

# Web Development Assignment

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## **Confgr.php**

//Before we can access data in the MySQL database, we need to be able to connect to the server hence we connect to server by confgr file.

## **Function.php**

// filters the data that comes in, prepares the mysql query to select the users and shows each user as a link. Function file holds the necessary functions for search, reserve and lastly cancel book.

## **Index.php**

//We use session to find if the user is not logged in if not redirect to the login, dedicates how much data per page, we receive the page number by method get via 'page' variable, Finds how much data in the table, Finds the total page number and rounds it up, If the user prompts a number smaller than 1 show page 1, If the user prompts a number bigger than the total page number show the last page, Dedicate from which data we start to list the database by limit and lastly with the prepare argument we draw the table according to the limit parameters we have determined. Index page holds all the books in the library.

## **Reserved-books.php**

//We use session to find if the user is not logged in if not redirect to the login, dedicates how much data per page, we receive the page number by method get via 'page' variable, Find how much data in the table, Find the total page number and round it up, If the user prompts a number smaller than 1 show page 1, If the user prompts a number bigger than the total page number show the last page, Dedicate from which data we start to list the database by limit and With the prepare argument we draw the table according to the limit parameters we have determined. Reserved books page holds all the reserved books by the user.

## **Login.php**

//Login page takes the given input by the user and checks if the credentials exist in the database.

## **Register.php**

//Checks if the user exist, and if all the conditions are met system adds the new user.

## **Search-book.php**

//We use session to find if the user is not logged in if not redirect to the login, dedicates how much data per page, we receive the page number by method get via 'page' variable, Finds how much data in the table, Finds the total page number and rounds it up, If the user prompts a number smaller than 1 show page 1, If the user prompts a number bigger than the total page number show the last page, Dedicate from which data we start to list the database by limit, With the prepare argument we draw the table according to the limit parameters we have determined. Search file is used for looking up a book by either typing (author or/and title) or selecting a category of a desired book.

## **Logout.php**

//Redirects to the Home page which directs to Login Page.

## **General Case and how the php files interacts with each other:**

On my site, a login page shows up first as we require the user to log in to the system for accessing the Library. The user either should prompt their already existing credentials or sign up to the system.

If the user chooses to sign up the system asks the user to input the required information pieces and makes sure that all information pieces are given. System checks if the username is unique and if it's not it gives an error message to the user, also the system makes sure the given password has 6 characters in length and checks if the passwords match to make sure the user didn't make any mistake. Moreover, the system makes sure the given mobile phone holds 10 numeric characters in length.

After Logging in The Library Area shows up. It has a searching function on the top right corner that allows the user to either search the book title and/or Author and a drop box menu that shows the books by their categories. Right beside the searching box, there is a Logout option for the user to log out as they wish. Furthermore, we allow the user to reserve books by clicking on the Reserve Book button if it's available the system adds the book to the current user's reserved books which the user can access their reserved books from the View Reserved Books button. Moreover, from the user's reserved books area, the user can cancel their reserved books. Lastly, the Library system only allows 5 data rows on a single page hence the user can use interactive page numbers to look through the system.

## **Source Codes:**

### **Confgr.php**

```
<?php
```

```
$servername = "localhost";
```

```
$dbName = "webproject";
```

```
$username = "root";
```

```

$password = "";

try {
    $db = new PDO("mysql:host=$servername;dbname=".$dbname, $username, $password);
    // set the PDO error mode to exception
    $db->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
} catch(PDOException $e) {
    echo "Connection failed: " . $e->getMessage();
}

session_start();

?>

```

## Function.php

```

<?php
require_once "confgr.php";

if (@$_GET['searchText']){
    // filter the data that comes in
    $text = $_GET['searchText'];
    // prepare the mysql query to select the users
    $get_name = $db->prepare("SELECT BookTitle FROM books WHERE BookTitle LIKE concat('%',
:title, '%') LIMIT 0, 10");
    // execute the query
    $get_name -> execute(array('title' => $text));
    // show the users on the page
    while($names = $get_name->fetch(PDO::FETCH_ASSOC)){

```

```

        // show each user as a link

        echo '<a href="javascript:void(0)">'.$names['BookTitle'].'</a>';

    }

}

if (@$_GET['process'] == 'cancelReserve') {

    $query = $db->prepare("DELETE FROM reservations WHERE ISBN = :ISBN AND UserName = :UserName");

    $delete = $query->execute(array(

        'ISBN' => $_GET['isbn'],

        'UserName' => $_SESSION['UserName']

    ));

    if ($delete) {

        $query = $db->prepare("UPDATE books SET Reserv = :Reserv WHERE ISBN = :ISBN");

        $update = $query->execute(array(

            "Reserv" => 'N',

            "ISBN" => $_GET['isbn']

        ));

        if ($update) {

            print "Cancelling book reservation successful. You are being redirected.";

            header('Refresh:2;url=index.php');

        }

    }

}

if (@$_GET['process'] == 'reserveBook') {

    $query = $db->prepare("INSERT INTO reservations SET ISBN = :ISBN, UserName = :UserName");

```

```

$insert = $query->execute(array(
    "ISBN" => $_GET['isbn'],
    "UserName" => $_SESSION['UserName']
));

if ( $insert ){

    $query = $db->prepare("UPDATE books SET Reserv = :Reserv WHERE ISBN = :ISBN");
    $update = $query->execute(array(
        "Reserv" => 'Y',
        "ISBN" => $_GET['isbn']
    ));

    if ($update) {
        print "Book reservation process successful, You are being redirected.";
        header('Refresh:2;url=reserved-books.php');
    }
}

}

```

?>

## Index.php

```

<?php
// We need to use session
require_once "confgr.php";

// If the user is not logged in redirect to the login
if (!isset($_SESSION['login'])) {
    header('Location: login.html');
    exit;
}

