

**CS4032 – Web Programming**

**Assignment No 2**

|  |  |
| --- | --- |
| **Instructor:** | Sumaira Mustafa |
| **Email:** | [sumaira.mustafa@nu.edu.pk](mailto:sumaira.mustafa@nu.edu.pk) |
| **Semester:** | Spring 2024 |
| **Section:** | BSCS-6C |

**Question 1: GitHub Repository**

**Create a GitHub repo for this course. Push your last Assignment 1 and all Class activities there.**

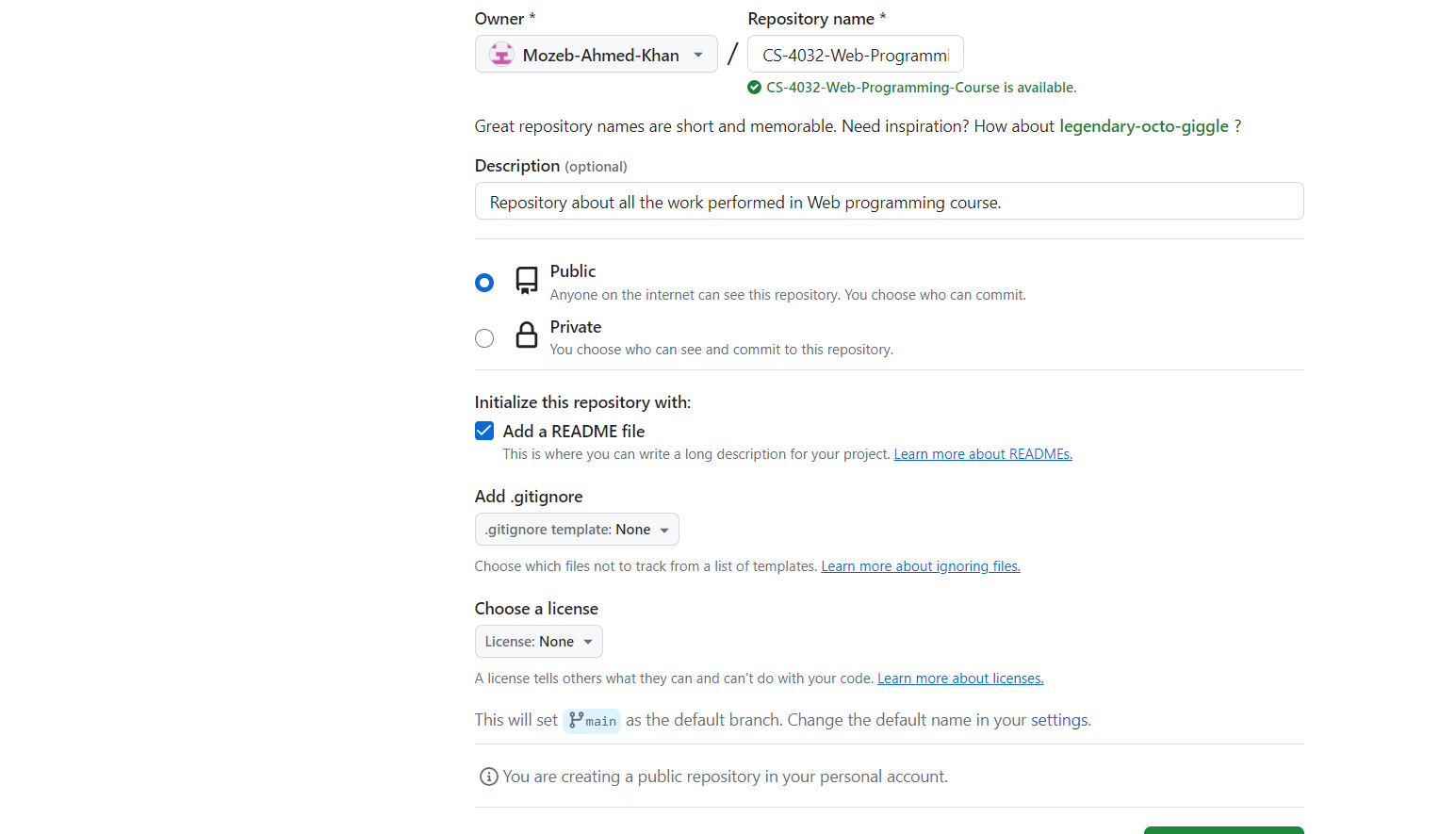
**• You can push all class activities in a same branch.**

**• Create separate branch for every assignment. Every assignment branch should have a readme file containing brief description of work and screen shots of all pages created. No need to do this for class activities.**

**• Make sure to commit properly and commit every module separately. 1 commit for whole assignment will result in 0 marks. (For assignment 2 & future work). Assignment 1 and previous class participations can be submitted in 1 commit.**

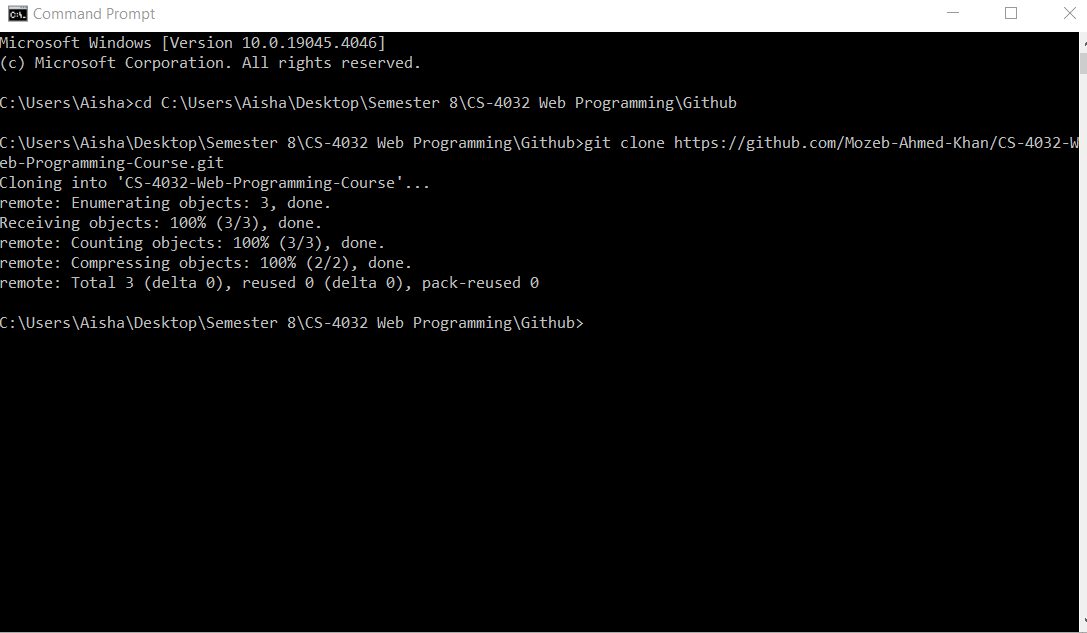
**Step 1: Creating Repository**

First, I created a GitHub public repository named as “CS-4032-Web-Programming-Course”.



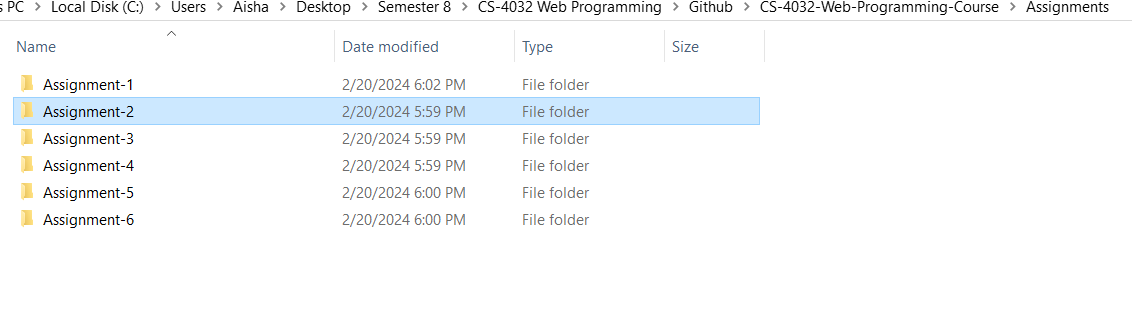
**Step 2: Cloning Repository**

Then, I cloned my repository using ‘git clone’ command followed by URL of my repository.



