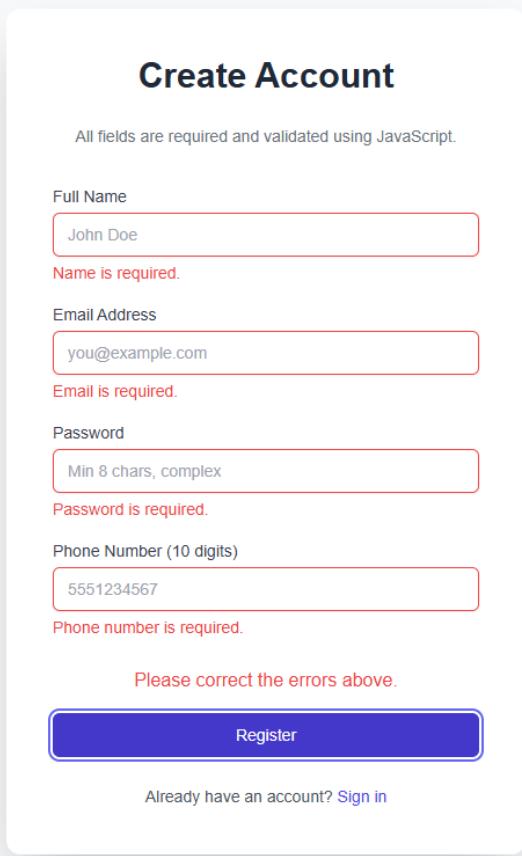


Validation Using JavaScript: Kindly prepare your Validation code on 2 forms and add code and screen shot of output in given format

1. JS Validation: (minimum 5(any 5 logic) screenshot of JS Validation)



The screenshot shows a 'Create Account' form with five input fields, each with a validation error message below it. The fields are: Full Name (containing 'John Doe'), Email Address (containing 'you@example.com'), Password (containing 'Min 8 chars, complex'), and Phone Number (containing '5551234567'). A general error message 'Please correct the errors above.' is centered at the bottom, and a 'Register' button is at the bottom right. Below the button is a link to 'Sign in'.

Create Account

All fields are required and validated using JavaScript.

Full Name

John Doe

Name is required.

Email Address

you@example.com

Email is required.

Password

Min 8 chars, complex

Password is required.

Phone Number (10 digits)

5551234567

Phone number is required.

Please correct the errors above.

Register

Already have an account? [Sign in](#)

Fig 1.1 JS Validation: All fields are required

Create Account

All fields are required and validated using JavaScript.

Full Name

Email Address

Password
 Password must be at least 8 characters long.

Phone Number (10 digits)

Please correct the errors above.

[Register](#)

Already have an account? [Sign in](#)

Fig 1.2 JS Validation: Password Length

Create Account

All fields are required and validated using JavaScript.

Full Name

Email Address
 Invalid email format.

Password

Phone Number (10 digits)

Please correct the errors above.

[Register](#)

Already have an account? [Sign in](#)

Fig 1.3 JS Validation: Email Pattern

Create Account

All fields are required and validated using JavaScript.

Full Name

Email Address

Password

Password must contain: 1 uppercase, 1 lowercase, 1 digit, and 1 special character (@\$!%*?&).

Phone Number (10 digits)

Please correct the errors above.

Register

Already have an account? [Sign in](#)

Fig 1.4 JS Validation: Password Pattern

Create Account

All fields are required and validated using JavaScript.

Full Name

Email Address

Password

Phone Number (10 digits)
 Phone number must be exactly 10 digits (e.g., 5551234567).
Please correct the errors above.

Register

Already have an account? [Sign in](#)

Fig 1.5 JS Validation: Phone number pattern

Form1&2 code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```

<title>User Registration with JavaScript Validation</title>
<script src="https://cdn.tailwindcss.com"></script>
<style>
body {
  font-family: 'Inter', sans-serif;
  background-color: #f7f9fb;
}
.error-message {
  color: #ef4444;
  font-size: 0.875rem;
  margin-top: 0.25rem;
  height: 1.25rem;
}
</style>
<script>
function clearErrors() {
  document.querySelectorAll('.error-message').forEach(el => {
    el.textContent = "";
  });
  document.querySelectorAll('input').forEach(input => {
    input.classList.remove('border-red-500');
  });
}

function validateForm(event) {
  event.preventDefault();

  clearErrors();
  let isValid = true;

  const name = document.getElementById('name').value.trim();
  const email = document.getElementById('email').value.trim();
  const password = document.getElementById('password').value;
  const phone = document.getElementById('phone').value.trim();

  function showError(fieldId, message) {
    document.getElementById(fieldId + '-error').textContent = message;
    document.getElementById(fieldId).classList.add('border-red-500');
    isValid = false;
  }
}

```

