<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Interactive Form with Validation</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f4f4f4;

}

.container {

width: 50%;

margin: 50px auto;

background-color: #fff;

padding: 20px;

border-radius: 10px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

transition: transform 0.3s ease;

}

.input-group {

margin-bottom: 20px;

}

label {

display: block;

margin-bottom: 5px;

}

input[type="text"],

input[type="email"],

input[type="password"] {

width: 100%;

padding: 10px;

border: 1px solid #ccc;

border-radius: 5px;

transition: border-color 0.3s ease;

}

input[type="text"]:focus,

input[type="email"]:focus,

input[type="password"]:focus {

outline: none;

border-color: #3498db;

}

.error-message {

color: #e74c3c;

font-size: 14px;

display: none;

}

.error {

border-color: #e74c3c !important;

}

button {

padding: 10px 20px;

background-color: #3498db;

color: #fff;

border: none;

border-radius: 5px;

cursor: pointer;

}

button:hover {

background-color: #2980b9;

}

</style>

</head>

<body>

<div class="container">

<h2>Registration Form</h2>

<form id="registration-form" action="#" method="post">

<div class="input-group">

<label for="username">Username:</label>

<input type="text" id="username" name="username">

<div class="error-message" id="username-error">Username is required.</div>

</div>

<div class="input-group">

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

<input type="email" id="email" name="email">

<div class="error-message" id="email-error">Email is invalid.</div>

</div>

<div class="input-group">

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

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

<div class="error-message" id="password-error">Password must be at least 6 characters.</div>

</div>

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

</form>

</div>

<script>

const form = document.getElementById('registration-form');

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

const emailInput = document.getElementById('email');

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

form.addEventListener('submit', function (event) {

event.preventDefault();

if (validateForm()) {

alert('Form submitted successfully!');

form.reset();

}

});

function validateForm() {

let isValid = true;

if (usernameInput.value.trim() === '') {

setError(usernameInput, 'Username is required.');

isValid = false;

} else {

setSuccess(usernameInput);

}

if (!validateEmail(emailInput.value)) {

setError(emailInput, 'Email is invalid.');

isValid = false;

} else {

setSuccess(emailInput);

}

if (passwordInput.value.length < 6) {

setError(passwordInput, 'Password must be at least 6 characters.');

isValid = false;

} else {

setSuccess(passwordInput);

}

return isValid;

}

function setError(input, message) {

const errorElement = input.nextElementSibling;

errorElement.innerText = message;

errorElement.style.display = 'block';

input.classList.add('error');

}

function setSuccess(input) {

const errorElement = input.nextElementSibling;

errorElement.style.display = 'none';

input.classList.remove('error');

}

function validateEmail(email) {

const re = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;

return re.test(email);

}

</script>

</body>

</html>