<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>User Registration Form</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 20px;

padding: 20px;

}

form {

width: 300px;

margin: auto;

padding: 20px;

border: 1px solid #ccc;

border-radius: 5px;

}

label {

display: block;

margin-bottom: 10px;

}

input[type="text"],

input[type="password"],

input[type="email"],

input[type="submit"] {

width: 100%;

padding: 8px;

margin-bottom: 10px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

input[type="submit"] {

background-color: #4CAF50;

color: white;

border: none;

cursor: pointer;

}

input[type="submit"]:hover {

background-color: #45a049;

}

.error {

color: red;

font-size: 0.8em;

margin-top: 5px;

}

</style>

</head>

<body>

<form id="registrationForm" onsubmit="return validateForm()">

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

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

<div id="usernameError" class="error"></div>

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

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

<div id="passwordError" class="error"></div>

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

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

<div id="emailError" class="error"></div>

<input type="submit" value="Submit">

</form>

<script>

// Function to validate the form inputs

function validateForm() {

// Fetching input values

var username = document.getElementById('username').value.trim();

var password = document.getElementById('password').value.trim();

var email = document.getElementById('email').value.trim();

// Validating username

if (username === '') {

document.getElementById('usernameError').innerText = 'Username is invalid.';

return false;

} else if (username.length > 50) {

document.getElementById('usernameError').innerText = 'Username should not exceed 50 characters.';

return false;

} else {

document.getElementById('usernameError').innerText = '';

}

// Validating password

if (password.length < 8) {

document.getElementById('passwordError').innerText = 'Password is invalid!.';

return false;

} else if (!password.match(/[!@#$%^&\*]/)) {

document.getElementById('passwordError').innerText = 'Password should contain at least one special symbol (!@#$%^&\*).';

return false;

} else if (!password.match(/\d/)) {

document.getElementById('passwordError').innerText = 'Password should contain at least one number.';

return false;

} else if (!password.match(/[a-z]/) || !password.match(/[A-Z]/)) {

document.getElementById('passwordError').innerText = 'Password should contain at least one uppercase and one lowercase letter.';

return false;

} else {

document.getElementById('passwordError').innerText = '';

}

// Validating email

if (!email.includes('@')) {

document.getElementById('emailError').innerText = 'Email should contain "@" symbol.';

return false;

} else {

var parts = email.split('@');

if (parts.length !== 2 || parts[0].length === 0 || parts[1].length === 0) {

document.getElementById('emailError').innerText = 'Invalid email format.';

return false;

} else if (!parts[1].match(/^[a-zA-Z]+([\-\.]?[a-zA-Z]+)\*\.[a-zA-Z]{2,}$/)) {

document.getElementById('emailError').innerText = 'Invalid domain in email.';

return false;

} else {

document.getElementById('emailError').innerText = '';

}

}

// If all validations pass

alert('Form validated successfully!');

return true;

}

</script>

</body>

</html>