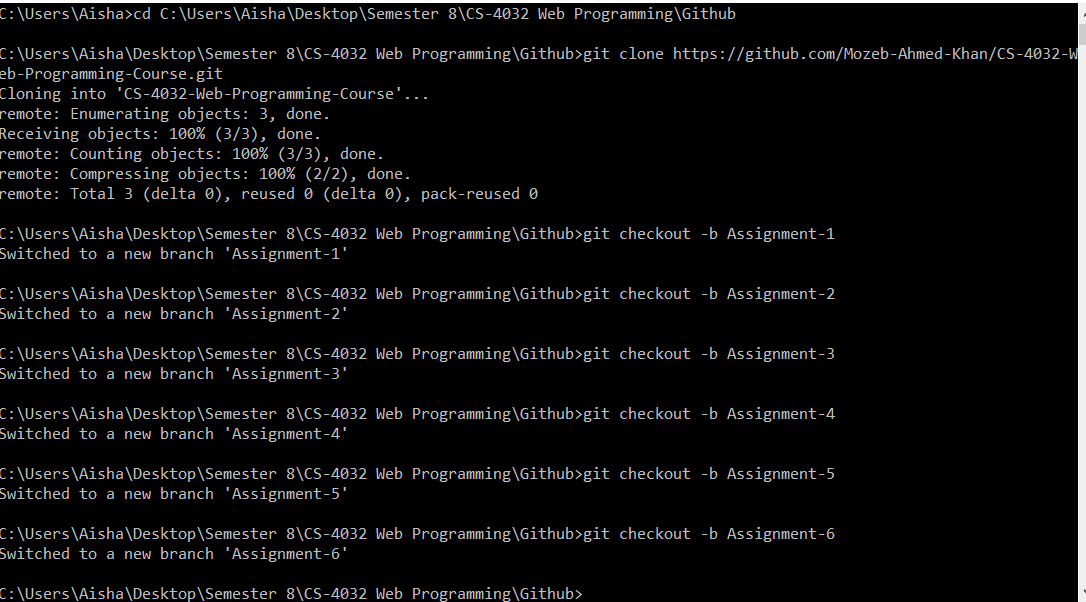
**Step 3: Organizing the Files**

Then, I created sub folders within my “Assignment” folder named as “Assignment-1”, “Assignment-2” etc. I also added my files like html and word files into the sub folders.



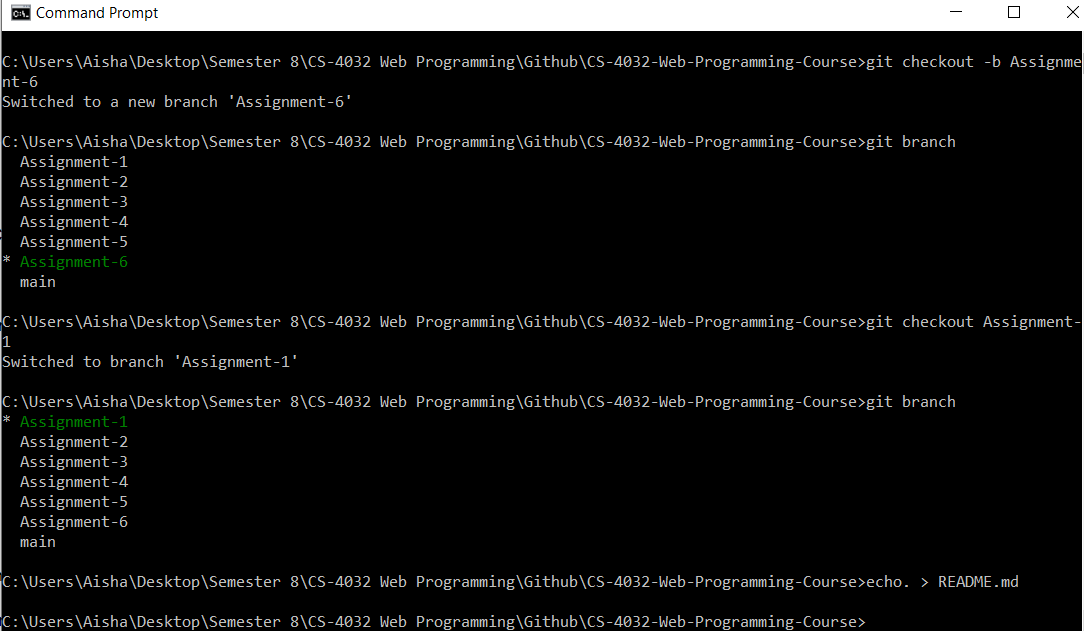
**Step 4: Creating Assignments Branches**

Then, I created separate branches for each assignment using command “git checkout –b”.



**Step 5: Creating README Files for Each Branch**

Then, I created a read me file for my branch 1.



**Step 6: Pushing and Committing**

Then, I pushed my files on GitHub. Then, I commit them on repository.

**Question 2: JavaScript Form Validation**

**You have already created sign in and sign-up forms in assignment 1. Add input validation in every field of each form, using JavaScript.**

1. **Identify required fields.**
2. **Validate input format and type.**
3. **Check input data length.**
4. **Validate numeric input.**
5. **Validate date input.**
6. **Use pattern matching with regular expressions.**
7. **Provide clear error messages.**
8. **Thoroughly test validation process.**

**Signup form should have different fields, like Username, Password, Birthdate (date input), Email, Gender, Phone Number, Zip code, country.**

1. **Landing Page:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Lux Style Awards</title>

    <style>

        body {

            margin: 0;

            padding: 0;

            font-family: Arial, sans-serif;

        }

        .container-navbar {

            display: flex;

            align-items: center;

            justify-content: space-between;

            height: 75px;

            padding: 0 20px;

            background-color: white;

            border-bottom: 1px solid burlywood;

        }

        .container-navbar img {

            height: 50px;

            width: auto;

            margin: 0 10px;

        }

        .container-login {

            text-align: center;

            background-color: white;

            border-bottom: 1px solid burlywood;

            padding: 20px;

        }

        .button-home,

        .button-login {

            padding: 10px 20px;

            background-color: rgb(145, 114, 36);

            color: white;

            border: none;

            cursor: pointer;

            margin: 0 10px;

        }

        .button-login {

            background-color: white;

            color: rgb(145, 114, 36);

            transition: background-color 0.3s, color 0.3s;

        }

        .button-login:hover {

            background-color: rgb(145, 114, 36);

            color: white;

        }

        .container-image {

            background-color: white;

            border-bottom: 1px solid burlywood;

        }

        .container-image img {

            width: 100%;

            height: auto;

        }

        .container-gallery {

            background-color: lavender;

            padding: 20px;

        }

        .container-gallery img {

            width: 30%;

            height: auto;

            margin: 10px;

        }

        .footer {

            background-color: white;

            text-align: center;

            padding: 20px;

        }

        .footer img {

            height: 30px;

            width: auto;

            margin-right: 10px;

        }

        .footer a {

            color: seagreen;

            text-decoration: none;

            margin: 0 10px;

        }

        .footer a:hover {

            text-decoration: underline;

        }

        @media only screen and (max-width: 768px) {

            .container-navbar {

                height: auto;

                flex-direction: column;

                align-items: flex-start;

                padding: 20px;

            }

            .container-navbar img {

                margin: 10px 0;

            }

            .container-login {

                padding: 10px;

            }

            .button-home,

            .button-login {

                margin: 10px;