```

```
}
```

```
if (!isset($_GET['page'])) {  
    $nextPage = '2';  
} else {  
    $nextPage = $_GET['page'] + 1;  
    if ($_GET['page'] == '1') {  
        $prevPage = '1';  
    } else {  
        $prevPage = $_GET['page'] - 1;  
    }  
}
```

```
$line = 5; //how much data per page
```

```
if (!isset($_GET['page'])) {  
    $page = 1;  
} else {  
    $page = $_GET['page']; //we receive the page number by method get via 'page' variable  
}
```

```
$totalResult = $db->query("SELECT COUNT(*) FROM books")->fetchColumn(); //Find how much data  
in the table
```

```
$totalPage = ceil($totalResult / $line); //Find the total page number and round it up
```

```
if($page < 1) $page = 1; //If the user prompts a number smaller than 1 show page 1
```

```
if($page > $totalPage) //If the user prompts a number bigger than the total page number show the  
last page.
```

```
{  
    $page = (int)$totalPage;  
}
```

```
$limit = ($page - 1) * $line; //Dedicate from which data we start to list the database by limit
```

```
// With the prepare argument we draw the table according to the limit parameters we have determined.
```

```
$datas = $db->prepare("SELECT * FROM books inner join categories on categories.CategoryID = books.CategoryID LIMIT :start, :finish");
```

```
$datas->bindValue(":start",$limit,PDO::PARAM_INT);
```

```
$datas->bindValue(":finish",$line,PDO::PARAM_INT);
```

```
$datas->execute();
```

```
$books = $datas->fetchAll(PDO::FETCH_ASSOC);
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title>Home Page</title>
```

```
    <link rel="stylesheet" type="text/css" href="assets/index.css">
```

```
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
```

```
</head>
```

```
<body class="login">
```

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
```

```
    <a class="navbar-brand" href="#">Library Area</a>
```

```
    <div class="d-flex ml-auto">
```

```
        <a class="btn btn-info ml-2" href="search-book.php">Search for a book</a>
```

```
        <a class="btn btn-info ml-2" href="logout.php">Log Out</a>
```

```
    </div>
```

```
</nav>
```

```
<div id="form">

    <center><h1>Library System</h1></center>

    <center><h5 class="text-success">Welcome, <?php echo
$_SESSION['UserName']?></h5></center>

</div>

<hr>

<div class="container mb-5">

    <div class="tableUpBox">

        <a class="btn btn-info ml-auto m-2" href="reserved-books.php">View Reserved Books</a>

    </div>

    <table class="table table-striped text-center">

        <thead>

            <tr>

                <th scope="col">ISBN</th>

                <th scope="col">Title</th>

                <th scope="col">Author</th>

                <th scope="col">Edition</th>

                <th scope="col">Year</th>

                <th scope="col">Category</th>

                <th scope="col">Reserve Status</th>

            </tr>

        </thead>

        <tbody>

            <?php foreach ($books as $book): ?>

                <tr>

                    <th><?php echo $book['ISBN'] ?></th>

                    <th><?php echo $book['BookTitle'] ?></th>

                    <th><?php echo $book['Author'] ?></th>

                    <th><?php echo $book['Edition'] ?></th>

                    <th><?php echo $book['Year'] ?></th>

                    <th><?php echo $book['CategoryDesc'] ?></th>

                </tr>

            </tbody>

        </table>

    </div>

</div>
```



```

<th><?php if ($book['Reserv'] == 'N'): ?>

    <a class="btn btn-success" href="function.php?process=reserveBook&isbn=<?php echo
$book['ISBN']?>">Reserve Book</a>

    <?php else: ?>

        <button class="btn btn-danger">Reserved</button>

    <?php endif; ?>

</th>

</tr>

<?php endforeach; ?>

</tbody>

</table>

<nav>

    <ul class="pagination">

        <li class="page-item <?php echo (!isset($_GET['page'])) || ($_GET['page'] == '1') ? 'disabled' :
"?>">

            <a class="page-link" href="index.php?page=<?php echo $prevPage;?>">Previous</a>

        </li>

        <?php for($i = 1; $i<=$totalPage;$i++):?>

            <li class="page-item <?php echo (@$_GET['page']) == $i ? 'active' : "?"> <?php echo
(!isset($_GET['page'])) && $i == '1' ? 'active' : "?">">

                <a class="page-link" href="index.php?page=<?php echo $i;?>"><?php echo $i;?></a>

            </li>

        <?php endfor;?>

        <li class="page-item <?php echo (@$_GET['page'] == $totalPage) ? 'disabled' : "?">">

            <a class="page-link" href="index.php?page=<?php echo $nextPage;?>">Next</a>

        </li>

    </ul>

</nav>

</div>

<footer>

<div>

```

```
<h5>© Alkim Berke Kas 2021</h5>

</div>

</footer>

<script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.min.js"></script>
</body>
</html>
```

### **Reserved-books.php**

```
<?php

// We need to use session
require_once "confgr.php";

// If the user is not logged in redirect to the login
if (!isset($_SESSION['login'])) {
    header('Location: login.html');
    exit;
}

$username = $_SESSION['UserName'];

if (!isset($_GET['page'])) {
    $nextPage = '2';
} else {
    $nextPage = $_GET['page'] + 1;
    if ($_GET['page'] == '1') {
        $prevPage = '1';
    } else {
        $prevPage = $_GET['page'] - 1;
    }
}
```

```
}  
}
```

```
$line = 5; //how much data per page
```

```
if (!isset($_GET['page'])) {  
    $page = 1;  
} else{  
    $page = $_GET['page']; //we receive the page number by method get via 'page' variable  
}
```

```
$totalResult = $db->query("SELECT COUNT(*) FROM reservations")->fetchColumn(); //Find how  
much data in the table
```

```
$totalPage = ceil($totalResult / $line); //Find the total page number and round it up
```

