# 3420 Assignment #3 - Fall 2023

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Live Loki link(s): https://loki.trentu.ca/~demiimran/3420/assn/assn3/

Credentials for a test account already in your database: Username: Cement Password: moleman Another Account: w, e

## Rubric

| Component | Grade |
|---|---|
| Dynamic Nav | /1 |
| Include Page Template Files (header, nav, etc) | /1 |
| Register (account and list) | /4 |
| Edit Account (account and list) | /5 |
| Delete Account | /2 |
| Login | /3 |
| Logout | /1 |
| Forgot Password | /3 |
| Main Page | /7 |
| Public List | /2 |
| Edit List Item | /5 |
| Delete Item | /2 |
| View List Item | /3 |
| Search | /3 |
| Meaningful Validation | /2 |
| Security Considerations(hashing, encoding & escaping, etc, page lockdown) | /3 |
| Code Quality (tidyness, validity, etc) | /3 |
| Documentation | /5 |
| Testing | /5 |
| Bonus | |
| Deductions (readability, submission guidelines, originality) | |

| Component | Grade |
|---|---|
| Total | /60 |

# Things to consider for Bonus Marks (if any)

# Wrappers (header, nav, footer)

## HTML/PHP

```
<nav>
    <ul>
        <li><a href="./index.php"><i class="fa-solid fa-house"></i></a></li>
        <li><a href="./list.php"><i class="fa-solid fa-clipboard-list"></i></a>
</li>
        <?php
        if (isset($_SESSION['username'])) {
            // Display user-specific links when logged in
            echo '<li><a href="./logout.php"><i class="fa-solid fa-right-from-
bracket"></i></a></li>';
            echo '<li><a href="./edit-account.php"><i class="fa-solid fa-user-
edit"></i></a></li>';
            echo '<li><a href="./delete-account.php"><i class="fa-solid fa-user-
times"></i></a></li>';
        } else {
            // Display login and register links when logged out
            echo '<li><a href="./login.php"><i class="fa-solid fa-right-to-
bracket"></i></a></li>';
            echo '<li><a href="./register.php"><i class="fa-solid fa-user-plus">
</i></a></li>';
        }
        ?>
        <li><a href="./search.php"><i class="fa-solid fa-magnifying-glass"></i>
</a></li>
    </ul>
</nav>

<footer>&copy; 2023 - Farzad Imran & Akash Bahl</footer>
```
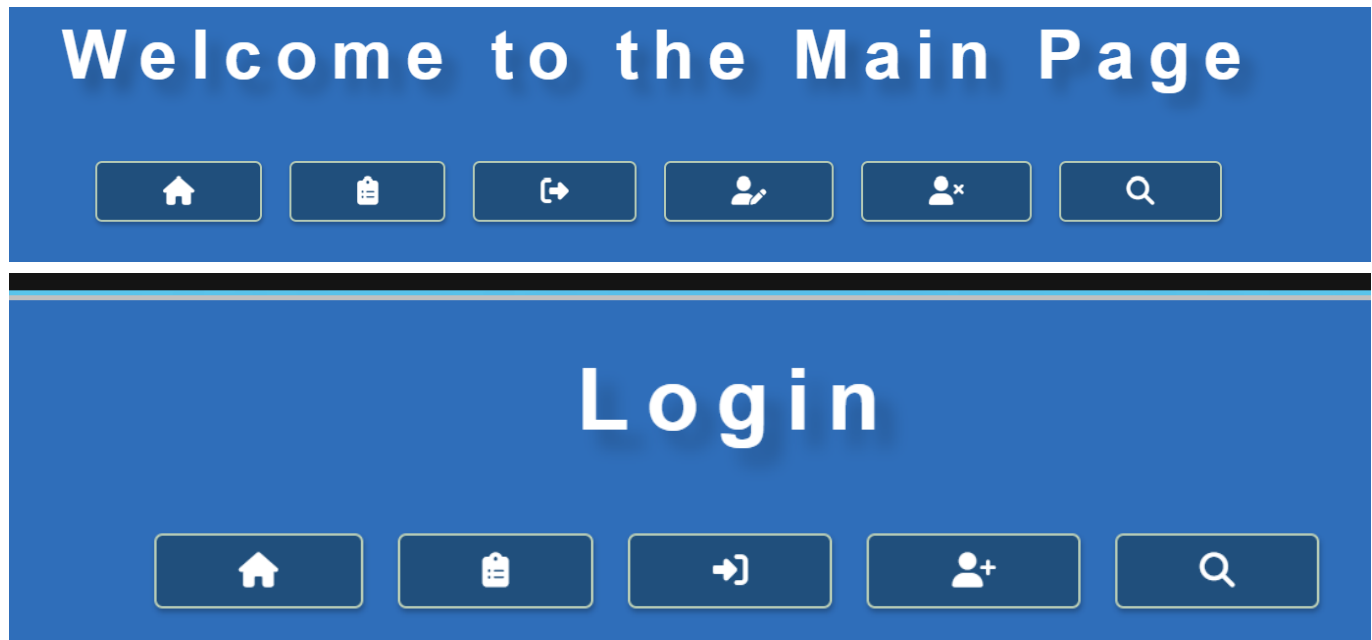
Testing (include one test for each dynamic version of your menu)

# Welcome to the Main Page

## Login

## Register

### HTML/PHP

```php
<?php

// declare error array
$errors = array();


// delcare defaults
$name              = $_POST['name'] ?? "";
$gender            = $_POST['gender'] ?? "";
$username          = $_POST['username'] ?? "";
$email             = $_POST['email'] ?? "";
$password          = $_POST['password'] ?? "";
$confirmPassword   = $_POST['confirm_password'] ?? "";
$title             = $_POST['title'] ?? "";
$description       = $_POST['description'] ?? "";
$public            = $_POST['public_view'] ?? 'Public';



//Include library and connect to DB
require './includes/library.php';

$pdo = connectDB();

//validate the form
if (isset($_POST['submit'])) {
  // Sanitize all text inputs
  $name              = htmlspecialchars($name);
  $gender            = htmlspecialchars($gender);
  $username          = htmlspecialchars($username);
```

```php
    $email             = htmlspecialchars($email);
    $password          = htmlspecialchars($password);
    $confirmPassword   = htmlspecialchars($confirmPassword);
    $title             = htmlspecialchars($title);
    $description        = htmlspecialchars($description);

    //basic form validation
    if (strlen($name) == 0) {
      $errors['name'] = true;
    }
    if (strlen($gender) == 0) {
      $errors['gender'] = true;
    }
    if (strlen($username) == 0) {
      $errors['username'] = true;
    }else {
      // Check if username is unique
      $query ="SELECT id FROM 3420_assg_users WHERE username = ?";
      $stmt = $pdo->prepare($query);
      $stmt->execute([$username]);

      if ($stmt->rowCount() > 0) {
        $errors['username'] = null;
        $errors['unique'] = true;
      }
    }
    if (filter_var($email, FILTER_VALIDATE_EMAIL) === false) {
      $errors['email'] = true;
    }
    if (strlen($password) == 0) {
      $errors['password'] = true;
    }
     // Validate password match
     if ($password !== $confirmPassword) {
      $errors['match'] = true;
    }
    if (strlen($title) == 0) {
      $errors['title'] = true;
    }
    if (strlen($description) == 0) {
      $errors['description'] = true;
    }


    if (count($errors) === 0) {

      // Hash the password
      $hashedPassword = password_hash($password, PASSWORD_DEFAULT);

      // Insert user data into the database
      $userquery = "INSERT INTO 3420_assg_users (`name`, `gender`, `username`,
`email`, `password`) VALUES (?, ?, ?, ?, ?)";
      $users_stmt = $pdo->prepare($userquery);
      $users_stmt->execute([$name, $gender, $username, $email, $hashedPassword]);
```

```php
    $get_uid = "SELECT `id` FROM `3420_assg_users` WHERE
`3420_assg_users`.`username` = ?";
    $uid = $pdo->prepare($get_uid);
    $uid->execute([$username]);
    $result = $uid->fetch(PDO::FETCH_ASSOC);
    $userid = $result['id'];
    $listquery = "INSERT INTO 3420_assg_lists (`user_id`, `title`, `description`,
`publicity`) VALUES (?, ?, ?, ?)";
    $list_stmt = $pdo->prepare($listquery);
    $list_stmt->execute([$userid, $title, $description, $public]);

    // Redirect to login page
    header("Location: login.php");
    exit();
  }
}
?>

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <script src="https://kit.fontawesome.com/05ad49203b.js" crossorigin="anonymous">
</script>
  <title>Register</title>
  <!-- include javascript and css-->
  <link rel="stylesheet" href="styles/main.css">
  <script defer src="js/scripts.js"></script>
</head>

<body>
  <header>
    <!--This will be the main heading of the page so users know what page they're
on-->
    <h1>Create An Account</h1>

    <?php include './includes/nav.php' ?>
  </header>
  <main>
    <form method="post" action="">
      <fieldset>
        <legend>Account Information</legend>
        <div>
          <label for="name">Name:</label>
          <input type="text" id="name" name="name" value="<?= $name ?>">
          <span class="error <?= !isset($errors['name']) ? 'hidden' : '' ?
>">Please Enter a Name.</span>
        </div>
        <div>
          <label for="gender">Gender</label>
          <select name="gender" id="gender">
```

```php
            <option value="">Please Choose One</option>
            <option value="male"<?php if($gender == "male") echo
"selected='selected'"; ?>>Male</option>
            <option value="female"<?php if($gender == "female") echo
"selected='selected'"; ?>>Female</option>
            <option value="gnc"<?php if($gender == "gnc") echo
"selected='selected'"; ?>>Gender Queer/Non-Conforming</option>
            <option value="notsay"<?php if($gender == "notsayy") echo
"selected='selected'"; ?>>Prefer not to say</option>
          </select>
          <span class="error <?= !isset($errors['gender']) ? 'hidden' : '' ?
>">Please Choose a Gender.</span>
        </div>

        <div class="container">
          <label for="username">Username:</label>
          <input type="text" id="username" name="username" value="<?= $username ?
>" >
          <span class="error <?= !isset($errors['username']) ? 'hidden' : '' ?
>">Please Enter a Username.</span>
          <span class="error <?= !isset($errors['unique']) ? 'hidden' : '' ?
>">Invalid Username!</span>
        </div>
        <div>
          <label for="email">Email:</label>
          <input type="email" id="email" name="email" value="<?= $email ?>" >
          <span class="error <?= !isset($errors['email']) ? 'hidden' : '' ?
>">Enter a Valid Email.</span>
        </div>

        <div>
          <label for="password">Password:</label>
          <input type="password" id="password" name="password" value="<?=
$password ?>" >
          <span class="error <?= !isset($errors['password']) ? 'hidden' : '' ?
>">Please Enter a Password.</span>
        </div>
        <div>
          <label for="confirm_password">Confirm Password:</label>
          <input type="password" id="confirm_password" name="confirm_password"
value="<?= $confirmPassword ?>">
          <span class="error <?= !isset($errors['match']) ? 'hidden' : '' ?
>">Passwords Do Not Match.</span>
        </div>
      </fieldset>
      <fieldset>
        <legend>Create Your First List</legend>
        <div>
          <label for="title">Title:</label>
          <input type="text" id="title" name="title" value="<?= $title ?>">
          <span class="error <?= !isset($errors['title']) ? 'hidden' : '' ?
>">Please Choose a List Title.</span>
        </div>
        <div>
```

```
            <label for="description">Description:</label>
            <textarea id="description" name="description" ><?= $description ?>
</textarea>
            <span class="error <?= !isset($errors['description']) ? 'hidden' : '' ?
>">Please Describe Your List.</span>
        </div>
        <div>
            <label for="public_view">Make List Public?:</label>
            <input type="hidden" id="public_view" name="public_view"
value="Private">
            <input type="checkbox" id="public_view" name="public_view"
value="Public" checked>
        </div>
    </fieldset>
    <button id="submit" name="submit">Register</button>
    </form>
  </main>
  <?php include './includes/footer.php' ?>
</body>

</html>
```

