                echo "<tr><td>";

                echo (htmlentities ($row["ISBN"]));

                echo "</td><td>";

                echo (htmlentities ($row["BookTitle"]));

                echo "</td><td>";

                echo (htmlentities ($row["Author"]));

                echo "</td><td>";

                echo (htmlentities ($row["Edition"]));
```

```php
            echo "</td><td>";

            echo (htmlentities ($row["Year"]));

            echo "</td><td>\n";

            echo (htmlentities ($row["CategoryCode"]));

            echo "</td><td>\n";

            echo (htmlentities ($row["Reserved"]));

            echo "</td><td>\n";

            echo('<a style=" color: blue; text-decoration: underline;"

            href="Reserve.php?id='.htmlentities($row['ISBN']).'">Reserve
Book</a>');//adds the reserve book

            //link at the end of the rows in the table

            echo ("</td></tr>\n");

    }

            $page_query = "SELECT * FROM books WHERE BookTitle LIKE '%$SERCH%' OR
Author LIKE '%$SERCH%' ";//sql query that selects all data from

            //the database where the booktitle and author match the search

            $page_result = mysqli_query($conn, $page_query);//runs the sql query
through the database

            $total_records = mysqli_num_rows($page_result);//gets the number of rows
form the ran sql query

            $total_page = ceil($total_records/$results_per_page);//finds the number of
pages needed by getting the number of all

            //results and dividing it by 5 and ceil will round it up if its a fraction

            //for loop to print out the links to the number of pages needed

            for($i=1; $i<=$total_page; $i++){

                    echo "<a style ='font-size:30px; color: black; text-decoration:
underline; ' href='DisplaySearch.php?page=".$i."'>".$i."</a>  ";

            }

            $conn->close();//closes connection to database

?>

</body>
```

</html>

Reserve

```php
<?php
session_start();//session start to use an session variables
?>
<html>
<header>
<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file  -->
<h1>LoveLibrary.com</h1><!-- What the web page is called -->
<p><?php echo $_SESSION["username"]; echo" Logged in"?></p><!-- Shows who is logged in -->
<ul>
        <h3><a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved Books / </a> <a href="Logout.php">Logout</a> </h3><!-- Header Navigation bar -->
</ul>
</header>
<body>
<?php
//connection credentials
$servername= "localhost";
$username = "root";
$password = "";
$dbname= "bookdb";
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
        die("Connection failed: " . $conn->connect_error);
}
```

```php
if(empty($_SESSION['username'])){//checks if session variable username is empty

        header("Location: Login.php");//sends you back to login page

}

$ISBN = $conn -> real_escape_string($_GET['id']);//gets isbn from the url

$N = "N";// variable to use to find non reserved books in the sql statement

$sql2 = "SELECT Reserved FROM books WHERE ISBN ='$ISBN' AND Reserved ='$N'";

$result = mysqli_query($conn, $sql2);//runs sql query

if(mysqli_num_rows($result) == 1 ){//checks if there is one row in result of the query

        $ISBN = $conn -> real_escape_string($_GET['id']);//grabs the id from the url

        $sql3 = "Select BookTitle FROM books WHERE ISBN = '$ISBN'";//sql query to find
booktitle where sql query matches

        $result2 = mysqli_query($conn, $sql3);//runs query

        while($row = mysqli_fetch_array($result2)){//while loop to print results form query

                echo $row['BookTitle'];//prints book title

        }

        echo"&nbsp";//space

        $sql = "UPDATE books SET Reserved ='Y' WHERE ISBN = '$ISBN' ";//sql query to
update the reserved section to Y where the isbn matches

        mysqli_query($conn, $sql);//runs the query

        echo 'Reserved - <a href="Search.php">Continue....</a>';//prints out that the book is
reserved and the the link to continue back to the search page

        $DATE = strftime('%F');//sets $date to current date

        $SESS = $_SESSION["username"];//sets $sess to session variable username

        $sql1 ="INSERT INTO reservedbooks (ISBN, UserName, ReservedDate) VALUES
('$ISBN', '$SESS', '$DATE')";//sql query to insert

        //the ISBN, username and reserved date into the reservedbook table

        $result = mysqli_query($conn, $sql1);//runs sql query

        return;//returns

}

else{
```

```php
        echo"<h2>Book Already Reserved</h2>";//this is whats printed if anything other
than the success scenario happens

        echo "<br>";

        return;

}

$conn->close();//closes connection to the database

?>

</body>

</html>
```

Show_Reserve

```php
<?php

session_start();//session start to use an session variables

?>

<html>

<header>

<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file  --
>

<h1>LoveLibrary.com</h1><!-- What the web page is called -->

<p><?php echo $_SESSION["username"]; echo" Logged in"?></p><!-- Shows who is logged
in -->

