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```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Interactive Form Validation</title>
</style>
  body {
    font-family: Arial, sans-serif;
    background: #f2f4f8;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
  }

  form {
    background: #fff;
    padding: 2rem;
    border-radius: 8px;
    box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
    width: 320px;
  }

  h2 {
    text-align: center;
    margin-bottom: 1rem;
  }

  .form-group {
    margin-bottom: 1rem;
    position: relative;
  }

  label {
    display: block;
    margin-bottom: 0.5rem;
    font-weight: 600;
  }

  input {
    width: 100%;
```

```
padding: 0.5rem;  
border: 2px solid #ccc;  
border-radius: 4px;  
transition: border-color 0.3s;  
}
```

```
input:focus {  
  border-color: #007bff;  
  outline: none;  
}
```

```
.error {  
  color: #e74c3c;  
  font-size: 0.85rem;  
  margin-top: 0.25rem;  
}
```

```
.success {  
  border-color: #2ecc71 !important;  
}
```

```
.error-border {  
  border-color: #e74c3c !important;  
}
```

```
button {  
  width: 100%;  
  padding: 0.7rem;  
  border: none;  
  background: #007bff;  
  color: white;  
  font-weight: 600;  
  border-radius: 4px;  
  cursor: pointer;  
  transition: background 0.3s;  
}
```

```
button:hover {  
  background: #0056b3;  
}
```

```
.valid-icon {  
  position: absolute;  
  right: 10px;
```

```

    top: 38px;
    font-size: 1.2rem;
}

.valid-icon.valid {
    color: #2ecc71;
}

.valid-icon.invalid {
    color: #e74c3c;
}
</style>
</head>
<body>
  <form id="signupForm" novalidate>
    <h2>Sign Up</h2>

    <div class="form-group">
      <label for="name">Full Name</label>
      <input type="text" id="name" required />
      <span class="valid-icon" id="nameIcon"></span>
      <div class="error" id="nameError"></div>
    </div>

    <div class="form-group">
      <label for="email">Email</label>
      <input type="email" id="email" required />
      <span class="valid-icon" id="emailIcon"></span>
      <div class="error" id="emailError"></div>
    </div>

    <div class="form-group">
      <label for="password">Password</label>
      <input type="password" id="password" required />
      <span class="valid-icon" id="passwordIcon"></span>
      <div class="error" id="passwordError"></div>
    </div>

    <div class="form-group">
      <label for="confirmPassword">Confirm Password</label>
      <input type="password" id="confirmPassword" required />
      <span class="valid-icon" id="confirmIcon"></span>
      <div class="error" id="confirmError"></div>
    </div>
  </form>
</body>
</html>

```

```
<button type="submit">Register</button>
</form>
```

```
<script>
const form = document.getElementById('signupForm');
const nameInput = document.getElementById('name');
const emailInput = document.getElementById('email');
const passwordInput = document.getElementById('password');
const confirmInput = document.getElementById('confirmPassword');
```

```
const showError = (input, message, iconId) => {
  const errorEl = document.getElementById(input.id + 'Error');
  const iconEl = document.getElementById(iconId);
  input.classList.add('error-border');
  input.classList.remove('success');
  iconEl.textContent = '✗';
  iconEl.className = 'valid-icon invalid';
  errorEl.textContent = message;
};
```

```
const showSuccess = (input, iconId) => {
  const errorEl = document.getElementById(input.id + 'Error');
  const iconEl = document.getElementById(iconId);
  input.classList.add('success');
  input.classList.remove('error-border');
  iconEl.textContent = '✓';
  iconEl.className = 'valid-icon valid';
  errorEl.textContent = "";
};
```

```
const validateName = () => {
  const name = nameInput.value.trim();
  if (name.length < 3) {
    showError(nameInput, 'Name must be at least 3 characters', 'nameIcon');
    return false;
  } else {
    showSuccess(nameInput, 'nameIcon');
    return true;
  }
};
```

```
const validateEmail = () => {
  const email = emailInput.value.trim();
```

```

const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if (!regex.test(email)) {
  showError(emailInput, 'Enter a valid email address', 'emailIcon');
  return false;
} else {
  showSuccess(emailInput, 'emailIcon');
  return true;
}
};

const validatePassword = () => {
  const password = passwordInput.value.trim();
  if (password.length < 6) {
    showError(passwordInput, 'Password must be at least 6 characters', 'passwordIcon');
    return false;
  } else {
    showSuccess(passwordInput, 'passwordIcon');
    return true;
  }
};

const validateConfirmPassword = () => {
  if (confirmInput.value !== passwordInput.value || confirmInput.value === "") {
    showError(confirmInput, 'Passwords do not match', 'confirmIcon');
    return false;
  } else {
    showSuccess(confirmInput, 'confirmIcon');
    return true;
  }
};

form.addEventListener('submit', (e) => {
  e.preventDefault();
  const isValid =
    validateName() &&
    validateEmail() &&
    validatePassword() &&
    validateConfirmPassword();
  if (isValid) {
    alert('Registration successful!');
    form.reset();
    document.querySelectorAll('.valid-icon').forEach(icon => icon.textContent = "");
    document.querySelectorAll('input').forEach(input => input.classList.remove('success'));
  }
});

```

```
});
```

```
// Real-time validation
```

```
nameInput.addEventListener('input', validateName);
```

```
emailInput.addEventListener('input', validateEmail);
```

```
passwordInput.addEventListener('input', validatePassword);
```

```
confirmInput.addEventListener('input', validateConfirmPassword);
```

```
</script>
```

```
</body>
```

```
</html>
```

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