

Software Engineering

Lab Assessment – 5

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Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <style>
    body {
      font-family: Arial, sans-serif;
      background-color: #f4f4f4;
      margin: 0;
      padding: 0;
    }

    h1 {
      text-align: center;
      color: #333;
    }

    form {
      max-width: 500px;
      margin: 20px auto;
      padding: 20px;
      background-color: #fff;
      border-radius: 5px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    }

    label {
      display: block;
      margin-bottom: 5px;
      color: #555;
    }

    input[type="text"],
    input[type="email"],
    input[type="number"] {
      width: 100%;
      padding: 10px;
      margin-bottom: 15px;
    }
```

```

border: 1px solid #ccc;
border-radius: 3px;
box-sizing: border-box;
}

input[type="text"]:invalid,
input[type="email"]:invalid,
input[type="number"]:invalid {
  border-color: red;
}

input[type="text"]:focus,
input[type="email"]:focus,
input[type="number"]:focus {
  outline: none;
  border-color: #4CAF50;
}

button[type="submit"] {
  background-color: #4CAF50;
  color: white;
  border: none;
  padding: 10px 20px;
  border-radius: 3px;
  cursor: pointer;
}

button[type="submit"]:hover {
  background-color: #45a049;
}

```

```

</style>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Payment Form</title>
</head>
<body>
<h1>Payment Form</h1>
<form action="/submit_payment" method="POST">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name" required maxlength="50" pattern="[A-Za-z ]+" title="Only letters and spaces allowed">

  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required maxlength="100">

  <label for="card_number">Card Number:</label>
  <input type="text" id="card_number" name="card_number" required maxlength="16" pattern="[0-9]{16}" title="16-digit card number">

  <label for="expiry_date">Expiry Date:</label>
  <input type="text" id="expiry_date" name="expiry_date" required maxlength="5" pattern="^(0[1-9]|1[0-2])\d{2}$" title="MM/YY format">

  <label for="cvv">CVV:</label>
  <input type="text" id="cvv" name="cvv" required maxlength="3" pattern="[0-9]{3}" title="3-digit CVV number">

  <label for="amount">Amount:</label>
  <input type="number" id="amount" name="amount" required min="1" max="100000">

  <button type="submit">Pay Now</button>
</form>
</body>
</html>

```

Output:

Payment Form

Name:

Email:

Card Number:

Expiry Date:

CVV:

Amount:

Pay Now

Test Cases:

1. Name Field:

- Test Case 1: Enter a name with 1 character (Minimum boundary value).
- Test Case 2: Enter a name with 50 characters (Maximum boundary value).
- Test Case 3: Enter a name with 51 characters (Invalid input).

- Test Case 4: Enter an empty name (Invalid input).

2. Email Field:

- Test Case 5: Enter a valid email address with 6 characters before '@' (Minimum boundary value).
- Test Case 6: Enter a valid email address with 100 characters (Maximum boundary value).
- Test Case 7: Enter an invalid email address (Invalid input).
- Test Case 8: Enter an empty email address (Invalid input).

3. Card Number Field:

- Test Case 9: Enter a valid 16-digit card number (Minimum boundary value).
- Test Case 10: Enter a valid 16-digit card number (Maximum boundary value).
- Test Case 11: Enter a card number with 15 digits (Invalid input).
- Test Case 12: Enter a card number with 17 digits (Invalid input).

4. Expiry Date Field:

- Test Case 13: Enter a valid expiry date in MM/YY format (Minimum boundary value).
- Test Case 14: Enter a valid expiry date in MM/YY format (Maximum boundary value).
- Test Case 15: Enter an invalid expiry date format (Invalid input).
- Test Case 16: Enter an empty expiry date (Invalid input).

5. CVV Field:

- Test Case 17: Enter a valid 3-digit CVV number (Minimum boundary value).
- Test Case 18: Enter a valid 3-digit CVV number (Maximum boundary value).
- Test Case 19: Enter a CVV with 2 digits (Invalid input).
- Test Case 20: Enter a CVV with 4 digits (Invalid input).

6. Amount Field:

- Test Case 21: Enter the minimum amount (1) (Minimum boundary value).
- Test Case 22: Enter the maximum amount (1000000) (Maximum boundary value).
- Test Case 23: Enter an amount less than 1 (Invalid input).
- Test Case 24: Enter an amount greater than 1000000 (Invalid input).