            }

            .container-login1 {

                padding: 10px;

            }

            .login-form {

                max-width: 100%;

            }

        }

    </style>

</head>

<body style="background-color: lavender;">

    <header>

        <div class="container-navbar">

            <a href="https://www.facebook.com/LuxPakistan/" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/facebook\_logo1.jpg" alt="Facebook"></a>

            <a href="https://twitter.com/i/flow/login?redirect\_after\_login=%2FLuxStylePk" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/twitter\_logo1.jpg" alt="Twitter"></a>

            <a href="https://www.instagram.com/luxstylepk/" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/instagram\_logo1.jpg" alt="Instagram"></a>

            <a href="https://www.youtube.com/channel/UCUjdhbKM8OuXNwbtpnLkt0A" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/youtube\_logo1.jpg" alt="Youtube"></a>

            <a href="Task2-landing(InputValidation).html"><img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo"></a>

        </div>

    </header>

    <div class="container-login">

        <button class="button-home" onclick="location.href='Task2-landing(InputValidation).html'">Home</button>

        <button class="button-login" onclick="location.href='Task2-login(InputValidation).html'">Login For Voting</button>

    </div>

    <div class="container-image">

        <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\lux.jpg" alt="Lux">

    </div>

    <div class="container-gallery">

        <h1 style="font-size:40px;color: rgb(145, 114, 36);text-align: center;">Lux Style Awards</h1>

        <p style="color: rgb(106, 93, 77);text-align: center;">Catch all the stills from the star-studded events!</p>