Testing



## Edit Account

HTML/PHP

```php
<?php
session_start();

require './includes/library.php';

$pdo = connectDB();

// Check if the user is logged in
if (!isset($_SESSION['user_id'])) {
    header('Location: login.php'); // Redirect to login page if not logged in
    exit();
}

$user_id = $_SESSION['user_id'];

// Fetch user data
$stmtUser = $pdo->prepare("SELECT * FROM 3420_assg_users WHERE id = ?");
$stmtUser->execute([$user_id]);
$user = $stmtUser->fetch();

// Initialize variables with default values or retrieve them from $user
    $name = isset($_POST['name']) ? $_POST['name'] : $user['name'];
    $gender = isset($_POST['gender']) ? $_POST['gender'] : $user['gender'];
    $username = isset($_POST['username']) ? $_POST['username'] :
$user['username'];
    $email = isset($_POST['email']) ? $_POST['email'] : $user['email'];
    $password = isset($_POST['password']) ? $_POST['password'] : '';
    $confirm_password = isset($_POST['confirm_password']) ?
$_POST['confirm_password'] : '';

// Handle user information update
if ($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_POST['updateUser'])) {

    // Initialize variables with default values or retrieve them from $user
    $name = isset($_POST['name']) ? $_POST['name'] : $user['name'];
    $gender = isset($_POST['gender']) ? $_POST['gender'] : $user['gender'];
    $username = isset($_POST['username']) ? $_POST['username'] :
$user['username'];
    $email = isset($_POST['email']) ? $_POST['email'] : $user['email'];
    $password = isset($_POST['password']) ? $_POST['password'] : '';
    $confirm_password = isset($_POST['confirm_password']) ?
$_POST['confirm_password'] : '';

    // Sanitize all text inputs
    $name             = htmlspecialchars($name);
    $gender           = htmlspecialchars($gender);
    $username         = htmlspecialchars($username);
    $email            = htmlspecialchars($email);
    $password         = htmlspecialchars($password);
    $confirm_password  = htmlspecialchars($confirm_password);


    // Simple validation
```

```php
        if (empty($name) || empty($gender) || empty($username) || empty($email)) {
            $userUpdateError = 'All fields are required for user information update.';
        } else {
            // Update user information in the database
            $stmtUserUpdate = $pdo->prepare("UPDATE 3420_assg_users SET name = ?,
gender = ?, username = ?, email = ? WHERE id = ?");
            $stmtUserUpdate->execute([$name, $gender, $username, $email, $user_id]);

            // Update password if provided
            if (!empty($password)) {
                // Validate password
                if ($password !== $confirm_password) {
                    $userUpdateError = 'Password and confirm password do not match.';
                } else {
                    // Update password in the database
                    $hashedPassword = password_hash($password, PASSWORD_DEFAULT);
                    $stmtPasswordUpdate = $pdo->prepare("UPDATE 3420_assg_users SET
password = ? WHERE id = ?");
                    $stmtPasswordUpdate->execute([$hashedPassword, $user_id]);
                }
            }

            $userUpdateSuccess = 'User information updated successfully.';
        }
}


?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/05ad49203b.js"
crossorigin="anonymous"></script>
    <title>Edit Account</title>
    <!-- include javascript and css-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
</head>
<body>
    <header>
        <!--This will be the main heading of the page so users know what page
they're on-->
        <h1>Edit Your Account</h1>

        <?php include './includes/nav.php' ?>
    </header>
    <main>
        <!-- User Information Update Form -->
        <form action="edit-account.php" method="post">
            <fieldset>
                <legend>Update User Information</legend>
```

```php
                    <?php
                    if (isset($userUpdateError)) {
                        echo '<div class="error">' . $userUpdateError . '</div>';
                    } elseif (isset($userUpdateSuccess)) {
                        echo '<div class="success">' . $userUpdateSuccess . '</div>';
                    }
                    ?>

                    <div>
                        <label for="name">Name:</label>
                        <input type="text" id="name" name="name" value="<?php echo
htmlspecialchars($name); ?>" required>
                    </div>
                    <div>
                        <label for="gender">Gender</label>
                        <select name="gender" id="gender" required>
                            <option value="male" <?php echo ($gender === 'male') ?
'selected' : ''; ?>>Male</option>
                            <option value="female" <?php echo ($gender === 'female') ?
'selected' : ''; ?>>Female</option>
                            <option value="gnc" <?php echo ($gender === 'gnc') ?
'selected' : ''; ?>>Gender Queer/Non-Conforming</option>
                            <option value="notsay" <?php echo ($gender === 'notsay') ?
'selected' : ''; ?>>Prefer not to say</option>
                        </select>
                    </div>
                    <div class="container">
                        <label for="username">Username:</label>
                        <input type="text" id="username" name="username" value="<?php
echo $username; ?>" required>
                    </div>
                    <div>
                        <label for="email">Email:</label>
                        <input type="email" id="email" name="email" value="<?php echo
$email; ?>" required>
                    </div>

                    <div>
                        <label for="password">Password:</label>
                        <input type="password" id="password" name="password">
                    </div>
                    <div>
                        <label for="confirm_password">Confirm Password:</label>
                        <input type="password" id="confirm_password"
name="confirm_password">
                    </div>
                    <span>Leave blank to keep the current password.</span>
                </fieldset>

                <input type="submit" name="updateUser" value="Update User
Information">
            </form>
        </main>
```

```php
        <?php include './includes/footer.php' ?>
</body>
</html>
```

