Coding

```html
<!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;
```

```css
    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;
```

```css
    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>
```

```html
    <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>
```

```javascript
    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
```

```javascript
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>
```