        <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\movie.jpg" alt="Movie1">

        <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\movie2.jpg" alt="Movie2">

        <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\movie3.jpg" alt="Movie3">

    </div>

    <footer>

        <div class="footer">

            <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo">

            <p>© 2024 LUX, UNILEVER PAKISTAN LIMITED. ALL RIGHTS RESERVED</p>

            <a href="#privacy-policy">Privacy Policy</a>

            <a href="#cookie-policy">Cookie Policy</a>

            <a href="#contact">Contact</a>

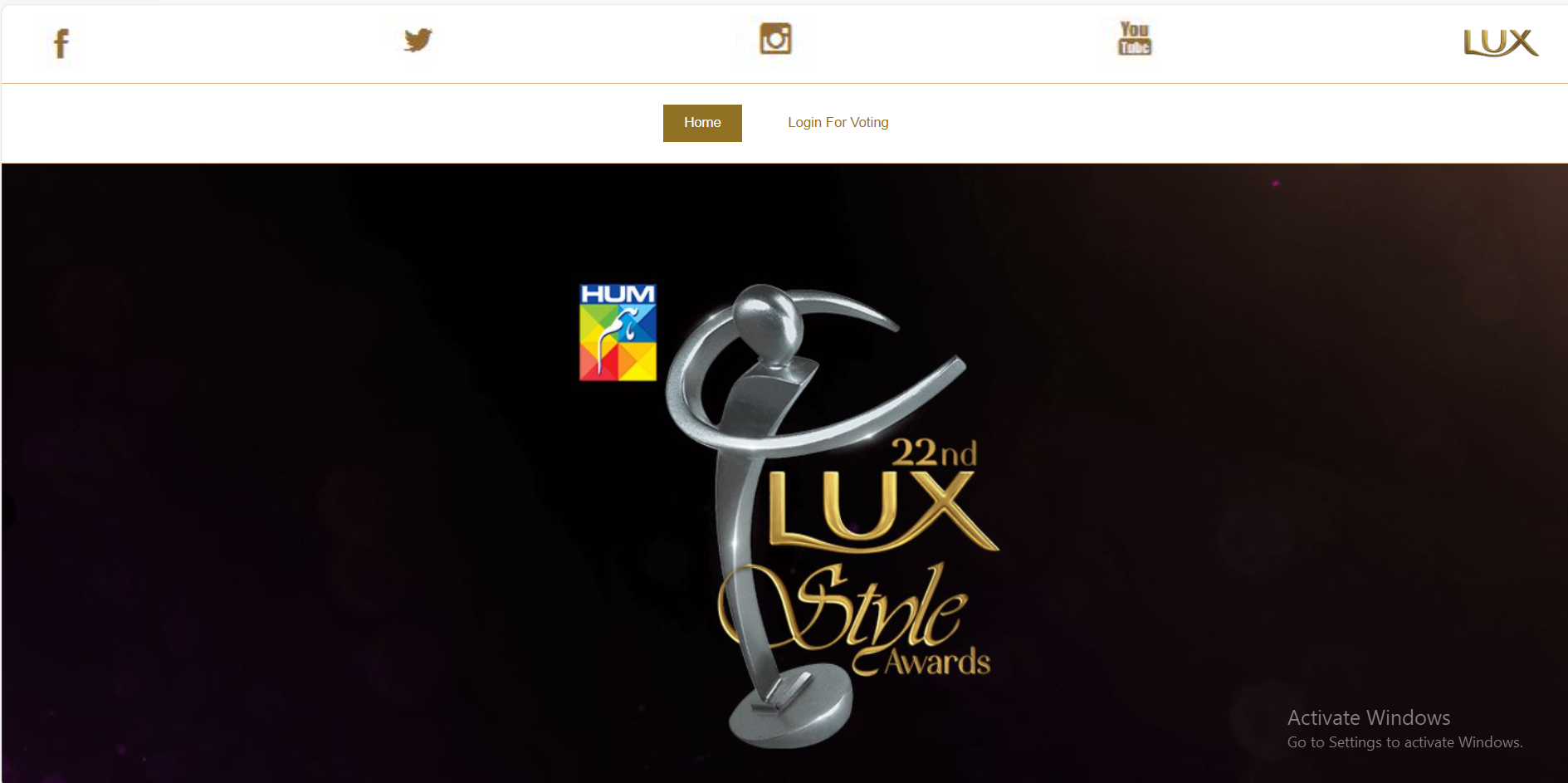
        </div>

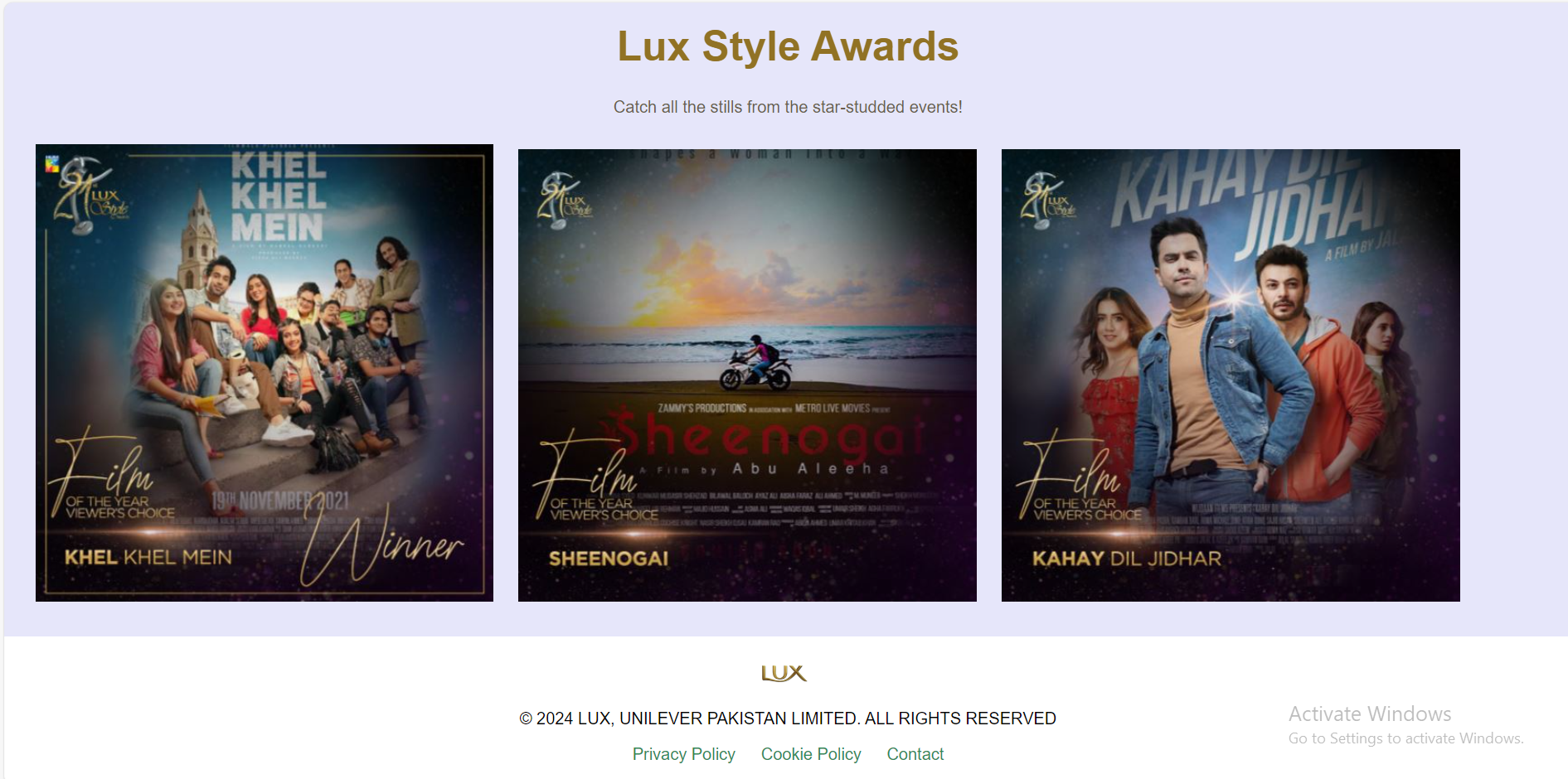
    </footer>

</body>

</html>

**Output:**





1. **Login Page (Input Validation)**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Lux Style Awards</title>

    <style>

        body {

            margin: 0;

            padding: 0;

            font-family: Arial, sans-serif;

            background-color: lavender;

            display: flex;

            flex-direction: column;

            min-height: 100vh;

        }

        .container-navbar {

            display: flex;

            align-items: center;

            justify-content: space-between;

            height: 75px;

            padding: 0 20px;

            background-color: white;

            border-bottom: 1px solid burlywood;

        }

        .container-navbar img {

            height: 50px;

            width: auto;

            margin: 0 10px;

        }

        .container-login {

            text-align: center;

            background-color: white;

            border-bottom: 1px solid burlywood;

            padding: 20px;

        }

        .button-home,

        .button-login {

            padding: 10px 20px;

            background-color: rgb(145, 114, 36);

            color: white;

            border: none;

            cursor: pointer;

            margin: 0 10px;

        }

        .button-login {

            background-color: white;

            color: rgb(145, 114, 36);

            transition: background-color 0.3s, color 0.3s;

        }

        .button-login:hover {

            background-color: rgb(145, 114, 36);

            color: white;

        }

        .container-login1 {

            background-image: url("C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/background-login.jpg");

            text-align: center;

            padding: 20px;

            flex: 1;

            display: flex;

            justify-content: center;

            align-items: center;

            flex-direction: column;

        }

        .login-form {

            max-width: 400px;

            background-color: transparent;

            padding: 20px;

            border: 1px solid rgb(145, 114, 36);

            opacity: 0;

            transform: translateX(-100px);

            animation: slideInFromLeft 1s ease-in-out forwards;

        }

        @keyframes slideInFromLeft {

            to {

                opacity: 1;

                transform: translateX(0);

            }

        }

        .login-form input[type="text"],

        .login-form input[type="password"],

        .login-form input[type="email"],

        .login-form input[type="tel"]

         {

            width: 100%;

            padding: 10px;

            margin: 10px 0;

            box-sizing: border-box;

            border: 1px solid rgb(145, 114, 36);;

            border-radius: 5px;

            background-color: rgba(255, 255, 255, 0.1);

            color: rgb(145, 114, 36);

        }

        .login-form input::placeholder {

            color: rgba(145, 114, 36, 0.9);

        }

        .login-form img {

            height: 50px;

            width: auto;

            margin: 0 10px;

        }

        .login-form button {

            width: 100%;

            padding: 10px;

            background-color: rgb(145, 114, 36);

            color: white;

            border: none;

            border-radius: 5px;

            cursor: pointer;

        }

        .login-form button:hover {

            background-color: #8b5e2b;

        }

        .signup-link {

            display: block;

            margin-top: 20px;

            color: rgb(145, 114, 36);

            text-decoration: none;

        }

        .signup-link:hover {

            text-decoration: underline;

        }

        .footer {

            background-color: white;

            text-align: center;

            padding: 20px;

            margin-top: auto;

        }

        .footer img {

            height: 30px;

            width: auto;

            margin-right: 10px;

        }

        .footer a {

            color: seagreen;

            text-decoration: none;

            margin: 0 10px;

        }

        .footer a:hover {

            text-decoration: underline;

        }

        @media only screen and (max-width: 768px) {

            .container-navbar {

                height: auto;

                flex-direction: column;

                align-items: flex-start;

                padding: 20px;

            }

            .container-navbar img {

                margin: 10px 0;

            }

            .container-login {

                padding: 10px;

            }

            .button-home,

            .button-login {

                margin: 10px;

            }

            .container-login1 {

                padding: 10px;

            }

            .login-form {

                max-width: 100%;

            }

        }

    </style>

</head>

<body>

    <header>

        <div class="container-navbar">

            <a href="https://www.facebook.com/LuxPakistan/" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/facebook\_logo1.jpg" alt="Facebook"></a>

            <a href="https://twitter.com/i/flow/login?redirect\_after\_login=%2FLuxStylePk" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/twitter\_logo1.jpg" alt="Twitter"></a>

            <a href="https://www.instagram.com/luxstylepk/" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/instagram\_logo1.jpg" alt="Instagram"></a>

            <a href="https://www.youtube.com/channel/UCUjdhbKM8OuXNwbtpnLkt0A" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/youtube\_logo1.jpg" alt="Youtube"></a>

            <a href="Task2-landing(InputValidation).html"><img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo"></a>

        </div>

    </header>

    <div class="container-login">

        <button class="button-home" onclick="location.href='Task2-landing(InputValidation).html'">Home</button>

        <button class="button-login" onclick="location.href='Task2-login(InputValidation).html'">Login For Voting</button>

    </div>

    <div class="container-login1">

        <div class="login-form">

            <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo">

            <h2 style="color: rgb(145, 114, 36);font-weight: lighter;">Login</h2>

            <form id="loginForm" action="login\_process.php" method="post">

                <input type="text" name="username" id="username" placeholder="User Name \*"  required>

                <input type="password" name="password" id="password" placeholder="Password \*" required>

                <button type="submit">Login</button>

            </form>

            <a href="Task2-signup(InputValidation).html" class="signup-link">Didn't Have Any Account? Create New Account</a>

        </div>

    </div>

    <script>

        function validateUsername(username) {

            const regex = /^\S\*$/;

            return regex.test(username);

        }

        function validatePassword(password) {

            return password.length >= 6;

        }

        document.getElementById('loginForm').addEventListener('submit', function(event) {

            const username = document.getElementById('username').value;

            const password = document.getElementById('password').value;

            if (!validateUsername(username)) {

                alert('Invalid username! Username must not have any space.');

                event.preventDefault;

                return false;

            }

            if (!validatePassword(password)) {

                alert('Invalid password! Username must be having atleast 6 letters.');

                event.preventDefault;

                return false;

            }

        });

    </script>

    <footer>

        <div class="footer">

            <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo">

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            <a href="#privacy-policy">Privacy Policy</a>