```
if($page < 1) $page = 1; //If the user prompts a number smaller than 1 show page 1
```

```
if($page > $totalPage) //If the user prompts a number bigger than the total page number show the  
last page.
```

```
{  
    $page = (int)$totalPage;  
}
```

```
$limit = ($page - 1) * $line; //Dedicate from which data we start to list the database by limit
```

```
// With the prepare argument we draw the table according to the limit parameters we have  
determined.
```

```
$datas = $db->prepare("SELECT * FROM reservations inner join books on books.ISBN =  
reservations.ISBN inner join categories on categories.CategoryID = books.CategoryID where  
UserName = :UserName and Reserv = :Reserv LIMIT :start, :finish");
```

```
$datas->bindValue(':UserName', $username);
```

```
$datas->bindValue(':Reserv', 'Y');
```

```
$datas->bindValue(":start",$limit,PDO::PARAM_INT);
```

```
$datas->bindValue(":finish",$line,PDO::PARAM_INT);
```

```
$datas->execute();
```

```
$books = $datas->fetchAll(PDO::FETCH_ASSOC);
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title>Reserved Books</title>
```

```
    <link rel="stylesheet" type="text/css" href="assets/index.css">
```

```
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
```

```
</head>
```

```
<body class="login">
```

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
```

```
    <a class="navbar-brand" href="#">Library Area</a>
```

```
    <div class="d-flex ml-auto">
```

```
        <a class="btn btn-info ml-2" href="search-book.php">Search for a book</a>
```

```
        <a class="btn btn-info ml-2" href="logout.php">Log Out</a>
```

```
    </div>
```

```
</nav>
```

```
<div id="form">
```

```
    <center><h1><span class="text-info"><?php echo $username?></span> Reserved Books
Area</h1></center>
```

```
</div>
```

```
<hr>
```

```
<div class="container">
```

```
<div class="tableUpBox">
```

```
    <a class="btn btn-info ml-auto m-2" href="index.php">View All Books</a>
```

```
</div>
```

```
<?php if (!empty($books)):?>
```

```
    <table class="table table-striped text-center">
```

```
        <thead>
```

```
            <tr>
```

```
                <th scope="col">ISBN</th>
```

```
                <th scope="col">Title</th>
```

```
                <th scope="col">Author</th>
```

```
                <th scope="col">Edition</th>
```

```
                <th scope="col">Year</th>
```

```
                <th scope="col">Category</th>
```

```
                <th scope="col">Reserve Status</th>
```

```
            </tr>
```

```
        </thead>
```

```
        <tbody>
```

```
            <?php foreach ($books as $book): ?>
```

```
                <tr>
```

```
                    <th><?php echo $book['ISBN'] ?></th>
```

```
                    <th><?php echo $book['BookTitle'] ?></th>
```

```
                    <th><?php echo $book['Author'] ?></th>
```

```
                    <th><?php echo $book['Edition'] ?></th>
```

```
                    <th><?php echo $book['Year'] ?></th>
```

```
                    <th><?php echo $book['CategoryDesc'] ?></th>
```

```
                    <th><?php if ($book['Reserv'] == 'Y'): ?>
```

```
                        <a href="function.php?process=cancelReserve&isbn=<?php echo $book['ISBN']?>"
class="btn btn-danger">Cancel Reserve</a>
```

```
                    <?php endif; ?>
```

```
                </th>
```

```
            </tr>
```

```

        <?php endforeach; ?>

    </tbody>
</table>

<nav>

    <ul class="pagination">

        <li class="page-item <?php echo (!isset($_GET['page'])) || ($_GET['page'] == '1') ? 'disabled' :
"?>">

            <a class="page-link" href="?page=<?php echo $prevPage;?>">Previous</a>

        </li>

        <?php for($i = 1; $i<=$totalPage;$i++):?>

            <li class="page-item <?php echo (@$_GET['page']) == $i ? 'active' : "?">">

                <a class="page-link" href="?page=<?php echo $i;?>"><?php echo $i;?></a>

            </li>

        <?php endfor;?>

        <li class="page-item <?php echo (@$_GET['page'] == $totalPage) ? 'disabled' : "?">">

            <a class="page-link" href="?page=<?php echo $nextPage;?>">Next</a>

        </li>

    </ul>

</nav>

<?php else:?>

<div class="alert alert-info text-center">No data available.</div>

<?php endif;?>

</div>

<footer>

    <div>

        <h5>© Alkim Berke Kas 2021</h5>

    </div>

</footer>

<script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"></script>

```

```
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.min.js"></script>
</body>
</html>
```

## Login.php

```
<?php
require_once 'confgr.php';

if ($_POST['submit']){

    $username = $_POST['userName'];
    $password = $_POST['password'];

    if (!$username){
        $error = 'Please input your username ';
    } elseif (!$password){
        $error = 'Please input your password';
    } else {

        // check user
        $query = $db->prepare('SELECT * FROM user WHERE userName = :UserName');
        $query->execute([
            'UserName' => $username
        ]);
        $row = $query->fetch(PDO::FETCH_ASSOC);

        if ($row){

            // Check Password
            if ($password == $row['Password']){
                $password_verify = true;
```

```
}else{

    $password_verify = false;

}

if ($password_verify){

    $success = 'Logged in successfully, You are being redirected.';
    $_SESSION['login'] = 'success';
    $_SESSION['UserName'] = $username;
    header('Refresh:2;url=index.php');

} else {

    $error = 'Your password is incorrect, please check! You are being redirected to Home Page.';
    header('Refresh:2;url=login.html');

}

} else {

    $error = "This user doesn't exist in the database! You are being redirected to Home Page.";
    header('Refresh:2;url=login.html');
}

}

}

if (isset($success)){
    echo $success;
}
```



```
if (isset($error)){  
    echo $error;  
}
```

