CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY & RESEARCH
Department of Computer Science & Engineering

Subject Name: Web Development Framework

Semester: III

Subject Code: ITEU204

Academic year: 2025-26 [ODD]

Practical - 3

No.	Aim of the Practical
1.	Create a user registration page with frontend validation using HTML5 and JavaScript. **PROGRAM CODE :** **HTML:**

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

<head>

  <meta charset="UTF-8" />

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

  <title>Football Network - Register</title>

  <link rel="stylesheet" href="registration.css" />
</head>

<body>
```

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

  <h2>Join the Football Network</h2>

  <form id="registration-form" novalidate>

    <label for="fullname">Full Name</label>

    <input type="text" id="fullname" name="fullname" required />


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

    <input type="email" id="email" name="email" required />
```

```html
    <label for="password">Password</label>

    <input type="password" id="password" name="password" required />

    <meter max="4" id="password-strength-meter"></meter>
    <p id="strength-text"></p>


    <label for="team">Favorite Football Team</label>

    <input type="text" id="team" name="team" />


    <label for="country">Country</label>

    <select id="country" name="country" required>
      <option value="">-- Select Country --</option>

      <option value="india">India</option>

      <option value="england">England</option>

      <option value="brazil">Brazil</option>

      <option value="germany">Germany</option>

      <option value="argentina">Argentina</option>
```

```html
      </select>


      <label>

        <input type="checkbox" name="subscribe" />

        Subscribe to weekly match updates

      </label>


      <button type="submit">Register</button>
      <p>Already have an account? <a href="../login/login.html">Login
here</a>.</p>

    </form>
  </div>


  <script src="registration.js"></script>
</body>
</html>
```

JavaScript:

```javascript
document.addEventListener("DOMContentLoaded", () => {    const
form = document.getElementById("registration-form");
```

```javascript
  const password = document.getElementById("password");

  const meter = document.getElementById("password-strength-meter");

  const strengthText = document.getElementById("strength-text");


  const checkStrength = (pass) => {

    let strength = 0;

    if (pass.length >= 6) strength++;
```

```javascript
      if (/[A-Z]/.test(pass)) strength++;
      if (/[0-9]/.test(pass)) strength++;
      if (/[^A-Za-z0-9]/.test(pass)) strength++;
      return strength;    };



  password.addEventListener("input", () => {
    const strength = checkStrength(password.value);
    meter.value = strength;


    const texts = ["Very Weak", "Weak", "Moderate", "Strong", "Very
Strong"];
    strengthText.textContent = texts[strength];
    strengthText.style.color = ["red", "orange", "goldenrod", "green",
"darkgreen"][strength];
  });
```

```javascript
  form.addEventListener("submit", (e) => {
e.preventDefault();


    const fullname = document.getElementById("fullname").value.trim();
    const email = document.getElementById("email").value.trim();
    const passwordVal = password.value.trim();
    const country = document.getElementById("country").value;


    if (!fullname || !email || !passwordVal || !country) {
      alert("Please fill in all required fields.");
      return;
    }
```

```
    if (checkStrength(passwordVal) < 2) {

      alert("Please choose a stronger password.");
```
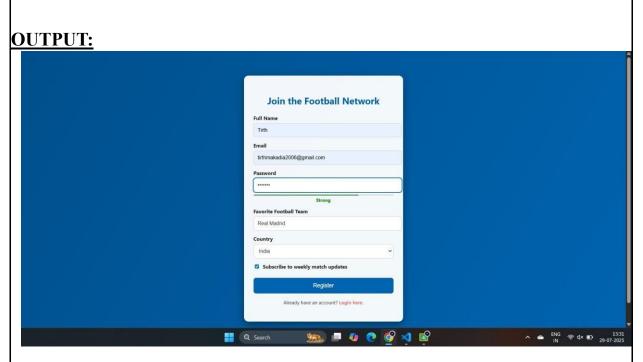
```
      return;

    }


    // Simulate saving to storage and redirect
localStorage.setItem("username", fullname);

    alert("Registration successful!");

    window.location.href = "../home-page.html";

  });

});
```

OUTPUT:

CONCLUSION:

In this task, a responsive user registration page was created using HTML5, CSS, and JavaScript, featuring frontend validation and a password strength meter. Proper input types ensure user-friendly data entry, while JavaScript provides real-time feedback and error handling. The form adapts to different screen sizes and enhances usability, preparing students to design secure, accessible, and responsive web forms.