**Assignment No:-66**

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Batch: - Delta - DCA (Java) 2024 Date:-28/8/2024

**Dynamic Form Validation**

**You are tasked with implementing dynamic form validation for a login form on a website. The**

**form has the following fields:**

**1. Username: Should not be empty and should contain only alphanumeric characters.**

**2. Password: Should be at least 8 characters long and contain a mix of uppercase and**

**lowercase letters, as well as numbers and special characters.**

**Write a JavaScript function validateForm() that performs the validation as the user types.**

**Display real-time feedback messages next to each field, indicating whether the input is valid**

**or not.**

<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <title>Validation Form</title>

    <style>

      body {

        height: 100vh;

        text-align: center;

        background-color: darkgoldenrod;

      }

      form {

        border: 2px solid black;

        padding: 20px;

        margin-top: 10%;

        box-shadow: 12px 20px 14px;

        width: 20%;

        margin-left: 40%;

        background-color: bisque;

      }

      label {

        font-size: 15px;

        font-weight: bold;

      }

      input {

        border: 2px;

        padding: 10px;

        border-radius: 10px;

      }

      button {

        border: none;

        padding: 15px;

        padding-left: 15px;

        padding-right: 15px;

        background-color: chocolate;

        color: white;

        cursor: pointer;

        border-radius: 10px;

      }

      #myspan {

        color: red;

        font-weight: bold;

      }

    </style>

  </head>

  <body>

    <form onsubmit="return myfun()">

      <h1>Login Form</h1>

      <label for="name">Name</label><br /><br />

      <input type="text" id="name" placeholder="Enter your name" /><br /><br />

      <label for="email">Email</label><br /><br />

      <input type="text" id="email" placeholder="Enter your email" /><br /><br />

      <span id="myspan"></span><br /><br />

      <label for="password">Password</label><br /><br />

      <input type="password" id="password" placeholder="Enter your password" required /><br /><br />

      <label for="cpassword">Confirm Password</label><br /><br />

      <input type="password" id="cpassword" placeholder="Confirm your password" required /><br /><br />

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

    </form>

    <script>

      function validatePassword(password) {

        let hasUppercase = false;

        let hasLowercase = false;

        let hasDigit = false;

        let hasSpecialChar = false;

        for (let i = 0; i < password.length; i++) {

          const char = password.charAt(i);

          if (char >= 'A' && char <= 'Z') {

            hasUppercase = true;

          } else if (char >= 'a' && char <= 'z') {

            hasLowercase = true;

          } else if (char >= '0' && char <= '9') {

            hasDigit = true;

          } else {

            hasSpecialChar = true;

          }

          if (hasUppercase && hasLowercase && hasDigit && hasSpecialChar) {

            return true;

          }

        }

        return false;

      }

      function myfun() {

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

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

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

        var cpass = document.getElementById("cpassword").value;

        if (name == null || name.trim() == "") {

          alert("Name should not be empty or null..!");

          return false;

        }

        let x = email.indexOf("@");

        let y = email.lastIndexOf(".");

        if (x < 1 || y < x + 2 || y + 2 >= email.length) {

          document.getElementById("myspan").innerHTML = "Enter a valid email address";

          return false;

        } else {

          document.getElementById("myspan").innerHTML = "";

        }

        if (!validatePassword(pass)) {

          alert("Password must be at least 8 characters long, contain at least one uppercase letter, one lowercase letter, one digit, and one special character.");

          return false;

        }

        if (pass !== cpass) {

          alert("Password and Confirm password do not match..!");

          return false;

        }

        return true;

      }

    </script>

  </body>

</html>