## Register.php

```
<?php
```

```
require_once "config.php";
```

```
if ($_POST['submit']){
```

```
    $username = $_POST['UserName'];
```

```
    $password = $_POST['Password'];
```

```
    $password_again = $_POST['PasswordC'];
```

```
    $firstName = $_POST['FirstName'];
```

```
    $lastName = $_POST['LastName'];
```

```
    $addressLine = $_POST['Address1'];
```

```
    $addressLine2 = $_POST['Address2'];
```

```
    $city = $_POST['City'];
```

```
    $tel = $_POST['Tel'];
```

```
    $mobileNo = $_POST['MobileNo'];
```

```
    if (!$username){
```

```
        $error = 'Please fill username fields!';
```

```
    } elseif (!$password || !$password_again){
```

```
        $error = 'Please fill password fields!';
```

```
    } elseif ($password != $password_again){
```

```
        $error = 'Your passwords did not match.';
```

```
    } else {
```

```
        // check if the user exist
```

```
        $query = $db->prepare('SELECT * FROM user WHERE userName = :UserName');
```

```
        $query->execute([
```

```

        'UserName' => $username
    });

    $row = $query->fetch(PDO::FETCH_ASSOC);

    if ($row){
        $error = 'This user name already exists. Please try another one.';
    } else {

        // add the new user

        $query = $db->prepare('INSERT INTO user SET UserName = :UserName,
        Password = :Password, FirstName = :FirstName, LastName = :LastName, AddressLine = :AddressLine,
        AddressLine2 = :AddressLine2, City = :City, Tel = :Tel, MobileNo = :MobileNo ');

        $result = $query->execute([
            'UserName' => $username,
            'Password' => $password,
            'FirstName' => $firstName,
            'LastName' => $lastName,
            'AddressLine' => $addressLine,
            'AddressLine2' => $addressLine2,
            'City' => $city,
            'Tel' => $tel,
            'MobileNo' => $mobileNo
        ]);

        if ($result){
            $success = 'Your account has been created successfully, You are
being redirected.';

            $_SESSION['login'] = 'success';
            $_SESSION['UserName'] = $username;
            header('Refresh:2;url=index.php');
        } else {

```

```

        $error = 'A problem occurred, please try again later.';
    }

}

}

if (isset($success)){
    echo $success;
    header('Refresh:2;url=index.php');
}

if (isset($error)){
    echo $error;
    header('Refresh:2;url=register.html');
}

}

?>

```

## Search-book.php

```

<?php
// We need to use session
require_once "confgr.php";

// If the user is not logged in redirect to the login
if (!isset($_SESSION['login'])) {
    header('Location: login.html');
}

```

```

    exit;
}

if (!isset($_GET['page'])) {
    $nextPage = '2';
} else {
    $nextPage = $_GET['page'] + 1;
    if ($_GET['page'] == '1') {
        $prevPage = '1';
    } else {
        $prevPage = $_GET['page'] - 1;
    }
}

$line = 5; //how much data per page

if (!isset($_GET['page'])) {
    $page = 1;
} else {
    $page = $_GET['page']; //we receive the page number by method get via 'page' variable
}

$totalResult = $db->query("SELECT COUNT(*) FROM books")->fetchColumn(); //Find how much data
in the table

$totalPage = ceil($totalResult / $line); //Find the total page number and round it up

if ($page < 1) $page = 1; //If the user prompts a number smaller than 1 show page 1

if ($page > $totalPage) //If the user prompts a number bigger than the total page number show the
last page.

{
    $page = (int)$totalPage;
}

$limit = ($page - 1) * $line; //Dedicate from which data we start to list the database by limit

```

```
// With the prepare argument we draw the table according to the limit parameters we have determined.
```

```
$datas = $db->prepare("SELECT * FROM books inner join categories on categories.CategoryID = books.CategoryID LIMIT :start, :finish");
```

```
$datas->bindValue(":start", $limit, PDO::PARAM_INT);
```

```
$datas->bindValue(":finish", $line, PDO::PARAM_INT);
```

```
$datas->execute();
```

```
$books = $datas->fetchAll(PDO::FETCH_ASSOC);
```

```
$categories = $db->query("SELECT * FROM categories")->fetchAll(PDO::FETCH_ASSOC);
```

```
if (isset($_GET['searchP'])) {
```

```
    $searchT = $_GET['searchP'];
```

```
    $datas = $db->prepare("SELECT * FROM books inner join categories on categories.CategoryID = books.CategoryID WHERE BookTitle LIKE :search OR Author LIKE :search LIMIT :start, :finish");
```

```
    $datas->bindValue(':search', '%' . $searchT . '%');
```

```
    $datas->bindValue(":start", $limit, PDO::PARAM_INT);
```

```
    $datas->bindValue(":finish", $line, PDO::PARAM_INT);
```

```
    $datas->execute();
```

```
    $books = $datas->fetchAll(PDO::FETCH_ASSOC);
```

```
    $datas->rowCount() < 5 ? $closePagenation = 'd-none' : $closePagenation = '';
```

```
}
```

```
if (isset($_GET['getcategory'])) {
```

```
    $datas = $db->prepare("SELECT * FROM books inner join categories on categories.CategoryID = books.CategoryID WHERE books.CategoryID =:cate ");
```

```
    $datas->bindValue(":start", $limit, PDO::PARAM_INT);
```

```
$datas->bindValue(":finish", $line, PDO::PARAM_INT);
```

```
$datas->execute([
```

```
    'cate' => $_GET['selectCategory']
```

```
]);
```

```
$books = $datas->fetchAll(PDO::FETCH_ASSOC);
```

```
$closePagination = 'd-none';
```

```
}
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title>Home Page</title>
```

```
    <link rel="stylesheet" type="text/css" href="assets/index.css">
```

```
    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">
```

```
    <style>
```

```
        #show_up {
```

```
            width: auto;
```

```
            height: auto;
```

```
            border: 1px solid #ddd;
```

```
            display: none;
```

```
        }
```

```
        #show_up a {
```

```
            border-bottom: 1px solid #ddd;
```

```
            display: block;
```

```
            padding: 5px;
```

```

    }
</style>
</head>
<body class="login">
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#">Library Area</a>
    <div class="d-flex ml-auto">
        <a class="btn btn-info ml-2" href="index.php">Home Page</a>
        <a class="btn btn-info ml-2" href="logout.php">Log Out</a>
    </div>

</nav>
<form class="container w-25 mb-3" style="margin-top: 50px;" action="" method="get">
    <div class="form-group">
        <h1>Search Library</h1>
        <label>Book Title and/or Author:</label>
        <input type="search" class="form-control" placeholder="Seach for book" id="search"
name="searchP">
        <div id="show_up"></div>
    </div>
    <button type="submit" class="btn btn-primary" name="submitSearchPage">Search</button>
</form>
<hr>
<div class="container">
    <div class="tableUpBox">
        <form class="form-inline" method="get">
            <div class="form-group">
                <select class="custom-select" name="selectCategory" required>
                    <option>Choose...</option>
                    <?php foreach ($categories as $category): ?>