Testing

# Delete Account

## HTML/PHP

```php
<?php
require './includes/library.php';

session_start();

// Check if the user is logged in
if (!isset($_SESSION['username'])) {
    header("Location: login.php");
    exit();
}

$pdo = connectDB();

// Fetch user ID from the database based on the current session
$username = $_SESSION['username'];
$stmt = $pdo->prepare("SELECT id FROM 3420_assg_users WHERE username = ?");
$stmt->execute([$username]);
$userID = $stmt->fetchColumn();
// Check if the user has confirmed the account deletion
if (isset($_POST['confirmDelete'])) {
    // Delete all data associated with the user
    $stmtDeleteLists = $pdo->prepare("DELETE FROM 3420_assg_lists WHERE user_id =
?");
    $stmtDeleteLists->execute([$userID]);

    $stmtDeleteUser = $pdo->prepare("DELETE FROM 3420_assg_users WHERE username =
?");
    $stmtDeleteUser->execute([$username]);

// Destroy the session
session_destroy();

// Redirect to login
header("Location: login.php");
exit();
}
?>

<!DOCTYPE html>
<html lang="en">
```

```html
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/05ad49203b.js"
crossorigin="anonymous"></script>
    <title>Delete Account</title>
    <!-- include CSS-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
</head>
<body>
    <header>
        <!--This will be the main heading of the page so users know what page
they're on-->
        <h1>Delete Account</h1>
        <?php include './includes/nav.php' ?>
    </header>
    <main>
        <form action="delete-account.php" method="post">
            <fieldset>
                <legend>Confirmation</legend>
                <p>Are you sure you want to delete your account? This action
cannot be undone.</p>
                <div>
                    <button type="submit" name="confirmDelete" class="big-
button">Yes, I'm sure. Delete my account</button>
                </div>
            </fieldset>
        </form>
    </main>
    <?php include './includes/footer.php' ?>
</body>
</html>
```
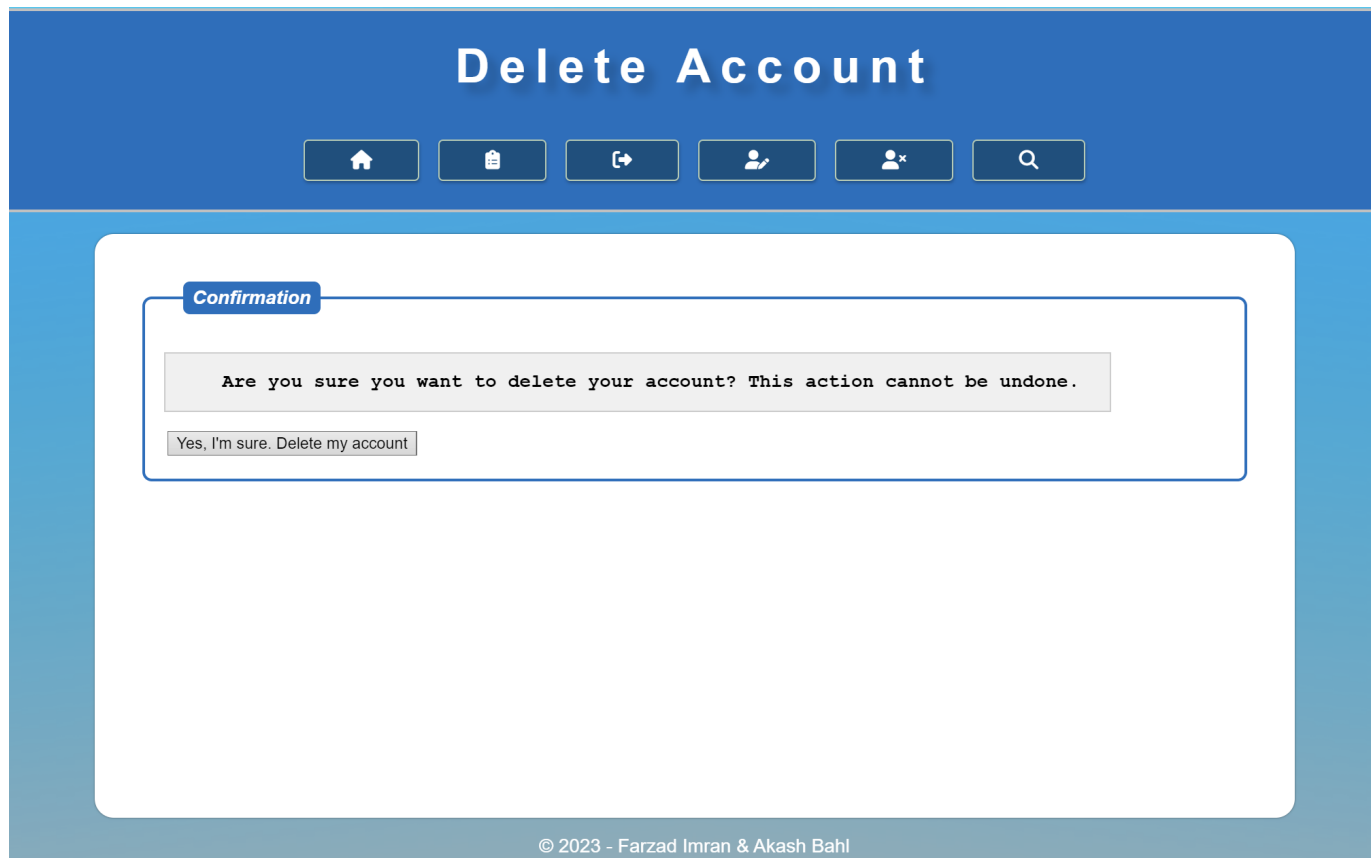
## Testing

# Delete Account

**Confirmation**

Are you sure you want to delete your account? This action cannot be undone.

Yes, I'm sure. Delete my account

## Login

### HTML/PHP

```php
<!--PHP section-->
<?php
require './includes/library.php';
session_start(); // Start the session

// Check if the user is already logged in, if so, redirect to the Main Page
if (isset($_SESSION['username'])) {
    header("Location: index.php");
    exit();
}

// Check if a cookie exists, if yes, pre-populate the username box
if (isset($_COOKIE['remember_me'])) {
    $prepopulatedUsername = $_COOKIE['remember_me'];
} else {
    $prepopulatedUsername = '';
}

// Check if the form is submitted
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $pdo = connectDB();
  $username = $_POST['username'];
  $password = $_POST['password'];

    // Sanitize all text inputs
```

```php
    $username= htmlspecialchars($username);
    $password= htmlspecialchars($password);

    $rememberMe = isset($_POST['remember_me']) ? $_POST['remember_me'] : false;

    // Fetch user data from the database
    $stmt = $pdo->prepare("SELECT id, password FROM 3420_assg_users WHERE username =
?");
    $stmt->execute([$username]);
    $userData = $stmt->fetch();

    // Verify password
    if ($userData && password_verify($password, $userData['password'])) {
        // Password is correct, start a new session
        session_start();

        // Store user data in session variables
        $_SESSION['username'] = $username;
        $_SESSION['user_id'] = $userData['id'];

        // Create a cookie if "remember me" is checked
        if ($rememberMe) {
            setcookie('remember_me', $username, time() + (86400 * 30), "/"); // 30
days
        } else {
            // If "remember me" is not checked, clear the cookie
            setcookie('remember_me', '', time() - 3600, "/");
        }

        // Redirect to the Main Page
        header("Location: index.php");
        exit();
    } else {
        $error_message = "Invalid username or password";
    }
}
?>

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script
      src="https://kit.fontawesome.com/05ad49203b.js"
      crossorigin="anonymous"
    ></script>
    <title>Login</title>
    <!-- include javascript and css-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
  </head>
  <body>
    <header>
```

```
        <!--This will be the main heading of the page so users know what page
    they're on-->
        <h1>Login</h1>

        <?php include './includes/nav.php' ?>
    </header>
    <main>
    <?php
        if (isset($error_message)) {
            echo "<p>$error_message</p>";
        }
        ?>
        No account? You can <a href="register.php">sign up now!</a>
        <form action="login.php" method="post" class="login">
          <fieldset>
            <legend>Login Information</legend>
            <div>
              <label for="username">Username:</label>
              <input
                type="text"
                id="username"
                name="username"
                maxlength="32"
                placeholder="ex. JohnDoe123"
                required
              >
            </div>
            <div>
              <label for="password">Password:</label>
              <input type="password" id="password" name="password" required>
            </div>

            <div>
              <label for="remember_me">Remember me:</label>
              <input type="checkbox" id="remember_me" name="remember_me">
            </div>
          </fieldset>
          <div>
            <a href="forgot.php">Forgot Password?</a>
          </div>
          <input type="submit" value="Login">
        </form>
    </main>
    <?php include './includes/footer.php' ?>
  </body>
</html>
```

# Testing

## Logout

### HTML/PHP

```php
<?php
// Start or resume the current session
session_start();

// Destroy the session
session_destroy();
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/05ad49203b.js"
crossorigin="anonymous"></script>
    <title>Delete Account</title>
    <!-- include CSS-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
</head>
<body>

  <header>
```

```
        <!-- This will be the main heading of the page so users know what page they're
    on -->
        <h1>You Have Successfully Logged Out</h1>
        <?php include './includes/nav.php'; ?>
    </header>

    <main>
        <p>Thank you for using our site. You have successfully logged out!</p>
    </main>

    <?php include './includes/footer.php'; ?>
</body>
</html>
```
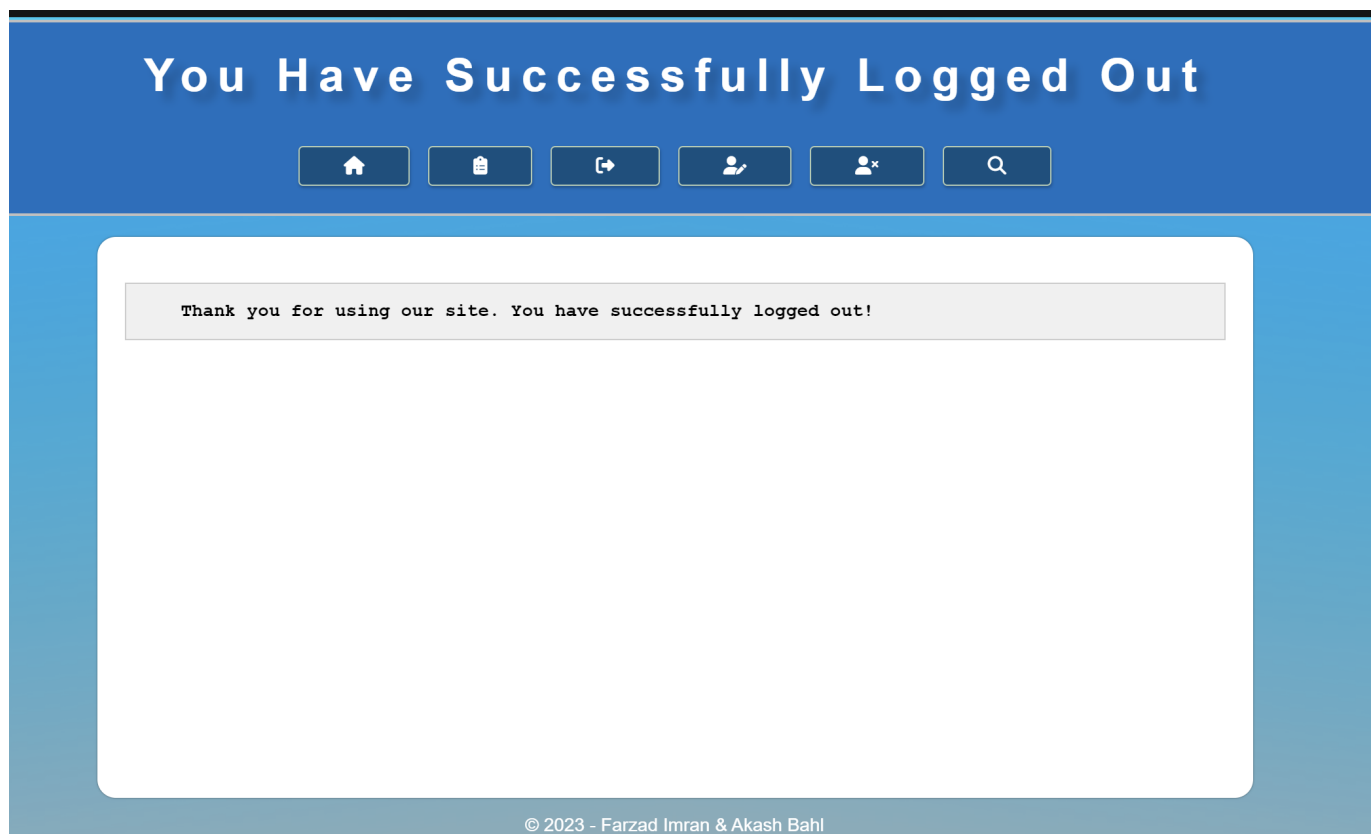
## Testing