<ul>

        <h3><a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved
Books / </a> <a href="Logout.php">Logout</a> </h3><!-- Header Navigation bar -->

</ul>

</header>

<body>

<?php

//connection credentials

$servername= "localhost";
```

```php
$username = "root";

$password = "";

$dbname= "bookdb";

// Create connection

$conn = mysqli_connect($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect_error)

{

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

}

if(empty($_SESSION['username'])){//checks if session variable username is empty

        header("Location: Login.php");//sends you back to login page

}

$SES = $_SESSION["username"];//sets $ses to the session variable username

$sql = "SELECT BookTitle , reservedbooks.ISBN, ReservedDate FROM books LEFT OUTER JOIN
reservedbooks

ON reservedbooks.ISBN = books.ISBN  WHERE UserName = '$SES'";/*sql query to get
BookTitle from the

books table and ISBN and reservedDate from the reserved books table using the $ses
variable */

$result = mysqli_query($conn,$sql);//$results set to the results of the sql query

if ($result->num_rows > 0) {//checks that there is more than zero rows reusulting from the
query

        echo "<H2> Reserved Books</H2>";//header above the results

        //prints the column headers

        echo "<table border ='1'>";

        echo "<tr>";

        echo "<th>Book Title</th>";

        echo"<th>ISBN</th>";

        echo "<th>Date Book Reserved</th>";

        echo "</tr>";
```

```php
        //prints out the rows selected from the sql query

        while ($row = $result->fetch_assoc()) {

                echo "<tr><td>";

                echo (htmlentities ($row["BookTitle"]));

                echo "</td><td>";

                echo (htmlentities ($row["ISBN"]));

                echo "</td><td>";

                echo (htmlentities ($row["ReservedDate"]));

                echo "</td><td>";

                echo('<a style="color:blue; text-decoration:underline;"
href="Unreserve.php?id='.

                htmlentities($row["ISBN"]).'">Unreserve Book</a>');//adds the unreserve
book link at the end of the rows in the table

                echo ("</td></tr>\n");

        }

}

        else {

                echo "<h2>No Books Reserved</h2>";//what prints out if there are no
reserved books

        }

        $conn->close();//closes the connection to the database

?>

</table>

</body>

<footer>

<ul>

        <h3>

                <a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved
Books / </a> <a href="Logout.php">Logout</a><!-- Footer Navigation bar -->

        </h3>

</ul>
```

</footer>

</html>

Unreserve

```php
<?php

session_start();//session start to use an session variables

?>
```

```html
<html>

<header>

<link rel="stylesheet"  href="style.css"/><!-- connecting the style sheet file to the html file  -->

<h1>LoveLibrary.com</h1><!-- What the web page is called -->

<p><?php echo $_SESSION["username"]; echo" Logged in"?></p><!-- Shows who is logged in -->

<ul>

        <h3>

                <a href="Search.php">Search / </a> <a href="Show_Reserve.php">Reserved Books / </a> <a href="Logout.php">Logout</a><!-- Navigation bar -->

        </h3>

</ul>

</header>
```

```php
<body>
<?php
//Connection credentials

$servername= "localhost";

$username = "root";

$password = "";

$dbname= "bookdb";

// Create connection

$conn = mysqli_connect($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect_error) {

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

}

if(empty($_SESSION['username'])){//making sure the user is logged in

        header("Location: Login.php");//sends you back to login page

}

$ISBN = $conn -> real_escape_string($_GET['id']);//getting the id that was passed in the url

$Y = "Y";// variable to use to find reserved books in the sql statement

$sql2 = "SELECT Reserved FROM books WHERE ISBN ='$ISBN' AND Reserved ='$Y'";//sql
query to find the the resevred book

//using the ISBN and the variable for reserved

$result = mysqli_query($conn, $sql2);//runnin the sql statement in the database

if(mysqli_num_rows($result) == 1 ){//seeing if the number of results is equal to one to
proceed

        $sql = "UPDATE books SET Reserved ='N' WHERE ISBN = '$ISBN' ";//sql query that
updates the book to not reserved in the database

        mysqli_query($conn,$sql);//run the sql statement

        echo 'Book Unreserved - <a style="color:blue"
href="Show_Reserve.php">Continue....</a>';//shows the the book has been

        //unreserved and links back to show pag
```

```php
        $sql1 ="DELETE FROM reservedbooks WHERE ISBN ='$ISBN'";//sql query that will
delete the row where the ISBN matches

        mysqli_query($conn, $sql1);//runs the sql statement to delete the row

}

//prints out error in the case something goes wrong

else{

        echo"<h1>Error<h1>";

        return;