```

```
        <option value="<?php echo $category['CategoryID']; ?>" <?php echo  
isset($_GET['selectCategory']) && $_GET['selectCategory'] == $category['CategoryID'] ? 'selected' : '';  
?>><?php echo $category['CategoryDesc']; ?></option>
```

```
    <?php endforeach; ?>
```

```
</select>
```

```
</div>
```

```
    <button type="submit" class="btn btn-info" name="getcategory" value="1">Get  
Category</button>
```

```
</form>
```

```
<div class="tableUpperAllBookBox">
```

```
    <a class="btn btn-info ml-auto m-2" href="index.php">View All Books</a>
```

```
</div>
```

```
</div>
```

```
<table class="table table-striped text-center">
```

```
    <thead>
```

```
    <tr>
```

```
        <th scope="col">ISBN</th>
```

```
        <th scope="col">Title</th>
```

```
        <th scope="col">Author</th>
```

```
        <th scope="col">Edition</th>
```

```
        <th scope="col">Year</th>
```

```
        <th scope="col">Category</th>
```

```
        <th scope="col">Reserve Status</th>
```

```
    </tr>
```

```
    </thead>
```

```
    <tbody>
```

```
    <?php foreach (@$books as $book): ?>
```

```
        <tr>
```

```
            <th><?php echo $book['ISBN'] ?></th>
```

```
            <th><?php echo $book['BookTitle'] ?></th>
```

```
            <th><?php echo $book['Author'] ?></th>
```

```
            <th><?php echo $book['Edition'] ?></th>
```



```

        <th><?php echo $book['Year'] ?></th>

        <th><?php echo $book['CategoryDesc'] ?></th>

        <th><?php if ($book['Reserv'] == 'N'): ?>

            <a class="btn btn-success"

                href="function.php?process=reserveBook&isbn=<?php echo $book['ISBN']
?>">Reserve Book</a>

            <?php else: ?>

                <button class="btn btn-danger">Reserved</button>

            <?php endif; ?>

        </th>

    </tr>

<?php endforeach; ?>

</tbody>

</table>

<?php if (empty($books)): ?>

    <div class="alert alert-info text-center">Data not found.</div>

<?php endif; ?>

<nav class="<?php echo $closePagenation; ?>">

    <ul class="pagination">

        <li class="page-item <?php echo (!isset($_GET['page'])) || ($_GET['page'] == '1') ? 'disabled' : "
?>">

            <a class="page-link" href="?page=<?php echo $prevPage; ?>">Previous</a>

        </li>

        <?php for ($i = 1; $i <= $totalPage; $i++): ?>

            <li class="page-item <?php echo (@$_GET['page']) == $i ? 'active' : " ?> <?php echo
(!isset($_GET['page'])) && $i == '1' ? 'active' : " ?>">

                <a class="page-link" href="?page=<?php echo $i; ?>"><?php echo $i; ?></a>

            </li>

        <?php endfor; ?>

        <li class="page-item <?php echo (@$_GET['page'] == $totalPage) ? 'disabled' : " ?>">

            <a class="page-link" href="?page=<?php echo $nextPage; ?>">Next</a>

```

```
        </li>
    </ul>
</nav>
</div>
<footer>
    <div>
        <h5>© Alkim Berke Kas 2021</h5>
    </div>
</footer>
```

```
<script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.min.js"></script>
<script type="text/javascript"
src="https://ajax.googleapis.com/ajax/libs/jquery/1.7.2/jquery.min.js"></script>
<script>
    $(document).ready(function (e) {

        $("#search").keyup(function () {
            $("#show_up").show();
            var text = $(this).val();
            $.ajax({
                type: 'GET',
                url: 'function.php',
                data: 'searchText=' + text,
                success: function (data) {
                    $("#show_up").html(data);
                }
            });
        });
    })
}
```

```
});  
</script>
```

```
</body>  
</html>
```

## Logout.php

```
<?php  
session_start();  
session_destroy();  
// Redirect to the Home page which directs to Login Page:  
header('Location: index.php');  
?>
```

## Login.html

```
<!doctype html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport"  
    content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-scale=1.0,  
minimum-scale=1.0">  
  <meta http-equiv="X-UA-Compatible" content="ie=edge">  
  <title>Login Page</title>  
  <link rel="stylesheet" type="text/css" href="assets/index.css">  
  <link rel="stylesheet"  
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">  
</head>  
<body class="login">  
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">  
  <a class="navbar-brand" href="#">Library Area</a>  
  <div class="d-flex ml-auto">  
    <a class="btn btn-info ml-2" href="register.html">Register</a>
```