## Forgot Password (collect email, send mail)

### HTML/PHP

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script
```

```html
          src="https://kit.fontawesome.com/05ad49203b.js"
          crossorigin="anonymous"
        ></script>
        <title>Forgot Password</title>
        <!-- include javascript and css-->
        <link rel="stylesheet" href="styles/main.css">
        <script defer src="js/scripts.js"></script>
      </head>
      <body>
        <header>
          <!--This will be the main heading of the page so users know what page
they're on-->
          <h1>Forgot Password</h1>

          <?php include './includes/nav.php' ?>
        </header>
        <main>
          <form action="process-forgot-password.php" method="post">
            <div>
              <label for="usernameOrEmail">Username or Email:</label>
              <input
                type="text"
                id="usernameOrEmail"
                name="usernameOrEmail"
                value="<?php echo isset($_POST['usernameOrEmail']) ?
htmlspecialchars($_POST['usernameOrEmail']) : ''; ?>"
                required
              >
            </div>
            <div>
              <label for="newPassword">New Password:</label>
              <input type="password" id="newPassword" name="newPassword" required>
            </div>
            <input type="submit" value="Reset Password">
          </form>
        </main>
        <?php include './includes/footer.php' ?>
      </body>
    </html>
```

## Forgot Password (use url value to change password)

### HTML/PHP

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```html
    <script
      src="https://kit.fontawesome.com/05ad49203b.js"
      crossorigin="anonymous"
    ></script>
    <title>Forgot Password</title>
    <!-- include javascript and css-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
  </head>
  <body>
    <header>
      <!--This will be the main heading of the page so users know what page
they're on-->
      <h1>Forgot Password</h1>

      <?php include './includes/nav.php' ?>
    </header>
    <main>
      <form action="process-forgot-password.php" method="post">
        <div>
          <label for="usernameOrEmail">Username or Email:</label>
          <input
            type="text"
            id="usernameOrEmail"
            name="usernameOrEmail"
            value="<?php echo isset($_POST['usernameOrEmail']) ?
htmlspecialchars($_POST['usernameOrEmail']) : ''; ?>"
            required
          >
        </div>
        <div>
          <label for="newPassword">New Password:</label>
          <input type="password" id="newPassword" name="newPassword" required>
        </div>
        <input type="submit" value="Reset Password">
      </form>
    </main>
    <?php include './includes/footer.php' ?>
  </body>
</html>
```

Testing

# Forgot Password

🏠    📋    ↪    👤+    🔍

Username or Email:

New Password:

RESET PASSWORD

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## Main Page

### HTML/PHP

```php
<?php
session_start(); // Start the session

// Check if the user is logged in
if (!isset($_SESSION['user_id'])) {
    // Redirect to the login page if not logged in
    header("Location: login.php");
    exit();
}
$userid = $_SESSION['user_id'];
// declare error array
$errors = array();


// delcare defaults
$title          = $_POST['title'] ?? "";
$description    = $_POST['description'] ?? "";
$public         = $_POST['public_view'] ?? 'Public';


//Include library and connect to DB
```

```php
require './includes/library.php';

$pdo = connectDB();
if (isset($_POST['submit'])) {
  if (strlen($title) == 0) {
    $errors['title'] = true;
  }
  if (strlen($description) == 0) {
    $errors['description'] = true;
  }

  if (count($errors) === 0) {
    // Sanitize all text inputs
    $title= htmlspecialchars($title);
    $description= htmlspecialchars($description);


    $listquery = "INSERT INTO 3420_assg_lists (`user_id`, `title`, `description`,
`publicity`) VALUES (?, ?, ?, ?)";
    $list_stmt = $pdo->prepare($listquery);
    $list_stmt->execute([$userid, $title, $description, $public]);

    // refresh page
    header("Location: index.php");
    exit();
  }
}
?>

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <script src="https://kit.fontawesome.com/05ad49203b.js" crossorigin="anonymous">
</script>
  <title>Index</title>
  <!-- include javascript and css-->
  <link rel="stylesheet" href="styles/main.css">
  <script defer src="js/scripts.js"></script>
</head>

<body>
  <header>
    <!--This will be the main heading of the page so users know what page they're
on-->
    <h1>Welcome to the Main Page</h1>

    <?php include './includes/nav.php' ?>
  </header>

  <main>
    <h2>My Lists</h2>
```

```php
    <ul>
    <?php
            // Fetch and display user's lists from the database
            $varpub ="Public";
            $varpriv ="Private";
            $query = "SELECT list_id, user_id, title FROM 3420_assg_lists WHERE
publicity = ? OR user_id = ? AND publicity = ?";
            $stmt = $pdo->prepare($query);
            $stmt->execute([$varpub, $userid, $varpriv]);
            $user_lists = $stmt->fetchAll();

            foreach ($user_lists as $list) :
            ?>
        <li><a href="view-item.php?id=<?php echo $list["list_id"]; ?>"><?=
$list["title"] ?></a>
        <?php if ($list["user_id"] == $userid) { ?>
          <a href="edit-item.php?id=<?php echo $list["list_id"]; ?>"><i class="fa-
solid fa-pen-to-square"></i></a>
          <a href="delete-item.php?id=<?php echo $list["list_id"]; ?>"><i
class="fa-solid fa-trash"></i></a>
        </button>
        <?php } ?>
          <?php endforeach; ?>
        </li>
    </ul>
    <h2>Add New Entry:</h2>
    <form method="post" action="">
    <div>
            <label for="title">Title:</label>
            <input type="text" id="title" name="title" value="<?= $title ?>">
            <span class="error <?= !isset($errors['title']) ? 'hidden' : '' ?
>">Please Choose a List Title.</span>
        </div>
        <div>
          <label for="description">Description:</label>
          <textarea id="description" name="description" ><?= $description ?>
</textarea>
          <span class="error <?= !isset($errors['description']) ? 'hidden' : '' ?
>">Please Describe Your List.</span>
        </div>
        <div>
          <label for="public_view">Make List Public?:</label>
          <input type="hidden" id="public_view" name="public_view"
value="Private">
          <input type="checkbox" id="public_view" name="public_view"
value="Public" checked>
        </div>
      </fieldset>
      <button id="submit" name="submit">Make List</button>
    </form>
  </main>
  <?php include './includes/footer.php' ?>
</body>
```
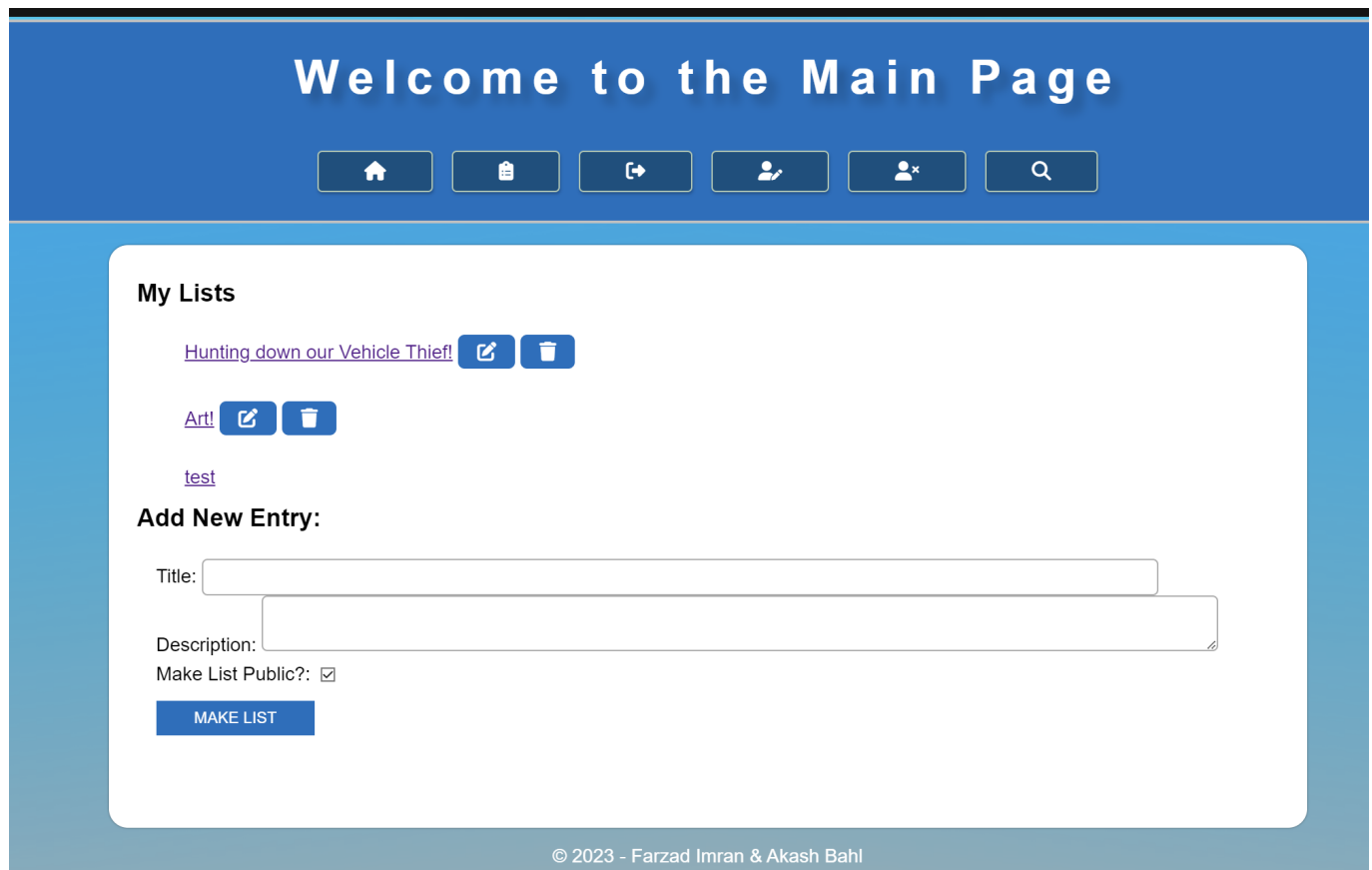
```
</html>
```