}

$conn->close();//closes connection to database

?>

</body>

</html>
```

Logout

```php
<?php

session_start();//starts session and gets session variables

session_destroy();//destroys all session variables

header("Location:Login.php");//sends to login page

?>
```

Style

```css
header, nav,main,footer,figure,section,article{ display: block;}

/**********************************************************************
******/

/*  styles for all pages*/

/**********************************************************************
******/

/*start of header*/


header ul h3 a{
```

```css
        color:black;

        font-size: 23px;

}

header ul h3 a:hover{

        color: white;

}

header ul h3 {

        border-style:double;

        width:350px;

        text-align:center;

}

header{

        width:auto;

        height:150px;

        background-color: #bcbcbc;

        font:"Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;

}

header h1{

        color: black;

        text-align:center;

}

/* End of Header*/

/* Start of Body*/

body{

        background-color: #ffffff;

        color: #000000;

        font:"Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;

}

body tr{
```

```css
		text-align:center;

		background-color:#bcbcbc;

}

body th{

		background-color:black;

		color:#bcbcbc;

}

body td{

		padding: 8px 20px;

		text-align:center;

		vertical-align:center;

		background-color:#bcbcbc;

}

/* End of Body */

/* Start of Footer*/

footer{

		background-color:black;

		width:auto;

		height:200px;

		margin-top: 400px;

		color:white;

}

footer ul{

		text-align:center;

		font-size: 40;

}

/*end of Footer*/


/* Start of Login*/
```

```css
div.login-container{

        border-radius: 25px;

        background-color: #bcbcbc;

        width: 500px;

        height: 360px;

        margin-top:100px;

        margin-left: auto;

        margin-right: auto;

        padding: 7px 15px;

}
.login-container h3{

        font:"Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;

        font-size: 30px;

}


.login-container h1{

        font:"Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;

        font-size: 40px;

        text-align: center;

}
.login-container input{

        display: inline-block;

        float:right;

        padding: 8px 30px;

        font-size: 20px;

        margin-left:auto;

        margin-right:auto;

}
.login-container a{
```

```css
        display: inline-block;

        float:right;

        font: normal 20px "Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;

        text-align: center;

        width: auto;

        color:blue;

        padding: 10px 20px;

        margin-left: auto;

        margin-right: auto;

        text-decoration:underline;

}
.login-container a:hover{

        color:purple;

}
/*end Login*/
/* Search page category drop down section*/
div.Cate{

        border-radius: 25px;

        background-color: #bcbcbc;

        text-align:center;

}
.cate h3{

        font-size:40px;

}
.Cate select{

        padding: 10px 20px;

        font-size: 20px;

        width: auto;

}
```

```css
.Cate option{

        padding: 10px 20px;

        font-size: 20px;

        width: auto;

}

/* end of category section */

/* category search button */

div.catsearch{

        text-align: center;

}

.catsearch input{

        padding: 8px 20px;

        font-size: 20px;

        width: auto;

}

/*  end of categorysearch button */

/* start of search section*/

div.search{

border-radius: 25px;

        background-color: #bcbcbc;

        text-align:center;

}

.search h3{

        font-size:40px;

}

.search input{

        padding: 8px 20px;

        font-size: 20px;

        width: 320px;
```

```css
}
/* End of serach section*/
/* Search Button*/
div.searchbut{
        text-align: center;
}
.searchbut input{
        padding: 8px 20px;
        font-size: 20px;
        width: auto;
}


/* registration box*/
div.registration{
        border-radius: 25px;
        background-color: #bcbcbc;
        width: 500px;
        height: 630px;
        margin-top:100px;
        margin-left: auto;
        margin-right: auto;
        font-size: 20px;
        padding: 7px 10px;
}
.registration h1{
        font:"Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;
        font-size: 40px;
        text-align: center;
        text-decoration:underline;
```

```css
}
.registration h3{
        float:center;
        padding-bottom:10px;
        font:"Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;
        font-size: 20px;
        text-align: center;
}
.registration input{
        padding: 6px 10px;
        display: inline-block;
        float:right;
        font-size: 15px;
        width:60%;
}
/*registration button*/
div.regbut{
        font: normal 20px "Helvetica Neue", Arial, Helvetica, Geneva, sans-serif;
        text-align: center;
        width: auto;
        padding: 10px 20px;
        margin-left: auto;
        margin-right: auto;
}
.regbut input{
        padding: 7px 10px;
        font-size:20px;
}
.regbut a{
```

```css
        color:blue;

        text-decoration:underline;

}

/**success text after reg */

.success p{

        font-size:40px;

}

.success a{

        font-size:40px;

}
```