**@ 4.Payment validation**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Payment Validation</title>

    <style>

        body { font-family: Arial, sans-serif; }

        .container { max-width: 400px; margin: 50px auto; padding: 20px; border: 1px solid #ccc; border-radius: 5px; }

        .error { color: red; }

    </style>

</head>

<body>

    <div class="container">

        <h1>Payment Details</h1>

        <form id="paymentForm">

            <input type="text" id="cardNumber" placeholder="Card Number"><br>

            <span id="cardNumberError" class="error"></span><br><br>

            <input type="text" id="cardName" placeholder="Name on Card"><br>

            <span id="cardNameError" class="error"></span><br><br>

            <input type="text" id="expiryDate" placeholder="Expiry Date (MM/YY)"><br>

            <span id="expiryDateError" class="error"></span><br><br>

            <input type="text" id="cvv" placeholder="CVV"><br>

            <span id="cvvError" class="error"></span><br><br>

            <button type="button" onclick="validatePayment()">Pay Now</button>

        </form>

    </div>

    <script>

        function validatePayment() {

            const validate = (id, regex, errMsg) => {

                const value = document.getElementById(id).value.trim();

                const errorElement = document.getElementById(id + 'Error');

                errorElement.textContent = regex.test(value) ? '' : errMsg;

                return !errorElement.textContent;

            };

            const isValid = validate('cardNumber', /^\d{16}$/, 'Invalid card number.') &&

                            validate('cardName', /\S/, 'Name on card is required.') &&

                            validate('expiryDate', /^(0[1-9]|1[0-2])\/\d{2}$/, 'Invalid expiry date.') &&

                            validate('cvv', /^\d{3,4}$/, 'Invalid CVV.');

            if (isValid) alert('Payment successful!');

        }

    </script>

</body>

</html>