</div>

</nav>

<div id="form">

<form class="login-form" method="post" action="login.php">

<div style="font-size: 40px;margin: 9px;color: #800000;">Login</div>

<div class="row">

<div class="form-group col-md-12">

<h4>Username:</h4>

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

</div>

</div>

<div class="row">

<div class="form-group col-md-12">

<h4>Password:</h4>

<input type="password" name="password">

</div>

</div>

<div class="row">

<div class="form-group col-md-6">

<input type="hidden" name="submit" value="1">

<input class="btn btn-info" type="submit" value="Login">

</div>

<div class="form-group col-md-6">

<a href="register.html" class="btn btn-info w-100">Signup</a><br><br>

</div>

</div>

</form>

</div>

<footer>

```
<div>

    <h5>© Alkim Berke Kas 2021</h5>

</div>
</footer>
</body>
</html>
```

## Register.html

```
<!doctype html>
<html lang="en">
<head>

    <meta charset="UTF-8">

    <meta name="viewport"
        content="width=device-width, user-scalable=no, initial-scale=1.0, maximum-
scale=1.0, minimum-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <link rel = "stylesheet" type = "text/css" href = "assets/register_style.css">

    <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css">

    <title>Register Page</title>
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

    <a class="navbar-brand" href="#">Library Area</a>

    <div class="d-flex ml-auto">

        <a class="btn btn-info ml-2" href="login.html">Login</a>

    </div>
</nav>

    <div id="form">

        <form method="post" action="register.php">

            <div style="font-size: 40px;margin: 9px;color: #800000;">Sign Up</div>

            <div class="row">

                <div class="form-group col-md-12">
```

```

        <h6>Username:</h6>
        <input type="text" name="UserName" required>
    </div>
</div>
<div class="row">
    <div class="form-group col-md-6">
        <h6>Password:</h6>
        <input type="password" name="Password" minlength="6"
maxlength="6" required>
    </div>
    <div class="form-group col-md-6">
        <h6>Confirm Password:</h6>
        <input type="password" name="PasswordC" minlength="6"
maxlength="6" required>
    </div>
</div>
<div class="row">
    <div class="form-group col-md-6">
        <h6>First Name:</h6>
        <input type="text" name="FirstName" required>
    </div>
    <div class="form-group col-md-6">
        <h6>Last Name:</h6>
        <input type="text" name="LastName" required>
    </div>
</div>
<div class="row">
    <div class="form-group col-md-12">
        <h6>Adress Line1:</h6>
        <input type="text" name="Adress1" required>
    </div>
</div>
</div>
```

```
<div class="row">
  <div class="form-group col-md-12">
    <h6>Adress Line2:</h6>
    <input type="text" name="Adress2" required>
  </div>
</div>
```

```
<div class="row">
  <div class="form-group col-md-6">
    <h6>City:</h6>
    <input type="text" name="City" required>
  </div>
</div>
```

```
<div class="row">
  <div class="form-group col-md-6">
    <h6>Tel Number:</h6>
    <input type="number" name="Tel" required>
  </div>
  <div class="form-group col-md-6">
    <h6>Mobile Number:</h6>
    <input type="number" name="MobileNo"
min="1000000000" max="9999999999" required>
  </div>
</div>
```

```
<div class="row">
  <div class="form-group col-md-6">
    <input type="hidden" name="submit" value="1">
    <input class="btn btn-info" type="submit" value="Add
New">
  </div>
```

```

        <div class="form-group col-md-6">
            <a class="btn btn-info w-100" href="login.html">Click to
Login</a>
        </div>
    </div>
</form>
</div>
<footer>
    <div>
        <h5>© Alkim Berke Kas 2021</h5>
    </div>
</footer>
</body>
</html>

```

## Search.html

```

<!DOCTYPE HTML>
<html>
<head>
    <title>Search Book</title>
    <link rel = "stylesheet" type = "text/css" href = "assets/search.css">
</head>
<body>
    <center><h2 style="font-size: 50px;margin: 7px;color: #800000;padding-top: 50px;">Library
Search</h2></center>

    <div id="form">
        <form action = "display_books.php" method="get">
            <h3>Enter the Title/Author of the book to be searched :</h3>
            <input id="text" type="text" name="srch"><br><br>
            <input id="button" type="submit" value="submit" formmethod="post"><br><br>

            <a href="index.php" id="button2">Home Page</a><br><br>
        </form>
    </div>

```



```
        </div>
    </body>
</html>
```

## **Index.css**

```
body{
    background: #FAEBD7;
}

#form{
    border: solid red 5px;
    width:25%;
    border-radius: 3px;
    margin: 50px auto;
    background: #F0F8FF;
    padding: 50px;
}

.login-form input{
    width: 100%;
}

#button{
    color: #fff;
    background: #4B0082;
    padding: 15px;

}

#button2{
    color: #fff;
    background: #4B0082;
    padding: 15px;
}
```

```
#button3{  
    color: #fff;  
    background: #4B0082;  
    padding: 15px;  
}
```

```
.navbarBox, .tableUpBox{  
    display: flex;  
    justify-content: space-between;  
}
```

```
.boxTop{  
    display: flex;  
    justify-content: space-between;  
}
```

```
.tableUpBox select{  
    width: 250px!important;  
    margin-right: 10px;  
}
```

```
hr {  
    -moz-border-bottom-colors: none;  
    -moz-border-image: none;  
    -moz-border-left-colors: none;  
    -moz-border-right-colors: none;  
    -moz-border-top-colors: none;  
    border-color: #EEEEEE -moz-use-text-color #FFFFFF;  
    border-style: solid none;  
    border-width: 1px 0;  
    margin: 18px 0;
```

```
}
```

```
body{  
    height:100vh; margin:0;  
    display:flex;  
    flex-direction:column;  
}
```

```
header{  
    min-height:50px;  
}
```

```
footer{  
    min-height:100px;  
    background: #000000;  
    color: #ffffff;  
    margin-top:auto;  
    display: flex!important;  
    justify-content: center;  
}
```

```
footer div{  
    align-self: center;  
}
```