Testing



## Public View of List

### HTML/PHP

```php
<?php
//Include library and connect to DB
require './includes/library.php';

$pdo = connectDB();
?>

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <script src="https://kit.fontawesome.com/05ad49203b.js" crossorigin="anonymous">
</script>
  <title>Index</title>
  <!-- include javascript and css-->
  <link rel="stylesheet" href="styles/main.css">
```

```
    <script defer src="js/scripts.js"></script>
</head>

<body>
  <header>
    <!--This will be the main heading of the page so users know what page they're
on-->
    <h1>Public View</h1>

    <?php include './includes/nav.php' ?>
  </header>

  <main>
    <h2>User Lists</h2>
    <ul>
    <?php
            // Fetch and display user's lists from the database
            $varpub ="Public";
            $query = "SELECT list_id, title FROM 3420_assg_lists WHERE publicity =
?";
            $stmt = $pdo->prepare($query);
            $stmt->execute([$varpub]);
            $user_lists = $stmt->fetchAll();

            foreach ($user_lists as $list) :
            ?>
      <li><a href="view-item.php?id=<?php echo $list["list_id"]; ?>"><?=
$list["title"] ?></a>
        <?php endforeach; ?>
      </li>
    </ul>
  </main>
  <?php include './includes/footer.php' ?>
</body>

</html>
```
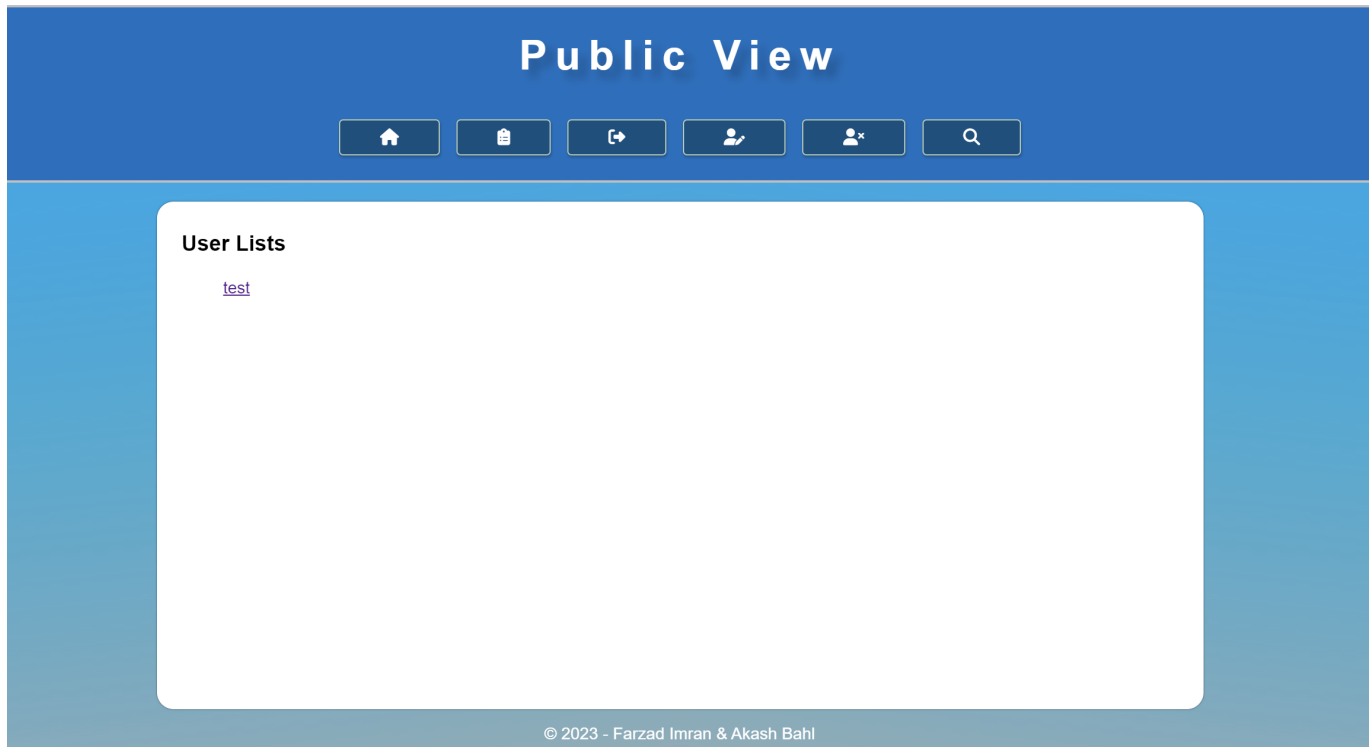
Testing

# Public View

User Lists

test

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## Edit Item

### HTML/PHP

```php
<?php
session_start(); // Start the session

// Check if the user is logged in
if (!isset($_SESSION['user_id'])) {
    // Redirect to the login page if not logged in
    header("Location: login.php");
    exit();
}
if(isset($_GET['id'])){
  $list_id = $_GET['id'];}

$userid = $_SESSION['user_id'];
// declare error array
$errors = array();


// delcare defaults
$title            = $_POST['title'] ?? "";
$description       = $_POST['description'] ?? "";
$status           = $_POST['status'] ?? "";
$details          = $_POST['details'] ?? "";
$proof            = $_FILES['proof'] ?? null;
$rating           = $_POST['rating'] ?? "50";
$comp_date        = $_POST['completionDate'] ?? "";
$public           = $_POST['public_view'] ?? 'Public';
$oldfile          = false;
```

```php
//Include library and connect to DB
require './includes/library.php';

$pdo = connectDB();
$check = "SELECT user_id FROM 3420_assg_lists WHERE list_id = ?";
$checkownership = $pdo->prepare($check);
$checkownership->execute([$list_id]);
$result = $checkownership->fetch(PDO::FETCH_ASSOC);
if ($result['user_id'] != $userid){
  header("Location: index.php");
}
$getdata = "SELECT * FROM 3420_assg_lists WHERE list_id = ?";
$userdata= $pdo->prepare($getdata);
$userdata->execute([$list_id]);
$formdata = $userdata->fetch(PDO::FETCH_ASSOC);

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

    // Sanitize all text inputs
    $title= htmlspecialchars($title);
    $description= htmlspecialchars($description);
    $details= htmlspecialchars($details);

 if (strlen($title) == 0) {
    $errors['title'] = true;
  }
  if (strlen($description) == 0) {
    $errors['description'] = true;
  }
  $valid_status = ["o", "p", "c"];
  if (!in_array($status, $valid_status)) {
    $errors['status'] = true;
  }
  if (strlen($details) === 0) {
    $errors['details'] = true;
  }
  if (isset($formdata['image_url']) && !isset($_FILES["proof"])){
    $oldfile = true;
  }
  else{
    $allowed_image_extension = array(
        "png",
        "jpg",
        "jpeg"
    );

    //Set Variables for File Upload
    $file_extension = pathinfo($_FILES["proof"]["name"], PATHINFO_EXTENSION);
    $maxsize    = 1500000;
    $path = WEBROOT."www_data/";
    $fileroot = "ListImage";
```

```php
  if (!isset($formdata['image_url'])) //Removes the file check if there is already
one in the directory!
  {

    // Validate file input to check if is not empty
    if (!file_exists($_FILES["proof"]["tmp_name"])) {
        $errors['proof'] = true;
    }    // Validate file input to check if is with valid extension
    else if (!in_array($file_extension, $allowed_image_extension)) {
        $errors['prooftype'] = true;
    }    // Validate image file size
    else if (($_FILES["proof"]["size"] >= $maxsize || ($_FILES["proof"]["size"] ==
0))) {
        $errors['proofsize'] = true;
    }
    elseif(is_uploaded_file($_FILES["proof"]['tmp_name'])){
        //get the original file name for extension, where 'fileToProcess' was
the name of the
        //file upload form element
        $filename = $_FILES["proof"]['name'];
        $exts = explode(".", $filename); // split based on period
        $ext = $exts[count($exts)-1]; //take the last split (contents after last
period)
        $filename = $fileroot.$list_id.".".$ext;  //build new filename
        $newname = $path.$filename; //add path the file name

        // delete previous file in folder (as ones with different extensions
would not be replaced)
        if(isset($formdata['image_url'])){
          $del_file = $path.$formdata['image_url'];
          array_map( "unlink", glob($del_file));
          }
        move_uploaded_file($_FILES['proof']['tmp_name'], $newname);
      }

  }
  else {
      //get the original file name for extension, where 'fileToProcess' was the
name of the
      //file upload form element
      $filename = $_FILES["proof"]['name'];

      // Get the old extension
      $oldexts = explode(".", $formdata['image_url']);
      $oldext = $oldexts[count($oldexts)-1];

      $exts = explode(".", $filename); // split based on period
      $ext = $exts[count($exts)-1]; //take the last split (contents after last
period)

      if (!empty($ext)){
      $filename = $fileroot.$list_id.".".$ext;  //build new filename
      $newname = $path.$filename; //add path to the file name
```

```php
        echo "$filename";}
        else {
          $filename = $fileroot.$list_id.".".$oldext;   //build new filename
        $newname = $path.$filename; //add path to the file name
        echo "$filename";
        }

        if(is_uploaded_file($_FILES["proof"]['tmp_name'])){
        // delete previous file in folder (as ones with different extensions would
not be replaced)
          $del_file = $path.$formdata['image_url'];
          array_map( "unlink", glob($del_file));
          move_uploaded_file($_FILES['proof']['tmp_name'], $newname);
        }
    }
}
    // If no errors, update database
    if (count($errors) === 0) {

    // Edit the list in Database`:
    if ($oldfile != true){
    if(empty($comp_date)){$comp_date = "0000:00:00";} // if statement to set a
default for database
      $query = "UPDATE `3420_assg_lists` SET `title` = ?, `description` = ?,
`status`= ?, `details`= ?, `image_url`= ?, `rating` = ?, `completion_date` = ?,
`publicity` = ?
      WHERE `list_id` = ? AND `user_id` = ?";
      $edit_stmt = $pdo->prepare($query);
      $edit_stmt->execute([$title, $description, $status, $details, $filename,
$rating, $comp_date, $public, $list_id, $userid]);}
      else{
        $query = "UPDATE `3420_assg_lists` SET `title` = ?, `description` = ?,
`status`= ?, `details`= ?, `rating` = ?, `completion_date` = ?, `publicity` = ?
      WHERE `list_id` = ? AND `user_id` = ?";
      $edit_stmt = $pdo->prepare($query);
      $edit_stmt->execute([$title, $description, $status, $details, $rating,
$comp_date, $public, $list_id, $userid]);
    }

  // Redirect:
  header("Location: edited.php?id=<?php echo $list_id; ?>");
   exit;
    }
  }

?>

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script
      src="https://kit.fontawesome.com/05ad49203b.js"
```

```
        crossorigin="anonymous"
    ></script>
    <title>Edit Item</title>
    <!-- include javascript and css-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
  </head>
  <body>
    <header>
      <!--This will be the main heading of the page so users know what page
they're on-->
      <h1>Edit Bucket List Items</h1>

      <?php include './includes/nav.php' ?>
    </header>
    <form id="edit-form" method="post" action="" enctype="multipart/form-data">
      <fieldset>
        <legend>List Info</legend>
        <div>
          <label for="title">Title:</label>
          <input type="text" id="title" name="title" value="<?php echo
$formdata["title"]; ?>">
          <span class="error <?= !isset($errors['title']) ? 'hidden' : '' ?>">>
</span>
        </div>
        <div>
        <label for="description">Description:</label>
          <textarea id="description" name="description" value="<?= $description ?
>"><?php echo $formdata["description"]; ?></textarea>
          <span class="error <?= !isset($errors['description']) ? 'hidden' : '' ?
>"></span>
        </div>
      </fieldset>
      <fieldset>
        <legend>Status</legend>
        <div>
          <input type="radio" name="status" id="onhold" value="o"
          <?php if(isset($formdata["status"])){if($formdata["status"] == "o") echo
'checked';} ?>>
          <label for="onhold">On Hold</label>
        </div>
        <div>
          <input type="radio" name="status" id="progressing" value="p"
          <?php if(isset($formdata["status"])){if($formdata["status"] == "p") echo
'checked';} ?>>
          <label for="progressing">In Progress</label>
        </div>
        <div>
          <input type="radio" name="status" id="complete" value="c"
          <?php if(isset($formdata["status"])){if($formdata["status"] == "c") echo
'checked';} ?>>
          <label for="complete">Completed</label>
        </div>
        <span class="error <?= !isset($errors['status']) ? 'hidden' : '' ?
```

```
>">Please Choose List Status.</span>
      </fieldset>

      <fieldset>
        <legend>Validation</legend>
        <div>
          <label for="details">Details:</label>
          <textarea id="details" name="details" value="<?= $details ?>"><?php echo
$formdata["details"]; ?></textarea>
          <span class="error <?= !isset($errors['details']) ? 'hidden' : '' ?
>">Please Describe Your Entry.</span>
        </div>
        <div>
          <label for="proof">Proof (Image upload):</label>
          <input type="file" id="proof" name="proof">
          <span class="error <?= !isset($errors['proof']) ? 'hidden' : '' ?
>">Please Upload Your File.</span>
          <span class="error <?= !isset($errors['prooferror']) ? 'hidden' : '' ?
>">Something Went Wrong With The Image.</span>
          <span class="error <?= !isset($errors['proofsize']) ? 'hidden' : '' ?
>">The File Is Too Large (Max 1.5MB).</span>
          <span class="error <?= !isset($errors['prooftype']) ? 'hidden' : '' ?
>">The File Is The Wrong Format (PNG, JPG, JPEG).</span>

          <?php
          $printpath = "/~$direx[2]/www_data/";
          if (isset($formdata['image_url'])) {?>
            <div><?php echo "Current File on The List:"; ?></div>
             <div>
              <img src="<?php echo $printpath . $formdata['image_url']?>"
height="300">
             </div>
              <?php } ?>
        </div>

      </fieldset>
      <fieldset>
        <legend>Completed</legend>
        <div>
          <label for="rating">Score:</label>
          <input type="range" id="rating" name="rating" min="1" max="100" value="
<?php if(isset($formdata["rating"])){echo $formdata["rating"];} ?>">
          <output for="rating"></output>
          <?php echo $formdata["rating"]?>
        </div>
        <div>
          <label for="completionDate">Completion Date:</label>
          <input type="date" id="completionDate" name="completionDate" value="<?
php if(isset($formdata["completion_date"])){echo $formdata["completion_date"];} ?
>">
        </div>
      </fieldset>
      <fieldset>
        <legend>Options</legend>
```

```
        <div>
            <label for="public_view">Make List Public?:</label>
            <input type="hidden" id="public_view" name="public_view" value="Private"
<?php if($formdata["status"] == 'Private') echo 'checked'; ?>>
            <input type="checkbox" id="public_view" name="public_view"
value="Public"<?php if($formdata["status"] == 'Public') echo 'checked'; ?>>
        </div>
      </fieldset>
      <button id="submit" name="submit">Update</button>
    </form>
  </main>
  <?php include './includes/footer.php' ?>
</body>

</html>
```

