<!DOCTYPE html>  
<html lang="zh">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>用户登录注册</title>  
    <style>  
        body {  
            font-family: Arial, sans-serif;  
            background-color: #f4f4f4;  
            display: flex;  
            justify-content: center;  
            align-items: center;  
            height: 100vh;  
            margin: 0;  
        }  
        .form-container {  
            background: #fff;  
            padding: 20px;  
            border-radius: 5px;  
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
            width: 300px;  
        }  
        .form-container h2 {  
            text-align: center;  
        }  
        .error {  
            color: red;  
            font-size: 12px;  
        }  
    </style>  
</head>  
<body>  
  
    <div class="form-container" id="form-container">  
        <div id="register-form">  
            <h2>注册</h2>  
            <form onsubmit="return validateRegisterForm();">  
                <input type="text" name="username" placeholder="用户名" required>  
                <input type="password" name="password" placeholder="密码" required>  
                <input type="email" name="email" placeholder="邮箱" required>  
                <input type="password" name="confirm-password" placeholder="确认密码" required>  
                <small class="error" id="register-error"></small>  
                <button type="submit">注册</button>  
            </form>  
            <p>已经有账号？<a href="#" onclick="showLoginForm();">登录</a></p>  
        </div>  
  
        <div id="login-form" style="display: none;">  
            <h2>登录</h2>  
            <form onsubmit="return validateLoginForm();">  
                <input type="text" name="username" placeholder="用户名" required>  
                <input type="password" name="password" placeholder="密码" required>  
                <small class="error" id="login-error"></small>  
                <button type="submit">登录</button>  
            </form>  
            <p>还没有账号？<a href="#" onclick="showRegisterForm();">注册</a></p>  
        </div>  
    </div>  
  
    <script>  
        function showRegisterForm() {  
            document.getElementById('register-form').style.display = 'block';  
            document.getElementById('login-form').style.display = 'none';  
        }  
  
        function showLoginForm() {  
            document.getElementById('register-form').style.display = 'none';  
            document.getElementById('login-form').style.display = 'block';  
        }  
  
        function validateRegisterForm() {  
            let username = document.forms[0]["username"].value;  
            let password = document.forms[0]["password"].value;  
            let confirmPassword = document.forms[0]["confirm-password"].value;  
            let email = document.forms[0]["email"].value;  
  
            let emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;  
            let errorElement = document.getElementById('register-error');  
  
            if (!emailPattern.test(email)) {  
                errorElement.textContent = '请填写有效的邮箱地址。';  
                return false;  
            }  
            if (password !== confirmPassword) {  
                errorElement.textContent = '密码与确认密码不一致。';  
                return false;  
            }  
  
            errorElement.textContent = ''; // 清除错误信息  
            return true; // 表单有效  
        }  
  
        function validateLoginForm() {  
            // 实现登录表单的验证逻辑  
            let username = document.forms[1]["username"].value;  
            let password = document.forms[1]["password"].value;  
  
            let errorElement = document.getElementById('login-error');  
  
            if (username === '' || password === '') {  
                errorElement.textContent = '用户名和密码不能为空。';  
                return false;  
            }  
  
            errorElement.textContent = ''; // 清除错误信息  
            return true; // 表单有效  
        }  
  
        // 默认显示注册表单  
        showRegisterForm();  
    </script>  
  
</body>  
</html>