## **Login\_style.css**

```
body{  
    background: #FAEBD7;  
}
```

```
#form{  
    border: solid red 5px;  
    width:23%;  
    border-radius: 3px;
```

```
margin: 150px auto;
background: #F0F8FF;
padding: 50px;
}
#button{
color: #fff;
background: #4B0082;
padding: 15px;
margin-right: 70%;
}
```

```
#button2{
color: #fff;
background: #4B0082;
padding: 15px;
margin-left: 66%;
}
```

### **Register\_style.css**

```
body{
background: #FAEBD7;
}
#form{
border: solid red 5px;
width:30%;
border-radius: 3px;
margin: 50px auto;
background: #F0F8FF;
padding: 50px;
}
#form input{
width: 100%;
```

```
}
```

```
#button{
```

```
    color: #fff;
```

```
    background: #4B0082;
```

```
    padding: 15px;
```

```
    margin-right: 70%;
```

```
}
```

```
#button2{
```

```
    color: #fff;
```

```
    background: #4B0082;
```

```
    padding: 15px;
```

```
    margin-left: 66%;
```

```
}
```

```
body{
```

```
    height:100vh; margin:0;
```

```
    display:flex;
```

```
    flex-direction:column;
```

```
}
```

```
header{
```

```
    min-height:50px;
```

```
}
```

```
footer{
```

```
    min-height:50px;
```

```
    background: #000000;
```

```
    color: #ffffff;
```

```
    margin-top:auto;
```

```
    display: flex!important;
```

```
    justify-content: center;
}
footer div{
    align-self: center;
}
```

## **Search.css**

```
body{
    background: #FAEBD7;
}
#form{
    border: solid red 5px;
    width:23%;
    border-radius: 3px;
    margin: 150px auto;
    background: #F0F8FF;
    padding: 30px;
}
#button{
    color: #fff;
    background: #4B0082;
    padding: 15px;
    margin-right: 50%;
    margin-top: 40px;
}

#text{
    width: 70%;
}

#button2{
    color: #fff;
```

background: #4B0082;

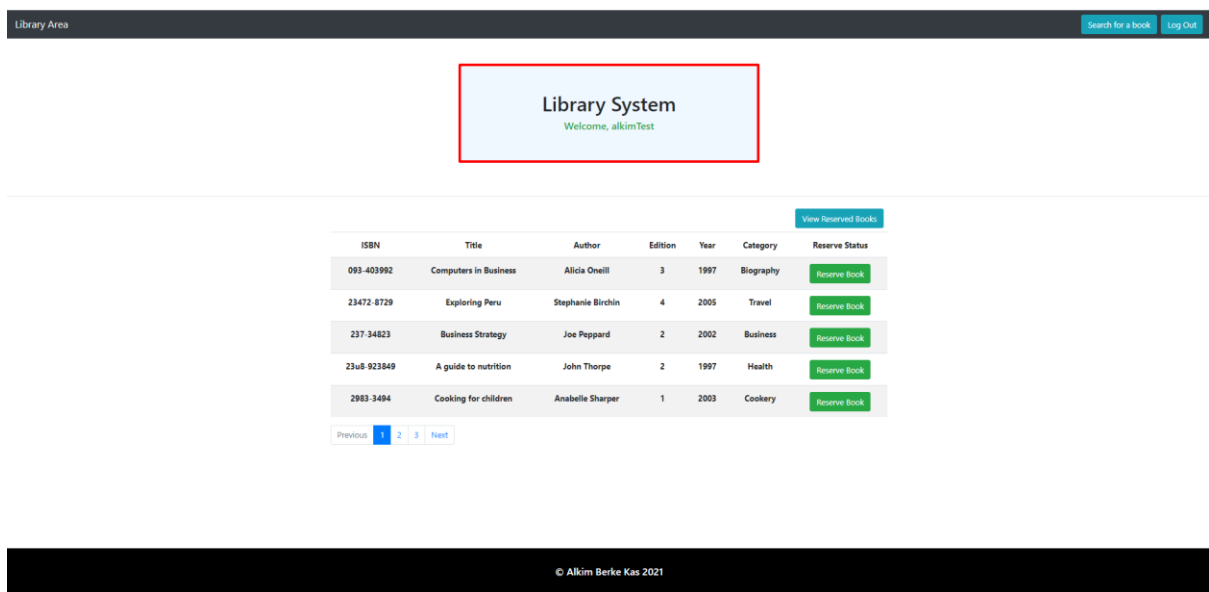
padding: 10px;

margin-left: 70%;

