Web Stack Development Lab Exercise-6

Submission Date:

19th August 2024

Submitted to:

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form.html

```
<html lang="en">
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bentley User Registration</title>
   k href="https://cdnjs.cloudflare.com/ajax/libs/tailwindcss/2.2.19/tailwind.min.css" rel="stylesheet"
k rel="stylesheet" href="form.css">
<body class="bg-gray-100 relative">
   <nav class="bg-black p-4 text-white relative z-10">
        <div class="max-w-6x1 mx-auto flex justify-between items-center">
           <a href="#" class="hover:underline">Home</a>
               <a href="#" class="hover:underline">About</a>
               <a href="#" class="hover:underline">Contact</a>
        <h2 class="text-2x1 font-bold mb-6 text-center text-black">User Registration Form for booking</h2>
        <div class="mb-6 text-center">
           <\!\!\text{img src="$\underline{\tt car.jpg}$" alt="Automobile" class="w-full h-auto rounded-lg"}\!>
       <form id="registrationForm" novalidate>
            <div class="mb-4"
               <label for="name" class="block text-gray-700">Enter your Name</label>
                <input type="text" id="name" name="name" class="w-full p-2 border rounded" required>
                <small id="nameError" class="text-red-600"></small>
```

Navigation Bar: A <nav> element is added to given a user-friendly approach to the website, it is styled using Tailwind CSS.

Form Container: The <div> with max-w-lg mx-auto p-6 bg-white rounded-lg shadow-md classes centers the form and gives it a white background with rounded corners and shadow.

Form Element: The <form> element has an id of registrationForm and novalidate to disable default browser validation and use custom JavaScript validation instead.

form.css

Validation Styles: input:valid and input:invalid pseudo-classes change the border color of inputs based on their validation.

Error Message Display: small elements are hidden by default (display: none), and only displayed (display: block) if the input is invalid using the input:invalid + small selector. The .error-visible class is used to make error messages visible when there is an error.

form.js

```
document.getElementById('registrationForm').addEventListener('submit', function(event) {
    event.preventDefault();
    validateForm();
document.getElementById('name').addEventListener('input', validateName);
document.getElementById('email').addEventListener('input', validateEmail);
document.getElementById('password').addEventListener('input', validatePassword);
document.getElementById('confirmPassword').addEventListener('input', validateConfirmPassword);
document.getElementById('dob').addEventListener('input', validateDOB);
function validateForm() {
    validateName();
    validateEmail();
    validatePassword();
    validateConfirmPassword();
    validateDOB();
    if (isFormValid()) {
         alert("Form submitted successfully!");
         document.getElementById('registrationForm').submit();
```

```
function validateName() {
   const nameInput = document.getElementById('name');
   const nameError = document.getElementById('nameError');
   const namePattern = /^[A-Za-z\s]{3,}$/;
   if (!namePattern.test(nameInput.value)) {
       nameError.textContent = "Name must be at least 3 characters long and contain only alphabets and spaces.";
       nameInput.classList.add('border-red-500');
       nameError.classList.add('error-visible');
   } else {
       nameError.classList.remove('error-visible');
       nameInput.classList.remove('border-red-500');
function validateEmail() {
   const emailInput = document.getElementById('email');
   const emailError = document.getElementById('emailError');
   const emailPattern = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
   if (!emailPattern.test(emailInput.value)) {
       emailError.textContent = "Please enter a valid email address.";
       emailInput.classList.add('border-red-500');
       emailError.classList.add('error-visible');
   } else {
       emailError.classList.remove('error-visible');
        emailInput.classList.remove('border-red-500');
```

```
function validatePassword() {
   const passwordInput = document.getElementById('password');
   const passwordError = document.getElementById('passwordError');
   const passwordPattern = /^(?=.*[A-Za-z])(?=.*\d)[A-Za-z\d]{8,}$/;
   if (!passwordPattern.test(passwordInput.value)) {
       passwordError.textContent = "Password must be at least 8 characters long and contain both letters and num
       passwordInput.classList.add('border-red-500');
       passwordError.classList.add('error-visible');
       passwordError.classList.remove('error-visible');
       passwordInput.classList.remove('border-red-500');
function validateConfirmPassword() {
   const confirmPasswordInput = document.getElementById('confirmPassword');
   const confirmPasswordError = document.getElementById('confirmPasswordError');
   const passwordInput = document.getElementById('password');
   if (confirmPasswordInput.value !== passwordInput.value) {
       confirmPasswordError.textContent = "Passwords do not match.";
       confirmPasswordInput.classList.add('border-red-500');
       confirmPasswordError.classList.add('error-visible');
   } else {
       confirmPasswordError.classList.remove('error-visible');
       confirmPasswordInput.classList.remove('border-red-500');
```

```
function validateDOB() {
          const dobInput = document.getElementById('dob');
          const dobError = document.getElementById('dobError');
          const ageInput = document.getElementById('age');
          const dob = new Date(dobInput.value);
          const today = new Date();
          const age = today.getFullYear() - dob.getFullYear();
          const monthDifference = today.getMonth() - dob.getMonth();
          const dayDifference = today.getDate() - dob.getDate();
          if (monthDifference < 0 || (monthDifference === 0 && dayDifference < 0)) {
              age--;
          ageInput.value = age;
          if (age < 18) {
              dobError.textContent = "You must be at least 18 years old.";
107
              dobInput.classList.add('border-red-500');
              dobError.classList.add('error-visible');
              document.getElementById('submitBtn').disabled = true;
110 🗸
          } else {
111
              dobError.classList.remove('error-visible');
              dobInput.classList.remove('border-red-500');
              document.getElementById('submitBtn').disabled = false;
115
```

```
116
      function isFormValid() {
          const nameInput = document.getElementById('name');
          const emailInput = document.getElementById('email');
          const passwordInput = document.getElementById('password');
          const confirmPasswordInput = document.getElementById('confirmPassword');
          const dobInput = document.getElementById('dob');
          return (
              nameInput.value.trim() !== '' &&
              emailInput.value.trim() !== '' &&
126
              passwordInput.value.trim() !== '' &&
127
              confirmPasswordInput.value.trim() !== '' &&
128
              dobInput.value.trim() !== '' &&
              !document.querySelector('.border-red-500')
          );
```

Form Submission Handling: Prevents default form submission with event.preventDefault() and calls validateForm() for custom validation.

validateName(): Ensures the name is at least 3 characters long and contains only letters and spaces and displays an error message if the input is invalid.

validateForm(): Calls all validation functions and successfully submits the form if all validations pass.

Email, Password, Confirm Password Validations: Ensure that format for the email id, password criteria is meet.

Date of Birth Validation: Calculates the age from the date of birth and checks if the user is at least 18 years of age, if not it disables the submit button.