## Testing



# Delete Item

## HTML/PHP

```php
<?php
require './includes/library.php';

session_start();

// Check if the user is logged in
if (!isset($_SESSION['username'])) {
    header("Location: login.php");
    exit();
}
if(isset($_GET['id'])){
    $list_id = $_GET['id'];
}
  $userid = $_SESSION['user_id'];

$pdo = connectDB();
// Check if the user has confirmed the account deletion
if (isset($_POST['DelList'])) {
    // Delete The List
    $stmtDeleteList = $pdo->prepare("DELETE FROM 3420_assg_lists WHERE user_id = ?
AND list_id = ?");
    $stmtDeleteList->execute([$userid, $list_id]);

// Redirect to Home Page
header("Location: index.php");
exit();
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/05ad49203b.js"
crossorigin="anonymous"></script>
    <title>Delete Item</title>
    <!-- include CSS-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
</head>
<body>
    <header>
        <!--This will be the main heading of the page so users know what page
they're on-->
        <h1>Delete Item</h1>
        <?php include './includes/nav.php' ?>
    </header>
    <main>
        <form action="" method="post">
            <fieldset>
                <legend>Confirmation</legend>
```

```
                <p>Are you sure you want to delete your Item? This action cannot
be undone.</p>
                <div>
                    <button type="submit" name="DelList" class="big-button">Yes,
I'm sure. Delete my Item</button>
                </div>
            </fieldset>
        </form>
    </main>
    <?php include './includes/footer.php' ?>
</body>
</html>
```
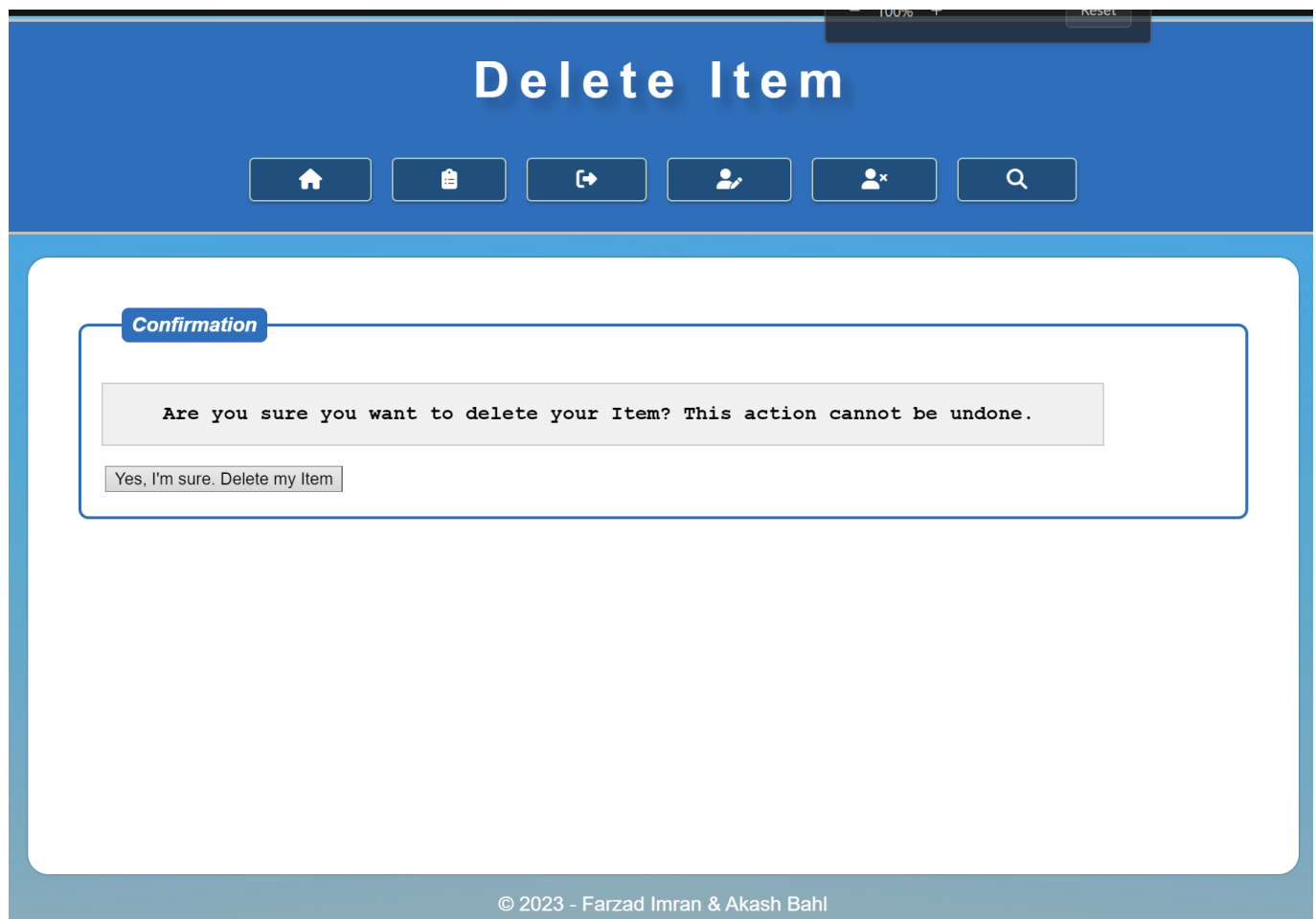
Testing