            <a href="#cookie-policy">Cookie Policy</a>

            <a href="#contact">Contact</a>

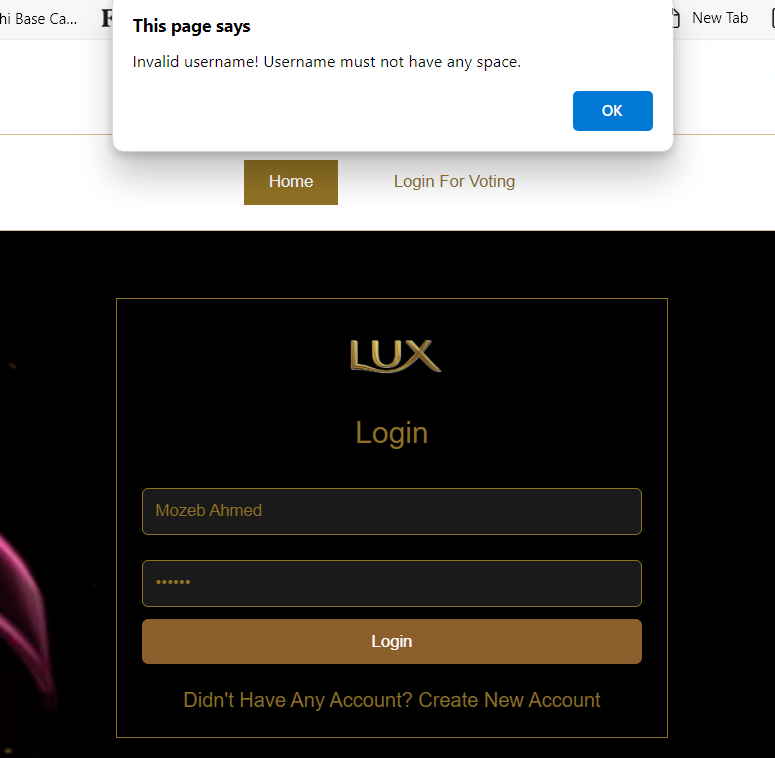
        </div>

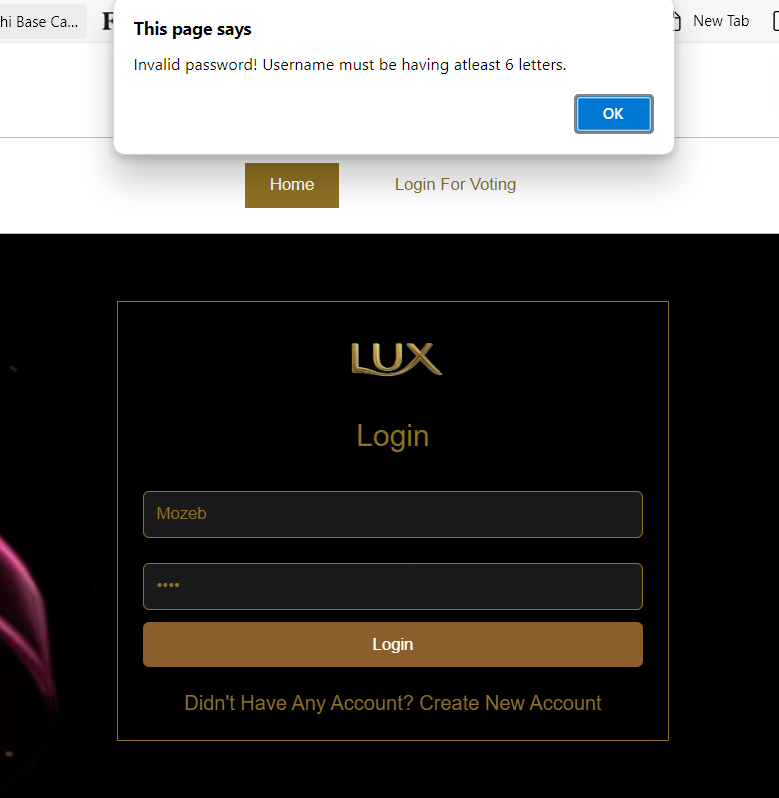
    </footer>

</body>

</html>

**Output:**





1. **Signup Page (Input Validation)**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Lux Style Awards</title>

    <style>

        body {

            margin: 0;

            padding: 0;

            font-family: Arial, sans-serif;

            background-color: lavender;

            display: flex;

            flex-direction: column;

            min-height: 100vh;

        }

        .container-navbar {

            display: flex;

            align-items: center;

            justify-content: space-between;

            height: 75px;

            padding: 0 20px;

            background-color: white;

            border-bottom: 1px solid burlywood;

        }

        .container-navbar img {

            height: 50px;

            width: auto;

            margin: 0 10px;

        }

        .container-login {

            text-align: center;

            background-color: white;

            border-bottom: 1px solid burlywood;

            padding: 20px;

        }

        .button-home,

        .button-login {

            padding: 10px 20px;

            background-color: rgb(145, 114, 36);

            color: white;

            border: none;

            cursor: pointer;

            margin: 0 10px;

        }

        .button-login {

            background-color: white;

            color: rgb(145, 114, 36);

            transition: background-color 0.3s, color 0.3s;

        }

        .button-login:hover {

            background-color: rgb(145, 114, 36);

            color: white;

        }

        .container-login1 {

            background-image: url("C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/background-login.jpg");

            text-align: center;

            padding: 20px;

            flex: 1;

            display: flex;

            justify-content: center;

            align-items: center;

            flex-direction: column;

        }

        .login-form {

            max-width: 400px;

            background-color: transparent;

            padding: 20px;

            border: 1px solid rgb(145, 114, 36);

            opacity: 0;

            transform: translateX(-100px);

            animation: slideInFromLeft 1s ease-in-out forwards;

        }

        @keyframes slideInFromLeft {

            to {

                opacity: 1;

                transform: translateX(0);

            }

        }

        .login-form select

         {

            width: 100%;

            padding: 10px;

            margin: 10px 0;

            box-sizing: border-box;

            border: 1px solid rgb(145, 114, 36);;

            border-radius: 5px;

            background-color: rgba(255, 255, 255, 0.1);

            color: rgb(145, 114, 36);

        }

        .login-form select option {

            color: rgb(145, 114, 36);

            background-color: rgba(255, 255, 255, 0.1);

        }

        .login-form input[type="text"],

        .login-form input[type="password"],

        .login-form input[type="email"],

        .login-form input[type="tel"],

        .login-form input[type="number"],

        .login-form input[type="date"]

         {

            width: 100%;

            padding: 10px;

            margin: 10px 0;

            box-sizing: border-box;

            border: 1px solid rgb(145, 114, 36);;

            border-radius: 5px;

            background-color: rgba(255, 255, 255, 0.1);

            color: rgb(145, 114, 36);

        }

        .input-group {

            display: flex;

            justify-content: space-between;

        }

        .login-form input::placeholder {

            color: rgba(145, 114, 36, 0.9);

        }

        .login-form img {

            height: 50px;

            width: auto;

            margin: 0 10px;

        }

        .login-form button {

            width: 100%;

            padding: 10px;

            background-color: rgb(145, 114, 36);

            color: white;

            border: none;

            border-radius: 5px;

            cursor: pointer;

        }

        .login-form button:hover {

            background-color: #8b5e2b;

        }

        .signup-link {

            display: block;

            margin-top: 20px;

            color: rgb(145, 114, 36);

            text-decoration: none;

        }

        .signup-link:hover {

            text-decoration: underline;

        }

        .footer {

            background-color: white;

            text-align: center;

            padding: 20px;

            margin-top: auto;

        }

        .footer img {

            height: 30px;

            width: auto;

            margin-right: 10px;

        }

        .footer a {

            color: seagreen;

            text-decoration: none;

            margin: 0 10px;

        }

        .footer a:hover {

            text-decoration: underline;

        }

        @media only screen and (max-width: 768px) {

            .container-navbar {

                height: auto;

                flex-direction: column;

                align-items: flex-start;

                padding: 20px;

