

VALIDATING FORM DATA

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Program:	CPE	Section:	CPE107L

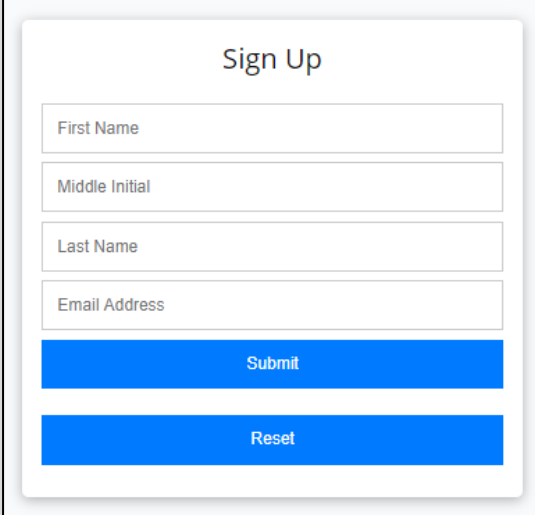
Intended Learning Outcomes:

1. Write functions to react to events.
2. Validate HTML forms.

Design a simple form that contains the following details:

- First Name
- Middle Initial
- Last Name
- E-Mail Address

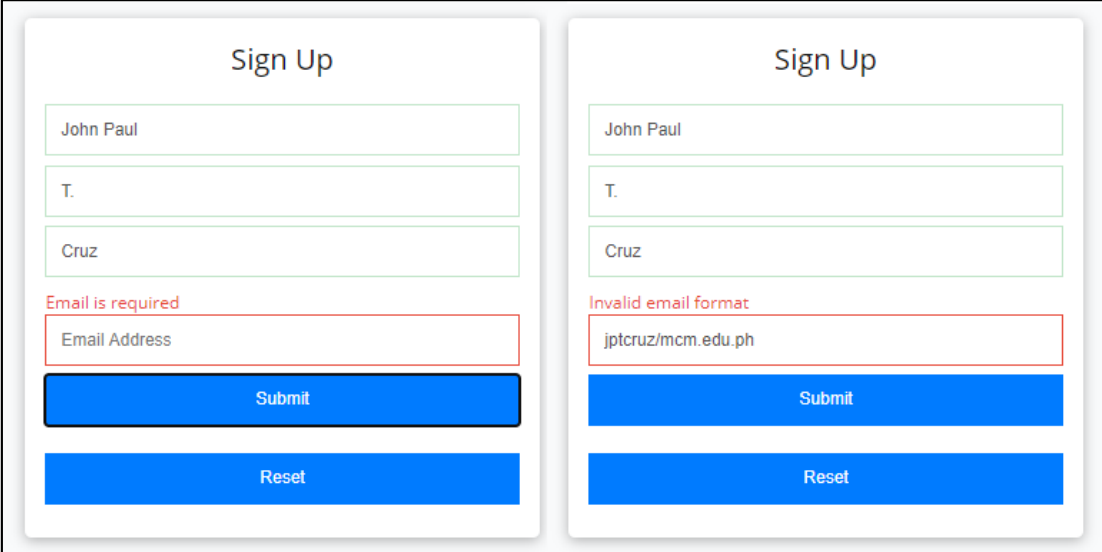
Here is an example form:



The example form is titled "Sign Up". It contains four input fields: "First Name", "Middle Initial", "Last Name", and "Email Address". Below the input fields are two blue buttons: "Submit" and "Reset".

The form must be able to validate if the First Name, Middle Initial, and Last Name fields have corresponding inputs (regardless of content). The form must also validate if there is an invalid e-mail address format presented. There must be an alert message to signify that there are invalid inputs.

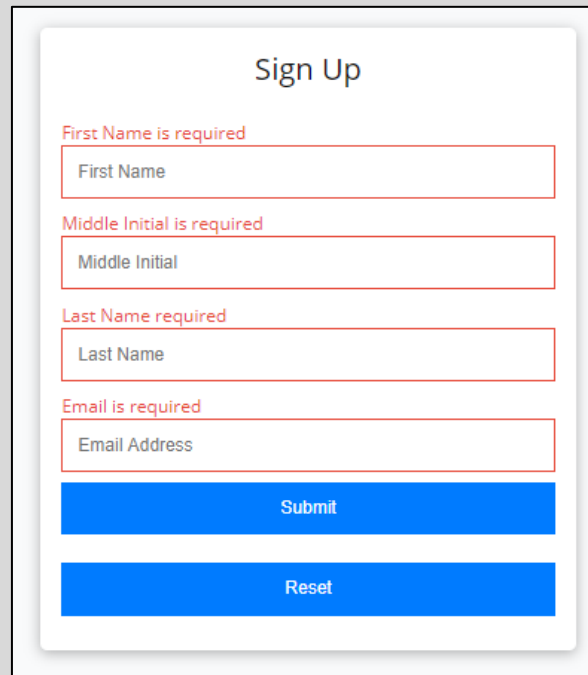
Here is a sample output:



The sample output shows two instances of the "Sign Up" form. The left form shows the input fields filled with "John Paul", "T.", and "Cruz", and the "Email Address" field with a red border and the text "Email is required" above it. The right form shows the input fields filled with "John Paul", "T.", and "Cruz", and the "Email Address" field with a red border and the text "Invalid email format" above it. Both forms have "Submit" and "Reset" buttons.