## Display Item Details

### HTML/PHP

```php
<?php
session_start(); // Start the session

require './includes/library.php';
```

```php
  // Assume you have the item ID passed as a parameter in the URL (e.g., view-
  item.php?id=1)
  if(isset($_GET['id'])){
    $list_id = $_GET['id'];}
    $userid = $_SESSION['user_id'] ?? null;

  if (!$itemId) {
      // Redirect or handle the case where no item ID is provided
      header("Location: index.php");
      exit();
  }


  $pdo = connectDB();

  // Check if the item is public or if the user is the owner
  $check = "SELECT user_id, publicity FROM 3420_assg_lists WHERE list_id = ?";
  $checkownership = $pdo->prepare($check);
  $checkownership->execute([$itemId]);
  $result = $checkownership->fetch(PDO::FETCH_ASSOC);

  // If the item is private and the user is not the owner, or if the item is not
  found, redirect to index.php
  if (!$result || ($result['publicity'] == "Private" && $result['user_id'] !=
  $userid)) {
      header("Location: index.php");
      exit();
  }

  // Fetch the data if the item is public or if the user is the owner
  $stmt = $pdo->prepare("SELECT * FROM 3420_assg_lists WHERE list_id = ?");
  $stmt->execute([$itemId]);
  $item = $stmt->fetch();

  // Check if the item is not found
  if (!$item) {
      // Redirect or handle the case where the item is not found
      header("Location: index.php");
      exit();
  }
  ?>

  <!DOCTYPE html>
  <html lang="en">
    <head>
      <meta charset="UTF-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      <script src="https://kit.fontawesome.com/05ad49203b.js"
  crossorigin="anonymous"></script>
      <title>View Item</title>
      <!-- include javascript and css-->
      <link rel="stylesheet" href="styles/main.css">
      <script defer src="js/scripts.js"></script>
    </head>
    <body>
```

```
    <header>
      <!--This will be the main heading of the page so users know what page
they're on-->
      <h1>View Item</h1>
      <?php include './includes/nav.php' ?>
    </header>
    <main>
      <!-- Display item content using the fetched data -->
      <form id="view-form" method="post" action="">
        <fieldset>
          <legend>List Info</legend>
          <div>
            <label for="title">Title:</label>
            <input type="text" id="title" name="title" value="<?php echo
$item["title"]; ?>" readonly>
          </div>
          <div>
            <label for="title">Description:</label>
            <input type="text" id="description" name="description" value="<?php
echo $item["description"]; ?>" readonly>
          </div>
          <div>
            <label for="rating">User Score: <?php echo $item["rating"]?></label>
            <input type="range" id="rating" name="rating" min="1" max="100"
value="<?php echo $item["rating"]; ?>" disabled>
            <output for="rating"></output>
          </div>
          <div>
          <label for="title">Completion Date:</label>
            <input type="date" value="<?php echo $item["completion_date"]; ?>"
disabled>
          </div>
        </fieldset>
        <fieldset>
          <legend>Description</legend>
          <div>
            <label for="details">Details:</label>
            <p><?php echo $item['details']; ?></p>
          </div>
          <!-- Other HTML elements using data from $item -->
          <div>
            <?php if (isset($item['image_url'])): ?>
              <label>Image Proof:</label>
              <img src="<?php echo "/~$direx[2]/www_data/" . $item['image_url']; ?
>" height="300">
            <?php endif; ?>
          </div>
        </fieldset>
      </form>
    </main>
    <?php include './includes/footer.php' ?>
  </body>
</html>
```
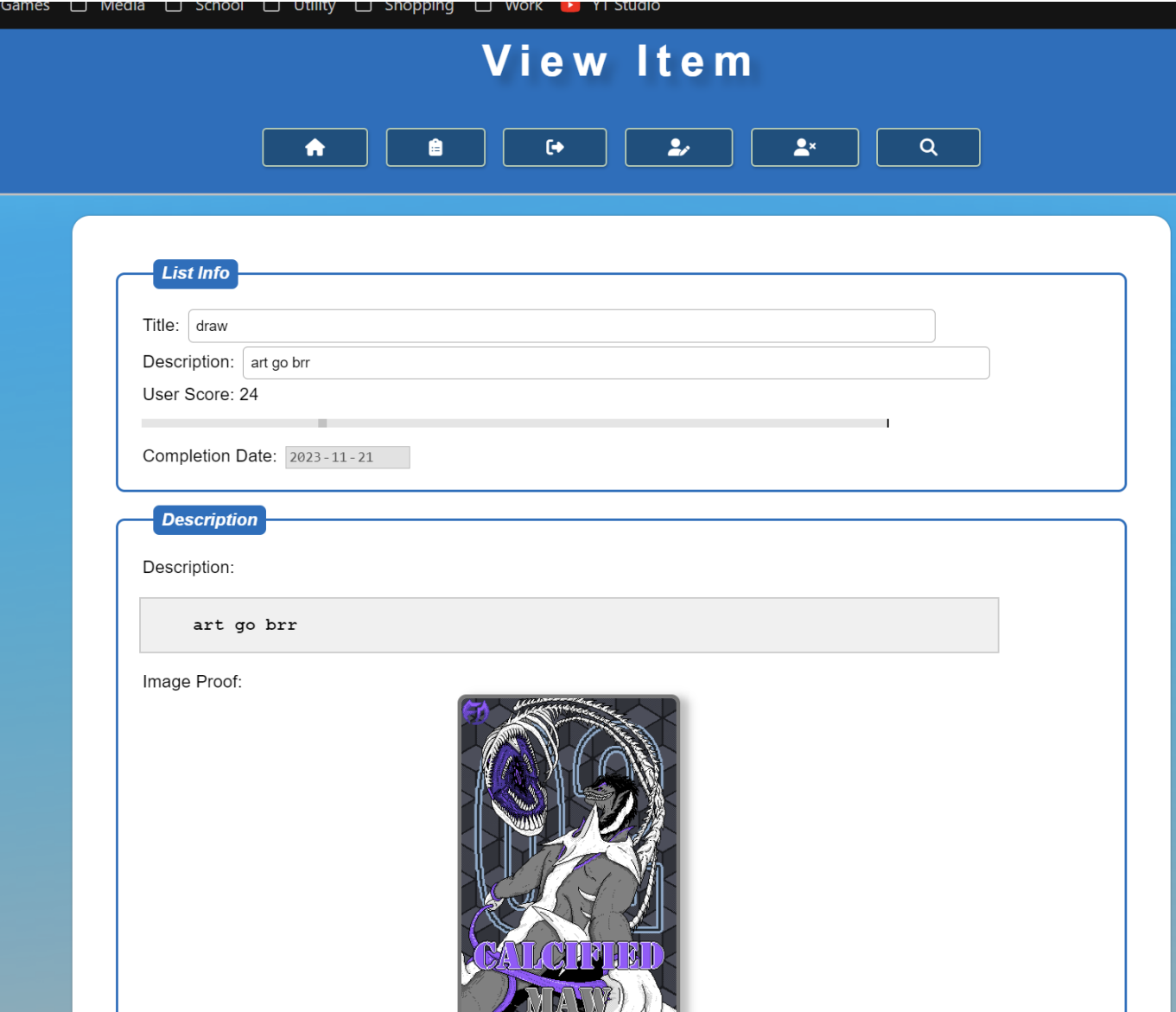
2023-11-25

## Testing



## Search

### HTML/PHP

```php
<?php
session_start();

require_once "includes/library.php";
$pdo = connectDB();

$search = $_POST['search'] ?? "";
$errors = array();
$userLists = array();
$varpub ="Public";

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

```php
    $search = strip_tags($search);
    if($search == ""){
      $errors['search'] = true;
    }

    if (!count($errors)){
      $pdo = connectDB();

      // Use wildcards for a partial match
      $searchTerm = "%$search%";
      $query = "SELECT * FROM 3420_assg_lists WHERE `title` LIKE ? AND publicity = ?
OR `description` LIKE ? AND publicity = ?";
      $stmt = $pdo->prepare($query);
      $stmt->execute([$searchTerm, $varpub, $searchTerm, $varpub]);
    }
}

?>

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <script src="https://kit.fontawesome.com/05ad49203b.js"
crossorigin="anonymous"></script>
    <title>Search</title>
    <!-- include javascript and css-->
    <link rel="stylesheet" href="styles/main.css">
    <script defer src="js/scripts.js"></script>
</head>

<body>
    <header>
        <!--This will be the main heading of the page so users know what page
they're on-->
        <h1>Search</h1>

        <?php include './includes/nav.php' ?>
    </header>
    <div>
        <form id="search-form" class="search-form" method="post">
            <input
                type="text"
                class="search_input"
                placeholder="Search for lists in the form"
                name="search"
                value="<?=$search?>"
            />
            <span class="<?= isset($errors['search']) ? "" : "hidden"; ?>">
                You must enter a search
            </span>
            <!--Added name attribute for the search input ^-->
```

```
                    <button type="submit" name="submit" class="search_button">
                        <i class="fa-solid fa-magnifying-glass"></i>
                    </button>

                    <!-- Random id picker for the feeling lucky function -->
                    <?php
                    $rand = "SELECT list_id FROM 3420_assg_lists WHERE publicity = ? ORDER
BY RAND() LIMIT 1;";
                    $randid = $pdo->prepare($rand);
                    $randid->execute([$varpub]);
                    $listid = $randid->fetch(PDO::FETCH_ASSOC);
                    ?>

                    <button type="button" class="feelin_lucky"><a class="feelin_lucky"
href="view-item.php?id=<?php echo $listid["list_id"]; ?>">Feelin Lucky?</button>
            </form>
        </div>