            }

            .container-navbar img {

                margin: 10px 0;

            }

            .container-login {

                padding: 10px;

            }

            .button-home,

            .button-login {

                margin: 10px;

            }

            .container-login1 {

                padding: 10px;

            }

            .login-form {

                max-width: 100%;

            }

        }

    </style>

</head>

<body>

    <header>

        <div class="container-navbar">

            <a href="https://www.facebook.com/LuxPakistan/" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/facebook\_logo1.jpg" alt="Facebook"></a>

            <a href="https://twitter.com/i/flow/login?redirect\_after\_login=%2FLuxStylePk" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/twitter\_logo1.jpg" alt="Twitter"></a>

            <a href="https://www.instagram.com/luxstylepk/" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/instagram\_logo1.jpg" alt="Instagram"></a>

            <a href="https://www.youtube.com/channel/UCUjdhbKM8OuXNwbtpnLkt0A" target="\_blank"><img src="C:/Users/Aisha/Desktop/Semester 8/CS-4032 Web Programming/Assignments/Assignment 2/Web\_A2\_20F-0161\_6C/Images/youtube\_logo1.jpg" alt="Youtube"></a>

            <a href="Task2-landing(InputValidation).html"><img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo"></a>

        </div>

    </header>

    <div class="container-login">

        <button class="button-home" onclick="location.href='Task2-landing(InputValidation).html'">Home</button>

        <button class="button-login" onclick="location.href='Task2-login(InputValidation).html'">Login For Voting</button>

    </div>

    <div class="container-login1">

        <div class="login-form">

            <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo">

            <h2 style="color: rgb(145, 114, 36);font-weight: lighter;">Please Submit Your Details</h2>

            <form action="login\_process.php" method="post" onsubmit="return validateForm()">

                <div class="input-group">

                    <input type="text" name="username" id="username" placeholder="User Name \*" required>

                    <select name="gender" id="gender" required>

                        <option value="">Gender \*</option>

                        <option value="male">Male</option>

                        <option value="female">Female</option>

                        <option value="other">Other</option>

                    </select>

                </div>

                <div class="input-group">

                    <input type="password" name="password" id="password" placeholder="Password \*" required>

                    <input type="password" name="cnfpassword" id="cnfpassword" placeholder="Confirm Password \*" required>

                </div>

                <div class="input-group">

                    <input type="number" name="age" id="age" placeholder="Age \*" required>

                    <input type="date" name="birthdate" id="birthdate" placeholder="Birthdate \*" required>

                </div>

                <div class="input-group">

                    <input type="tel" name="phone" id="phone" placeholder="Phone Number \*" required>

                    <input type="email" name="email" id="email" placeholder="Email Address \*" required>

                </div>

                <div class="input-group">

                    <input type="text" name="zipcode" id="zipcode" placeholder="Zip Code \*" >

                    <input type="text" name="country" id="country" placeholder="Country \*" required>

                </div>

                <div class="input-group">

                    <input type="checkbox" id="terms" name="terms" required>

                    <label style="color: rgb(145, 114, 36);" for="terms">I agree to the terms and conditions</label>

                </div>

                <div class="input-group">

                    <input type="checkbox" id="subscribe" name="subscribe" required>

                    <label style="color: rgb(145, 114, 36);" for="subscribe"> I confirm I am 18 years old.\*</label>

                </div><br>

                <button type="submit">Sumbit</button>

            </form>

        </div>

    </div>

    <script>

        function validateForm() {

            var username = document.getElementById("username").value;

            var password = document.getElementById("password").value;

            var cnfpassword = document.getElementById("cnfpassword").value;

            var age = document.getElementById("age").value;

            var birthdate = document.getElementById("birthdate").value;

            var phone = document.getElementById("phone").value;

            var email = document.getElementById("email").value;

            var zipcode = document.getElementById("zipcode").value;

            var usernameRegex = /^\S+$/;

            var dateRegex = /^(?!0000)[0-9]{4}-(?:0[1-9]|1[0-2])-(?:0[1-9]|[1-2][0-9]|3[01])$/;

            var emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

            var zipcodeRegex = /^[0-9]{5}(?:-[0-9]{4})?$/;

            if (!usernameRegex.test(username))

            {

                alert("Invalid username! Username must not have any space.");

                return false;

            }

            if (password.length < 6)

            {

                alert('Invalid password! Password must be having atleast 6 characters.');

                return false;

            }

            if (password !== cnfpassword)

            {

                alert("Passwords are not matching! Please check them again.");

                return false;

            }

            if (isNaN(age) || age <= 0)

            {

                alert("Invalid age! Age must be a number");

                return false;

            }

            if (!dateRegex.test(birthdate))

            {

                alert("Invalid date format! Please use the format: yyyy-mm-dd.");

                return false;

            }

            if (phone.trim() === "")

            {

                alert("Invalid phone number! Phone number must not be empty.");

                return false;

             }

            if (!emailRegex.test(email))

            {

                alert("Invalid email format! Please use the format: abcd@gmail.com.");

                return false;

            }

            if (!zipcodeRegex.test(zipcode))

            {

                alert("Invalid zip code! Please use the format: 12345-6789.");

                return false;

            }

            return true;

        }

    </script>

    <footer>

        <div class="footer">

            <img src="C:\Users\Aisha\Desktop\Semester 8\CS-4032 Web Programming\Assignments\Assignment 2\Web\_A2\_20F-0161\_6C\Images\logo1.png" alt="Logo">

