

## Create a form by using Regex expression

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Regex Validation Form</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
    }

    .form-container {
      background: white;
      padding: 20px;
      border-radius: 8px;
      box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
      width: 300px;
    }

    h1 {
      text-align: center;
      margin-bottom: 20px;
    }

    label {
      display: block;
      margin: 10px 0 5px 0;
    }

    input {
      width: 100%;
      padding: 8px;
      margin-bottom: 10px;
      border: 1px solid #ccc;
      border-radius: 4px;
    }

    button {
      width: 100%;
      padding: 10px;
```

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    background: #007bff;
    color: white;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

button:hover {
    background: #0056b3;
}

.error {
    color: red;
    font-size: 12px;
}
</style>
</head>
<body>
    <div class="form-container">
        <h1>Signup Form</h1>
        <form id="signupForm">
            <label for="name">Name:</label>
            <input type="text" id="name" name="name" placeholder="Enter your full
name" required>
            <span class="error" id="nameError"></span>

            <label for="email">Email:</label>
            <input type="email" id="email" name="email" placeholder="Enter your
email" required>
            <span class="error" id="emailError"></span>

            <label for="password">Password:</label>
            <input type="password" id="password" name="password" placeholder="Enter
a strong password" required>
            <span class="error" id="passwordError"></span>

            <label for="phone">Phone:</label>
            <input type="tel" id="phone" name="phone" placeholder="Enter your phone
number" required>
            <span class="error" id="phoneError"></span>

            <button type="submit">Submit</button>
        </form>
    </div>
    <script>
        document.getElementById("signupForm").addEventListener("submit", function
(event) {
            event.preventDefault();

```

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// Clear previous error messages
document.querySelectorAll(".error").forEach((error) => (error.textContent = ""));

let isValid = true;

// Name validation (Only alphabets and spaces)
const name = document.getElementById("name").value;
const nameRegex = /^[a-zA-Z\s]+$/;
if (!nameRegex.test(name)) {
    document.getElementById("nameError").textContent = "Name must contain only letters and spaces.";
    isValid = false;
}

// Email validation
const email = document.getElementById("email").value;
const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
if (!emailRegex.test(email)) {
    document.getElementById("emailError").textContent = "Invalid email format.";
    isValid = false;
}

// Password validation (Minimum 8 characters, at least one letter and one number)
const password = document.getElementById("password").value;
const passwordRegex = /^(?=.*[A-Za-z])(?=.*\d)[A-Za-z\d]{8,}$/;
if (!passwordRegex.test(password)) {
    document.getElementById("passwordError").textContent = "Password must be at least 8 characters long and include one letter and one number.";
    isValid = false;
}

// Phone number validation (10 digits)
const phone = document.getElementById("phone").value;
const phoneRegex = /^\d{10}$/;
if (!phoneRegex.test(phone)) {
    document.getElementById("phoneError").textContent = "Phone number must be 10 digits.";
    isValid = false;
}

// If all validations pass, submit the form
if (isValid) {
    alert("Form submitted successfully!");
    document.getElementById("signupForm").reset();
}

```

```
}  
});  
</script>  
</body>  
</html>
```