        <div>

        <?php if (isset($_POST['submit']) && !count($errors)) : ?>
            <h2>Search Results for <?= $search; ?></h2>
            <?php if ($stmt->rowCount() <= 0) : ?>
                <p>No Results found</p>
            <?php else : ?>
                <ul>
                <?php foreach ($stmt as $row) : ?>
                    <li><a href="view-item.php?id=<?= $row['list_id'] ?>"><?=
$row['title'] ?></a></li>
                    <?php endforeach ?>
                </ul>
            <?php endif ?>
        <?php endif ?>
        </div>

    <?php include './includes/footer.php' ?>
    </body>
</html>
```
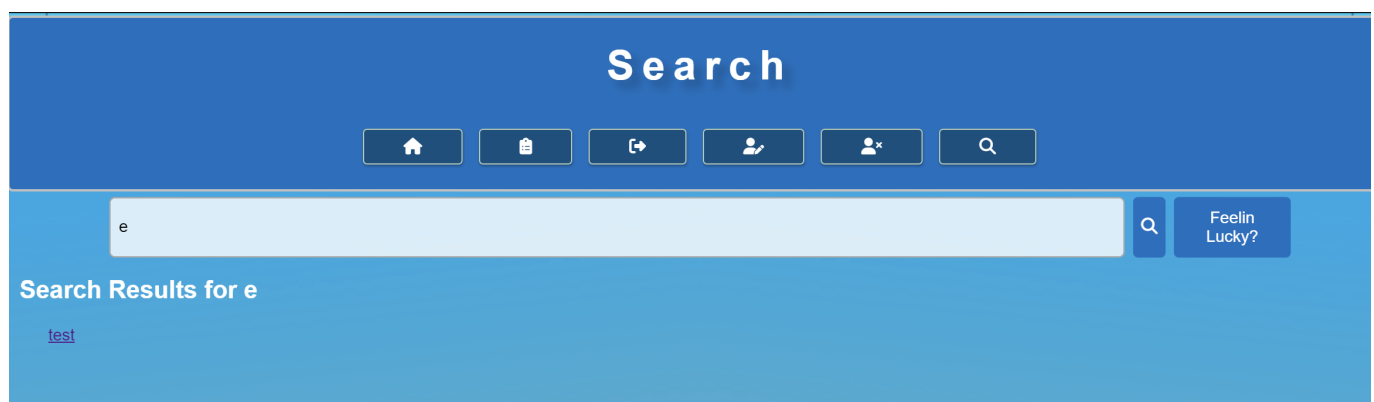
Testing

# Styles

```css
/* Importing a CSS reset file */
@import 'reset.css';

/* Common styles for the entire page */
:root {
  font-family: 'Helvetica', sans-serif;
  font-size: 1em; /* Base font size */
  font-weight: 400;
  background-color: white;
  color: black;
}

/* Header Styles */
header {
  background-color: #0070c0; /* Header background color */
  color: white; /* Text color in the header */
  text-align: center;
  padding: 0.5em 0; /* Top and bottom padding */
  display: block;
  padding: 0.5em 2.4em; /* Left and right padding */
  border-radius: 0.35em; /* Rounded corners */
  border: 0.15em solid #C0C0C0; /* Border style */
  margin: 0.15em 0; /* Top and bottom margin */
}
/* Body Styles */
/* Body Styles */
body {
  display: flex;
  flex-direction: column;
  font-family: Arial, sans-serif;
  min-height: 100vh;
  font-size: 1em;
  background: url("../images/BGColour.png") top left no-repeat fixed;
  background-size: cover;
  /* Background image with fixed position */
}

/* Navigation Styles */
nav a,
nav a:visited,
nav button {
  text-decoration: none;
  color: white;
  display: inline-block;
  padding: 0.5em 2.4em;
  border-radius: 0.25em;
  border: 0.1em solid #B1CCB4;
  text-align: center;
  box-shadow: 0.05em 0.1em 0.15em rgba(0, 0, 0, 25%);
  margin-top: 0.5em;
```

```css
    background-color: #005080;
    cursor: pointer;
}

/* Hover state for buttons and nav links */
nav a:hover,
nav a:visited:hover,
nav button:hover, i[class="fa-solid fa-pen-to-square"]:hover{
    color: white;
    background-color: green;
    transform: scale(1.2);
    /* Change the background color on hover */
}

/* "Mid-click" state for buttons and nav links */
nav a:active,
nav a:visited:active,
nav button:active {
    color: black;
    background-color: darkgreen;
    /* Change the background color on click */
}

nav ul {
    display: flex;
    justify-content: space-around;
    flex-direction: row;
    max-width: 30rem;
    margin: 0 auto;
}

/* Additional Styles */
form {
    margin: 0.5em;
    padding: 0.5em;
}

/* Fieldset's label */
legend {
    background-color: #0070c0;
    color: white;
    font-style: italic;
    margin: 0 1em; /* no extra top/bottom margins */
    padding: 0.35em 0.50em;
    border-radius: 0.35em;
    font-weight: 600;
}

fieldset {
    background-color: white;
    border: 0.15em solid #0070c0;
    border-radius: 0.5em;
    padding: 1em 7em 1em 1em;
    margin-bottom: 0.75em;
```

```css
}

fieldset div label, fieldset div {
  margin: 0.2em;
}

label {
  display: inline-block;
  margin-bottom: 0.5em;
}

/* Form input fields */
input[type="text"],
textarea, input[type="password"], input[type="range"] {
  width: 85%;
  padding: 0.5em;
  border: 0.06em solid #ccc;
}

input[type="radio"], input[type="checkbox"] {
  margin-right: 0.25em;
}

input[type="file"] {
  margin-bottom: 0.5em;
}

input[type="submit"], button[id="submit"] {
  background-color: #0070c0;
  color: white;
  padding: 0.5em 2.4em;
  border: none;
  cursor: pointer;
  text-transform: uppercase;
  margin-top: 0.5em;
}

input[type="submit"]:hover, button[id="submit"]:hover {
  background-color: #005090;
  transform: scale(1.2);
}

/* Header H1 Styles */
header h1 {
  text-align: center;
  font-weight: 600;
  font-size: 2rem;
  margin: 0.2em 0;
  font-size: 2.5rem;
  letter-spacing: 0.2em;
  text-shadow: 0.2em 0.2em 0.2em rgba(0, 0, 0, 0.2);
  padding: 0.25em 0;
}
```

```css
main {
  background-color: white;
  max-width: 60rem;
  margin: 1em auto;
  border-radius: 1em;
  padding: 1.5em;
  flex-grow: 1;
  width: 100%;
  box-shadow: 0 0 0.1em rgba(0, 0, 0, 0.5);
}

main pre {
  margin-bottom: 0.75em;
}

main p {
  font-weight: 600;
  margin: 1em 0;
  text-indent: 2em;
  text-align: justify;
  background-color: #f0f0f0; /* Set a light gray background color */
  padding: 1em;
  border: 0.1em solid #ccc; /* Add a light border for separation */
  font-family: 'Courier New', monospace; /* Use a monospace font for code */
  font-size: 1em;
  margin: 1em 0; /* Add margin for separation */
  overflow-x: auto; /* Add horizontal scrollbar if content overflows */
}

main img {
  display: block;
  margin: 0 auto;
  height: 25%;
  width: 25%;
  border: 0.25em solid #777;
  border-radius: 0.5em;
  box-shadow: 0.5em 0.15em 0.5em rgba(0, 0, 0, 0.25);
}

/* Buttons */
button.btn, i[class="fa-solid fa-pen-to-square"], i[class="fa-solid fa-trash"]{
  background-color: #0070c0;
  color: white;
  border: none;
  border-radius: 0.35em;
  padding: 0.4em 1em;
  cursor: pointer;
  margin-bottom: 0.2em;
}

i[class="fa-solid fa-trash"]:hover  {
  background-color: red;
  transform: scale(1.2);
```

```css
}

/* Form input fields */
input[type="text"],
input[type="password"],
textarea {
  background-color: rgba(255, 255, 255, 0.8);
  border: 0.1em solid #aaa;
  border-radius: 0.35em;
  padding: 0.5em;
}

/* Form input focus */
input[type="text"]:focus,
input[type="password"]:focus,
textarea:focus {
  border-color: #0070c0;
  box-shadow: 0 0 0.25em rgba(0, 112, 192, 0.5);
}

/* Footer styles */
footer{
  color: white;
  font-size: 1em;
  text-align: center;
  margin-top: auto;
  margin-bottom: 0.5em;
}

/* Responsive design (adjust for smaller screens) */
@media (max-width: 48em) {
  header h1 {
    font-size: 2rem;
  }

  nav a {
    padding: 0.5em 1.7em;
  }

  button.btn {
    color: white;
    padding: 0.5em 0.8em;
  }
}

h2 {
  text-align: left;
  font-weight: 550;
  font-size: 1.5em;
  padding-bottom: 0.5rem;
  margin-top: 1rem;
  margin-left: 0.5em;
}
```

```css
li {
  padding: 0.5rem;
  margin: 0.5rem 0;
}

main h2 {
  text-align: left;
  font-weight: 600;
  font-size: 1.3rem;
  margin: 0.3em 0em;
}
ul {
  margin-left: 2em;
}
button.search_button,
button.feelin_lucky {
  background-color: #0070c0;
  color: white;
  border: none;
  cursor: pointer;
  padding: 0.3em 0.5em;
  margin-left: 0.5em;
  border-radius: 0.3em; /* Rounded corners */
}

button.search_button:hover,
button.feelin_lucky:hover {
  transform: scale(1.2);
}

form.search-form {
 display: flex;
 flex-direction: row;
 transform: scale(1.2);
 margin: 0 auto;
 max-width: 60rem;
}

.search_input {
  width: 80%; /* Use a percentage for width */
  height: 2.5em; /* Use em for height */
  padding: 0.5em; /* Use em for padding */
  border: 0.25em solid #ccc;
  border-radius: 0.15em;
}
/* Error Message*/
.error {
  display: inline-block;
  color: palevioletred;
  font-style: italic;
  margin: 1em;
}

div>.error {
```

```css
    /* if error is in div, no top/bottom margins needed*/
    margin: 0 1em;
}

.hidden {
    display: none;
}

a.feelin_lucky{
    text-decoration: none;
    color: white;
}
```

*if for some reason you ended up with more then one stylesheet, they should be labelled*