            <p>© 2024 LUX, UNILEVER PAKISTAN LIMITED. ALL RIGHTS RESERVED</p>

            <a href="#privacy-policy">Privacy Policy</a>

            <a href="#cookie-policy">Cookie Policy</a>

            <a href="#contact">Contact</a>

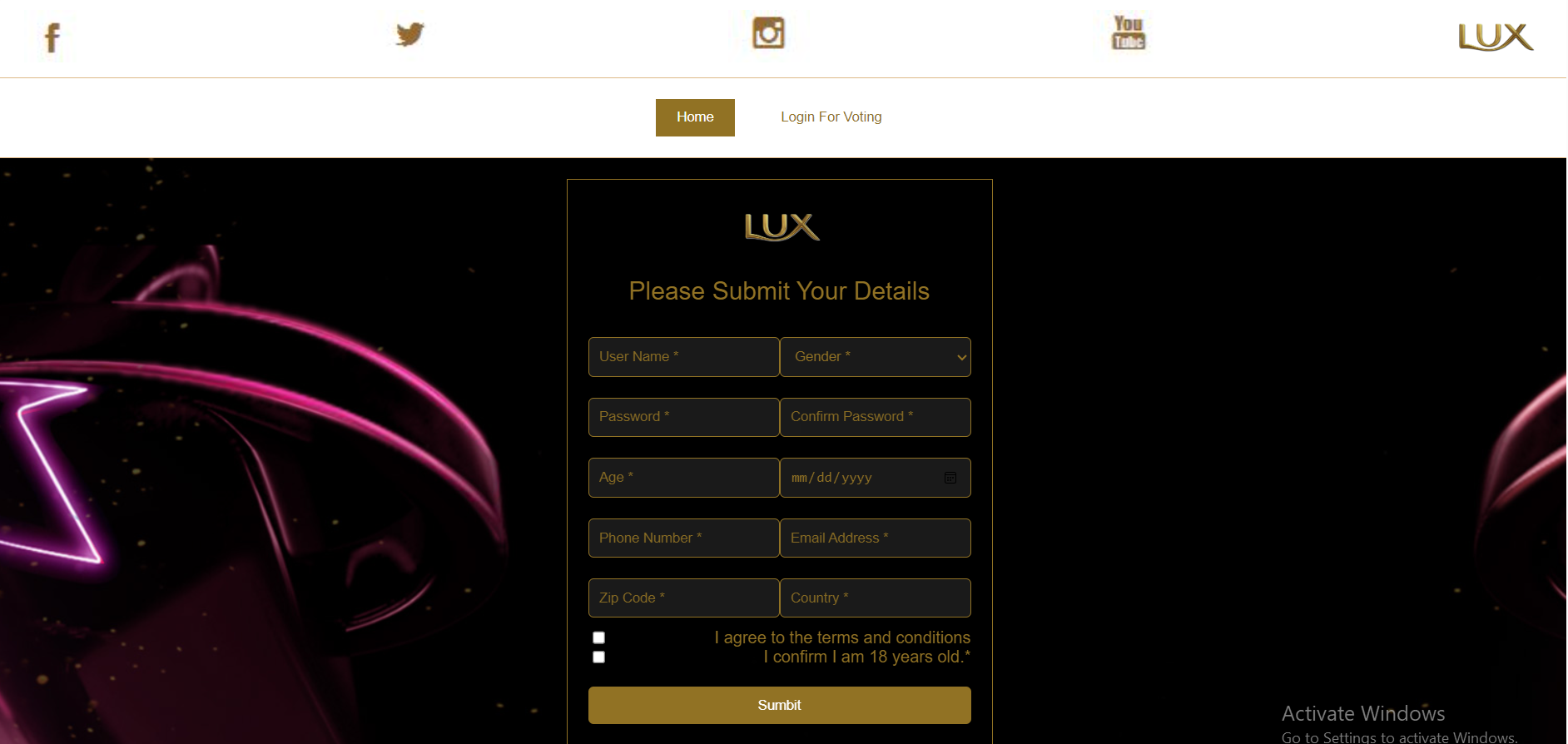
        </div>

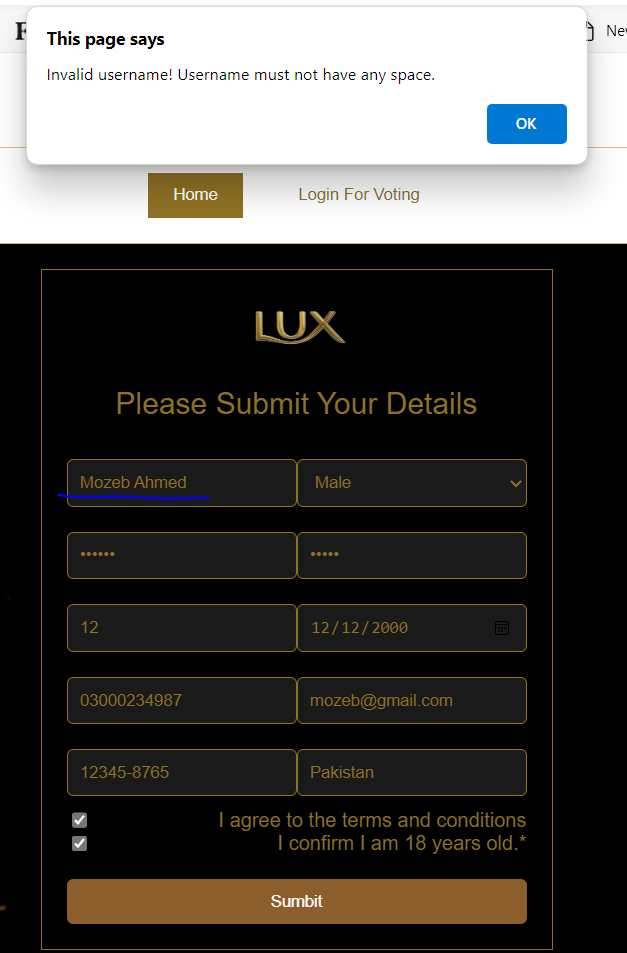
    </footer>

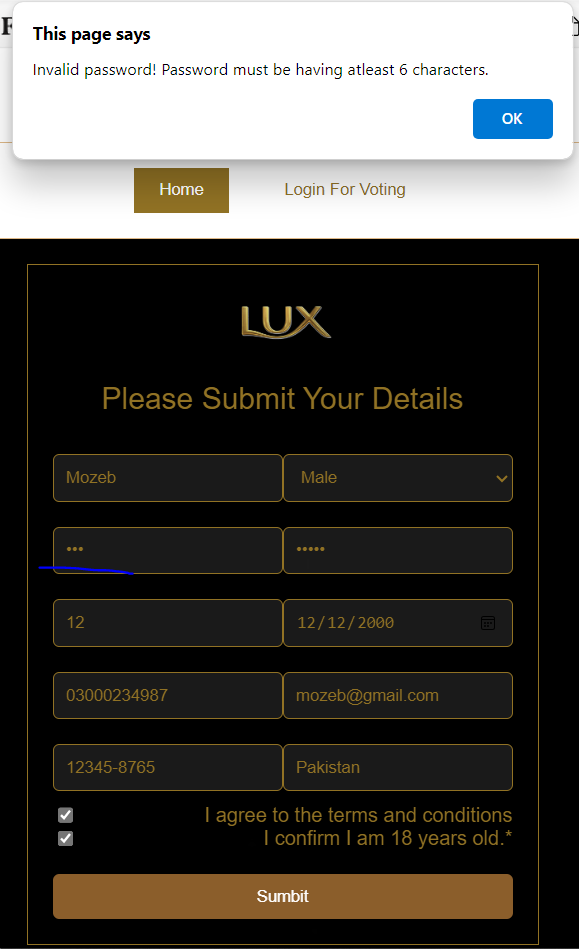
</body>

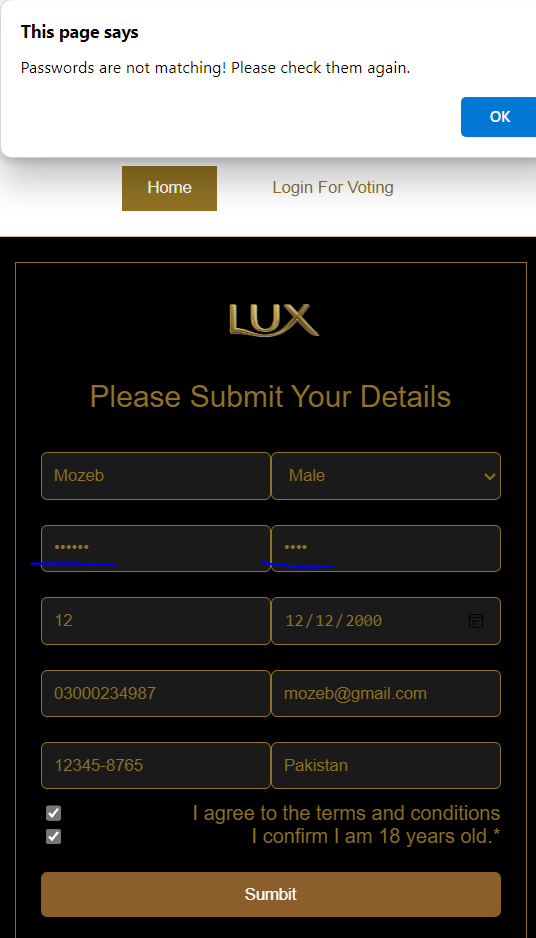
</html>

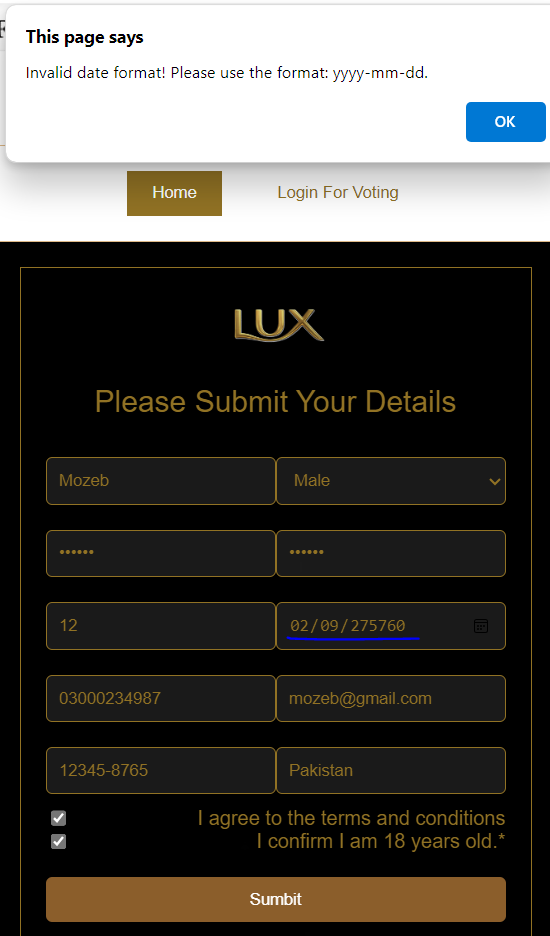
**Output:**













**Question 3: Bootstrap Practice**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Bootstrap</title>

    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css">

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

    <style>

        .header-div {

            background-color: #f0f0f0;

            text-align: center;

            padding: 20px;

            padding-bottom: 60px;