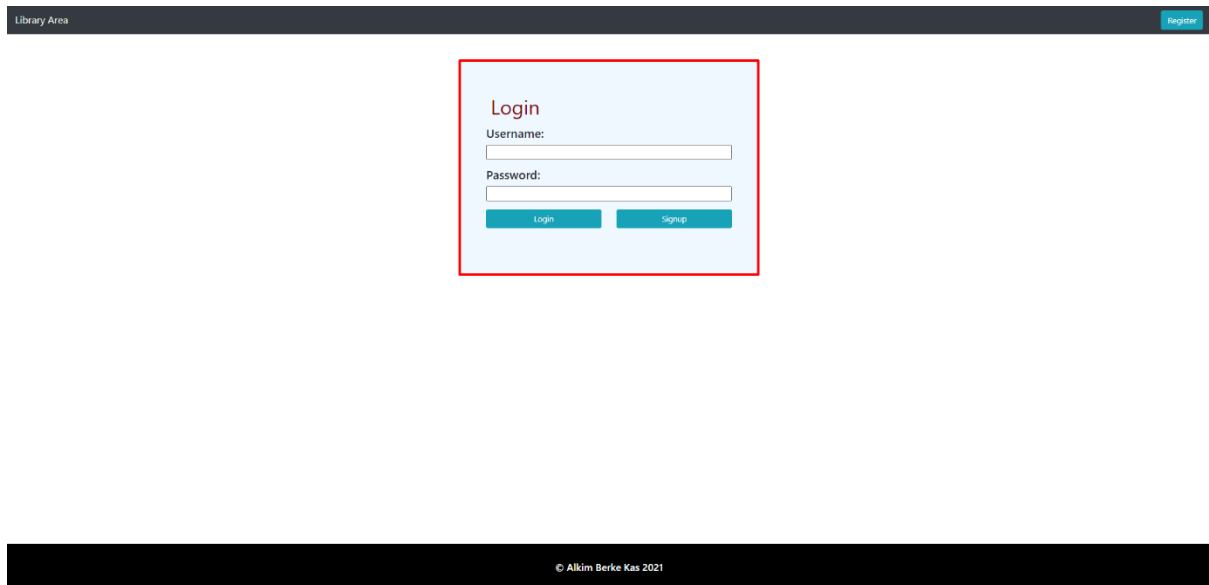
}

## Sample Screen Shots:

### Home Page:



### Login Page:



Register Page:

Library Area

Log In

Sign Up

Username:

Password:

Confirm Password:

First Name:

Last Name:

Address Line1:

Address Line2:

City:

Tel Number:

Mobile Number:

Add New

Click to Login

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Reserved-books Page:

Library Area

Search for a book

Log Out

alkimTest

Reserved Books Area

View All Books

ISBN	Title	Author	Edition	Year	Category	Reserve Status
093-403992	Computers in Business	Alicia O'Neill	3	1997	Biography	Cancel Reserve

Previous

1

Next

© Alkim Berke Kas 2021

Search Page:



Library Area

Home PageLog Out

### Search Library

Book Title and/or Author:

Search for book



---

Choose...

Get Category

View All Books

ISBN	Title	Author	Edition	Year	Category	Reserve Status
093-403992	Computers in Business	Alicia Oneill	3	1997	Biography	<input type="button" value="Reserve Book"/>
23472-8729	Exploring Peru	Stephanie Birchlin	4	2005	Travel	<input type="button" value="Reserve Book"/>
237-34823	Business Strategy	Joe Peppard	2	2002	Business	<input type="button" value="Reserve Book"/>
23u8-923849	A guide to nutrition	John Thorpe	2	1997	Health	<input type="button" value="Reserve Book"/>
2983-3494	Cooking for children	Anabelle Sharper	1	2003	Cookery	<input type="button" value="Reserve Book"/>

Previous

1

2

3

Next

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## Design Doc(Wireframes):

## Login

### Heading level 3

### Heading level 3

The user must first log in to the system before accessing the Library, therefore a login screen appears first. The user must either use their existing credentials or register with the system.

## Sign Up

<b>Username</b>	<input type="text" value="Text box"/>	
<b>Password</b>	<input type="password" value="*****"/>	<b>Confirm Password</b>
		<input type="password" value="*****"/>
<b>First Name</b>	<input type="text" value="Text box"/>	<b>Last Name</b>
		<input type="text" value="Text box"/>
<b>Adress Line1</b>	<input type="text" value="Text box"/>	
<b>Adress Line2</b>	<input type="text" value="Text box"/>	
<b>City</b>	<input type="text" value="Text box"/>	
<b>Tel Number</b>	<input type="text" value="Number box"/>	<b>Mobile number</b>
		<input type="text" value="Number Box"/>

If the user decides to register, the system prompts the user to enter the relevant information and double-checks that all information is provided. The system verifies if the username is unique, and if it isn't, it displays an error notice to the user. It also ensures that the supplied password is at least 6 characters long, and it compares the passwords to ensure that the user hasn't made any mistakes. Furthermore, the system ensures that the specified mobile phone has a minimum of 10 numeric characters.

Search book

Log out

## Library System

Welcome 'username'

Reserved Books

ISBN	Title	Author	Edition	Year	Category	Reserve Status
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Reserve</button>

Previous 1 2 3 Next

Search book

Log out

## 'user',Reserved Books

View All Books

ISBN	Title	Author	Edition	Year	Category	Reserve Status
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Cancel Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Cancel Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Cancel Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Cancel Reserve</button>
ISBN Num	Book title	Author Name	Edition	Year	Category	<button>Cancel Reserve</button>

Previous 1 2 3 Next

Home Page

Log out

Search Library

Book title and/or author name

Text box

Search

Combo Box

category

Reserved Books

ISBN	Title	Author	Edition	Year	Category	Reserve Status
ISBN Num	Book title	Author Name	Edition	Year	Category	<div>Reserve</div>
ISBN Num	Book title	Author Name	Edition	Year	Category	<div>Reserve</div>
ISBN Num	Book title	Author Name	Edition	Year	Category	<div>Reserve</div>
ISBN Num	Book title	Author Name	Edition	Year	Category	<div>Reserve</div>
ISBN Num	Book title	Author Name	Edition	Year	Category	<div>Reserve</div>

Previous

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2

3

Next

The Library Area appears after logging in. It contains a search option in the upper right corner that allows the user to search by book title and/or author, as well as a drop-down menu that displays books by category. A Logout option is located next to the search field, allowing the user to log out whenever they choose. Furthermore, the user may reserve books by clicking the Reserve Book button, and if the book is available, the system adds it to the current user's reserved books, which the user can view using the View Reserved Books button. Furthermore, the user can cancel their reserved books from the reserved books page. Finally, because the Library system only supports 5 data rows on a single page, the user can navigate the system using interactive page numbers.