```

if (name === "") {
    showError('name', 'Name is required.');
}
if (email === "") {
    showError('email', 'Email is required.');
}
if (password === "") {
    showError('password', 'Password is required.');
}
if (phone === "") {
    showError('phone', 'Phone number is required.');
}

const emailPattern = /^[^@\s]+@[^\s]+\.[^\s]+$/;
if (email !== "" && !emailPattern.test(email)) {
    showError('email', 'Invalid email format.');
}

const minLength = 8;
const passwordPattern = /^(?=.*[a-z])(?=.*[A-Z])(?=.*\d)(?=.*[@$!%?&])[A-Za-z\d@$!%?&]{8,}$/;

if (password !== "" && password.length < minLength) {
    showError('password', 'Password must be at least ${minLength} characters long.');
} else if (password !== "" && !passwordPattern.test(password)) {
    showError('password', 'Password must contain: 1 uppercase, 1 lowercase, 1 digit, and 1 special character (@$!%*?&).');
}

const phonePattern = /^\d{10}$/;
if (phone !== "" && !phonePattern.test(phone)) {
    showError('phone', 'Phone number must be exactly 10 digits (e.g., 5551234567).');
}

if (isValid) {
    document.getElementById('form-message').textContent = 'Registration successful! Form data is valid.';
    document.getElementById('form-message').classList.remove('text-red-500');
    document.getElementById('form-message').classList.add('text-green-600');
}

```

```

        console.log('Form is valid and ready to submit.');
        document.getElementById('password').value = "";
    } else {
        document.getElementById('form-message').textContent = 'Please correct the
errors above.';
        document.getElementById('form-message').classList.remove('text-green-
600');
        document.getElementById('form-message').classList.add('text-red-500');
    }

    return isValid;
}

window.onload = () => {
    const form = document.getElementById('registration-form');
    if (form) {
        form.addEventListener('submit', validateForm);
    }
};

</script>
</head>
<body class="min-h-screen flex items-center justify-center p-4">
    <div class="w-full max-w-md bg-white p-8 md:p-10 rounded-xl shadow-2xl">
        <h1 class="text-3xl font-bold text-gray-800 text-center mb-6">Create
Account</h1>
        <p class="text-center text-sm text-gray-500 mb-8">All fields are required and
validated using JavaScript.</p>

        <form id="registration-form" onsubmit="validateForm(event)" novalidate>

            <div class="mb-4">
                <label for="name" class="block text-sm font-medium text-gray-700">Full
Name</label>
                <input type="text" id="name" name="name" placeholder="John Doe"
class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
sm:text-sm">
                <p id="name-error" class="error-message"></p>
            </div>
        </form>
    </div>
</body>

```

```

<div class="mb-4">
    <label for="email" class="block text-sm font-medium text-gray-700">Email
    Address</label>
    <input type="email" id="email" name="email"
    placeholder="you@example.com"
        class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
        shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
        sm:text-sm">
        <p id="email-error" class="error-message"></p>
    </div>

    <div class="mb-4">
        <label for="password" class="block text-sm font-medium text-gray-
        700">Password</label>
        <input type="password" id="password" name="password" placeholder="Min
        8 chars, complex"
            class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
            shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
            sm:text-sm">
            <p id="password-error" class="error-message">
                <span class="text-xs text-gray-400">Hint: Must include A-Z, a-z, 0-9, and a
                special character.</span>
            </p>
        </div>

        <div class="mb-6">
            <label for="phone" class="block text-sm font-medium text-gray-700">Phone
            Number (10 digits)</label>
            <input type="tel" id="phone" name="phone" placeholder="5551234567"
                class="mt-1 block w-full px-3 py-2 border border-gray-300 rounded-md
                shadow-sm focus:outline-none focus:ring-indigo-500 focus:border-indigo-500
                sm:text-sm">
                <p id="phone-error" class="error-message"></p>
            </div>

            <p id="form-message" class="text-center font-medium mb-4 h-6"></p>

            <button type="submit"
                class="w-full flex justify-center py-2 px-4 border border-transparent
                rounded-md shadow-sm text-sm font-medium text-white bg-indigo-600 hover:bg-
                indigo-700 focus:outline-none focus:ring-2 focus:ring-offset-2 focus:ring-indigo-500

```

```
transition duration-150 ease-in-out">
    Register
  </button>
</form>

<p class="mt-6 text-center text-sm text-gray-600">
  Already have an account?
  <a href="#" class="font-medium text-indigo-600 hover:text-indigo-500">Sign
in</a>
</p>
</div>
</body>
</html>
```