        }

        .sub-heading {

            text-align: left;

        }

        .alert {

            text-align: center;

            margin-top: 20px;

        }

    </style>

</head>

<body>

    <div class="container-fluid">

        <div class="row header-div">

            <div class="col-12">

                <br><h1>Welcome to our website!</h1>

                <h3>Look at this button! Wow, let's click on it!</h3>

                <button class="btn btn-primary btn-lg btn-block">Learn more</button>

            </div>

        </div>

        <div class="row sub-heading">

            <div class="col-12">

                <br><h4>Let's look at some random pictures! from <a href="http://lorempixel.com" target="\_blank" style="color: black;text-decoration: none;font-weight:400;">http://lorempixel.com</a></h4>

            </div>

        </div>

        <div class="row paragraph-div">

            <div class="col-md-4">

                <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed suscipit metus non orci rhoncus lobortis.

                    Nulla nec tellus eget libero cursus eleifend. Integer eget luctus neque. Aliquam erat volutpat.

                    Mauris non tellus velit. In hac habitasse platea dictumst. Nam id sapien vel tellus tempor feugiat.

                    Mauris non tellus velit. In hac habitasse platea dictumst. Integer eget luctus neque. Aliquam erat volutpat. </p>

                <img src="https://upload.wikimedia.org/wikipedia/commons/7/73/Ubuntu\_laptop.jpg" class="img-fluid" alt="Random Picture" style="width: 300px; height: 150px;margin-left: 20px;">

            </div>

            <div class="col-md-4">

                <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed suscipit metus non orci rhoncus lobortis.

                    Nulla nec tellus eget libero cursus eleifend. Integer eget luctus neque. Aliquam erat volutpat.

                    Mauris non tellus velit. In hac habitasse platea dictumst. Nam id sapien vel tellus tempor feugiat.

                    Mauris non tellus velit. In hac habitasse platea dictumst. Integer eget luctus neque. Aliquam erat volutpat. </p>

                <img src="https://upload.wikimedia.org/wikipedia/commons/7/73/Ubuntu\_laptop.jpg" class="img-fluid" alt="Random Picture" style="width: 300px; height: 150px;margin-left: 20px;">

            </div>

            <div class="col-md-4">

                <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed suscipit metus non orci rhoncus lobortis.

                    Nulla nec tellus eget libero cursus eleifend. Integer eget luctus neque. Aliquam erat volutpat.

                    Mauris non tellus velit. In hac habitasse platea dictumst. Nam id sapien vel tellus tempor feugiat.

                    Mauris non tellus velit. In hac habitasse platea dictumst. Integer eget luctus neque. Aliquam erat volutpat. </p>

                <img src="https://upload.wikimedia.org/wikipedia/commons/7/73/Ubuntu\_laptop.jpg" class="img-fluid" alt="Random Picture" style="width: 300px; height: 150px;margin-left: 20px;">

            </div>

        </div>

        <div class="row alert">

            <div class="col-12">

                <div class="alert alert-success" role="alert" style="margin-top: 0px;">

                    Thanks for Visiting!

                </div>

            </div>

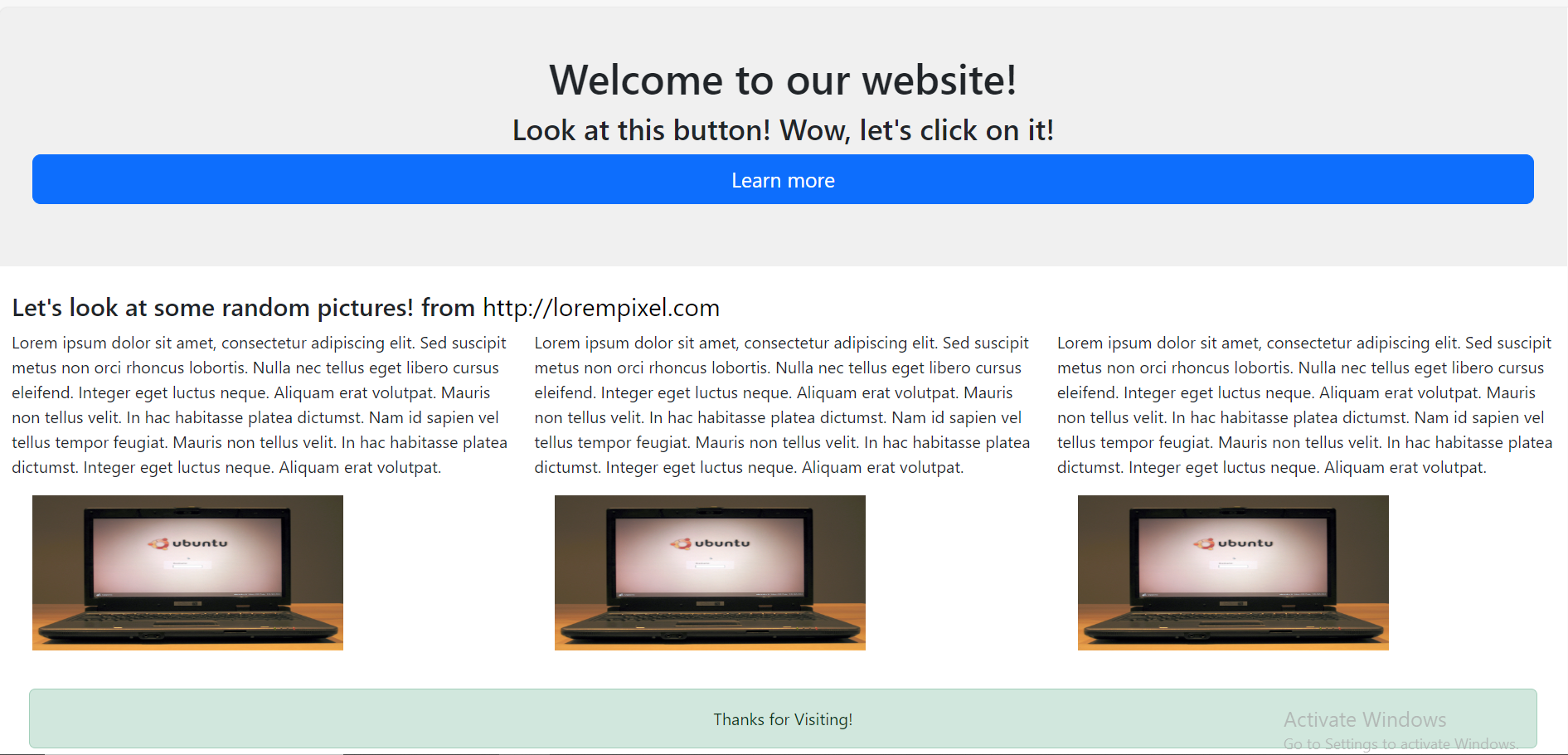
        </div>

    </div>

</body>

</html>

**Output:**



**Thank You**