

## Coding

```
<!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>


  <!-- Internal CSS -->

  <style>

    * {

      box-sizing: border-box;

      font-family: 'Poppins', sans-serif;

    }


    body {

      background: #f2f4f7;

      display: flex;

      justify-content: center;

      align-items: center;

      height: 100vh;

    }


    .container {

      background: white;
```

```
padding: 25px 30px;
border-radius: 10px;
box-shadow: 0 5px 10px rgba(0,0,0,0.1);
width: 350px;
}
```

```
h2 {
  text-align: center;
  color: #333;
  margin-bottom: 20px;
}
```

```
.form-group {
  margin-bottom: 18px;
  position: relative;
}
```

```
label {
  display: block;
  margin-bottom: 5px;
  color: #333;
  font-weight: 500;
}
```

```
input {
  width: 100%;
  padding: 10px;
  border: 2px solid #ccc;
```

```
border-radius: 5px;
outline: none;
font-size: 14px;
transition: border-color 0.3s ease;
}
```

```
input:focus {
  border-color: #007bff;
}
```

```
.error {
  color: red;
  font-size: 12px;
  margin-top: 3px;
  display: block;
}
```

```
.success input {
  border-color: #28a745;
}
```

```
.error-field input {
  border-color: #dc3545;
}
```

```
button {
  width: 100%;
  background: #007bff;
```

```
color: white;
border: none;
padding: 10px;
font-size: 16px;
border-radius: 5px;
cursor: pointer;
transition: background 0.3s ease;
}
```

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

```
</style>
```

```
</head>
```

```
<body>
```

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

```
<h2>Interactive Form Validation</h2>
```

```
<form id="signupForm" novalidate>
```

```
<div class="form-group">
```

```
<label>Full Name</label>
```

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

```
<small class="error"></small>
```

```
</div>
```

```
<div class="form-group">
```

```
<label>Email</label>
```

```
<input type="email" id="email" placeholder="Enter your email">
<small class="error"></small>
</div>

<div class="form-group">
  <label>Password</label>
  <input type="password" id="password" placeholder="Enter password">
  <small class="error"></small>
</div>

<div class="form-group">
  <label>Confirm Password</label>
  <input type="password" id="confirmPassword" placeholder="Re-enter password">
  <small class="error"></small>
</div>

<div class="form-group">
  <label>Phone Number</label>
  <input type="text" id="phone" placeholder="Enter 10-digit number">
  <small class="error"></small>
</div>

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

<!-- JavaScript -->
<script>
```

```
const form = document.getElementById('signupForm');
const nameField = document.getElementById('name');
const emailField = document.getElementById('email');
const passwordField = document.getElementById('password');
const confirmPasswordField = document.getElementById('confirmPassword');
const phoneField = document.getElementById('phone');
```

```
form.addEventListener('submit', (e) => {
  e.preventDefault();
  validateForm();
});
```

```
function validateForm() {
  validateName();
  validateEmail();
  validatePassword();
  validateConfirmPassword();
  validatePhone();
}
```

```
function showError(input, message) {
  const formGroup = input.parentElement;
  formGroup.className = 'form-group error-field';
  const small = formGroup.querySelector('small');
  small.textContent = message;
}
```

```
function showSuccess(input) {
```

```
const formGroup = input.parentElement;

formGroup.className = 'form-group success';

const small = formGroup.querySelector('small');

small.textContent = '';

}
```

// Validation Functions

```
function validateName() {

  const nameValue = nameField.value.trim();

  if (nameValue === '') {

    showError(nameField, 'Name is required');

  } else if (!/^[A-Za-z\s]+$/ .test(nameValue)) {

    showError(nameField, 'Name can contain only letters');

  } else {

    showSuccess(nameField);

  }

}
```

```
function validateEmail() {

  const emailValue = emailField.value.trim();

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

  if (emailValue === '') {

    showError(emailField, 'Email is required');

  } else if (!emailRegex.test(emailValue)) {

    showError(emailField, 'Invalid email format');

  } else {

    showSuccess(emailField);

  }

}
```

```
}
```

```
function validatePassword() {  
  const passwordValue = passwordField.value.trim();  
  if (passwordValue === '') {  
    showError(passwordField, 'Password is required');  
  } else if (passwordValue.length < 8) {  
    showError(passwordField, 'Password must be at least 8 characters');  
  } else if (!/[A-Z]/.test(passwordValue) || ![a-z]/.test(passwordValue) || ![0-9]/.test(passwordValue) || !/[@$!%*?&]/.test(passwordValue)) {  
    showError(passwordField, 'Use upper, lower, number & special char');  
  } else {  
    showSuccess(passwordField);  
  }  
}
```

```
function validateConfirmPassword() {  
  const passwordValue = passwordField.value.trim();  
  const confirmValue = confirmPasswordField.value.trim();  
  if (confirmValue === '') {  
    showError(confirmPasswordField, 'Please confirm your password');  
  } else if (passwordValue !== confirmValue) {  
    showError(confirmPasswordField, 'Passwords do not match');  
  } else {  
    showSuccess(confirmPasswordField);  
  }  
}
```



```
function validatePhone() {  
  const phoneValue = phoneField.value.trim();  
  if (phoneValue === '') {  
    showError(phoneField, 'Phone number is required');  
  } else if (!/^[0-9]{10}$/.test(phoneValue)) {  
    showError(phoneField, 'Enter valid 10-digit number');  
  } else {  
    showSuccess(phoneField);  
  }  
}  
</script>
```

```
</body>
```

```
</html>
```