VALIDATING FORM DATA

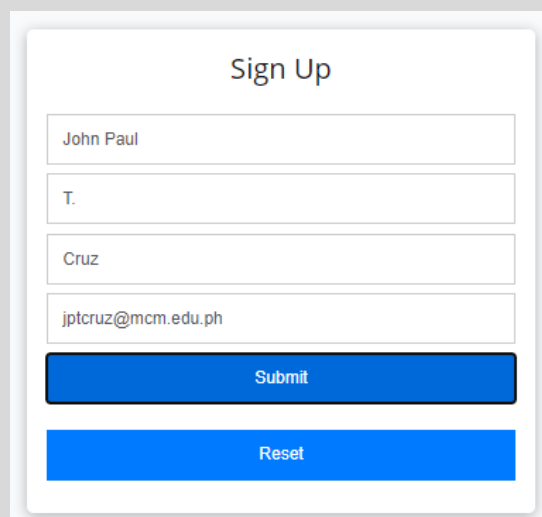
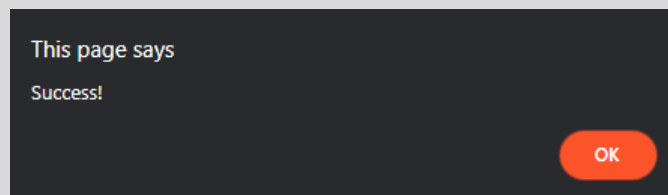
The form must be able to see if there are no inputs placed. Here is a sample output:



A sample output of a Sign Up form. The form is titled "Sign Up" and contains four input fields, each with a red border and a red error message above it: "First Name is required", "Middle Initial is required", "Last Name required", and "Email is required". The input fields are labeled "First Name", "Middle Initial", "Last Name", and "Email Address". Below the input fields are two blue buttons: "Submit" and "Reset".

Once the form validates all inputs, an alert box must be seen that says **Success!**

Here is a sample output:



A sample output of a Sign Up form with valid inputs. The form is titled "Sign Up" and contains four input fields, each with a gray border: "John Paul", "T.", "Cruz", and "jptcruz@mcm.edu.ph". Below the input fields are two blue buttons: "Submit" and "Reset".

HTML Source Code:

```
<!DOCTYPE html>
<html>
<head>
    <title>
        Lab Task 6
    </title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
    <div class="content">
        <div class="innerContent">
            <h3>
                Sign Up
            </h3>
            <form>
                <p id="fNameText"></p>
                <input type="text" id="fName" class="form"
placeholder="First Name">
                <p id="mNameText"></p>
                <input type="text" id="mName" class="form"
placeholder="Middle Initial">
                <p id="lNameText"></p>
                <input type="text" id="lName" class="form"
placeholder="Last Name">
                <p id="emailText"></p>
                <input type="text" id="email" class="form"
placeholder="Email Address">
                <button type="button" name="signBtn" class="btn
registerBtn" onclick="validateForm()">Register</button>
                <input type="submit" name="cacnelBtn" value="Cancel"
class="btn">
            </form>
        </div>
    </div>
    <script type="text/javascript" src="main.js"></script>
</body>
</html>
```

CSS Source Code:

```
body
{
    background: #445f69;
    display: grid;
    font-size: 130%;
    font-family: helvetica;
    grid-template-columns: 35% auto 35%;
    grid-template-areas:
        ". . ."
        ". content ."
        ". . .";
}
.content
{
    grid-area: content;
    background: #e5d791;
    border: solid;
    border-radius: 8px;
}
h3
{
    grid-area: head;
    text-align: center;
```

```

        margin-bottom: 0px;
    }
    p
    {
        font-size: 65%;
        margin: 0px auto 0px 10%;
        color: red;
    }
    .btn
    {
        font-size: 85%;
        font-family: helvetica;
        padding: 5px 20px;
        width: 80%;
        display: block;
        margin: 5px auto;
    }
    .form
    {
        font-size: 90%;
        font-family: helvetica;
        width: 80%;
        display: block;
        margin: 18px auto 0px;
    }
    .innerContent
    {
        margin: 5px;
        margin-bottom: 30px;
    }
    .registerBtn
    {
        margin-top: 15px;
    }

```

JavaScript Source Code:

```

function validateForm() {
    var fName, mName, lName, email;
    fName = document.getElementById("fName");
    mName = document.getElementById("mName");
    lName = document.getElementById("lName");
    email = document.getElementById("email");

    var valid = 0;

    if (fName.value.localeCompare("") == 0)
    {
        valid += 1;
        document.getElementById("fNameText").innerHTML = "*Please enter your first name.";
        fName.style.border = "solid red";
        fName.style.margin = "0px auto 0px"
    }
    else
    {
        document.getElementById("fNameText").innerHTML = "";
        resetStyle(fName);
    }
    if (mName.value.localeCompare("") == 0)
    {
        valid += 1;
        document.getElementById("mNameText").innerHTML = "*Please enter your middle initial.";
        mName.style.border = "solid red";
        mName.style.margin = "0px auto 0px"
    }
}

```

```

    }
    else
    {
        document.getElementById("mNameText").innerHTML = "";
        resetStyle(mName);
    }
    if (lName.value.localeCompare("") == 0)
    {
        valid += 1;
        document.getElementById("lNameText").innerHTML = "**Please enter your
last name.";
        lName.style.border = "solid red";
        lName.style.margin = "0px auto 0px"
    }
    else
    {
        document.getElementById("lNameText").innerHTML = "";
        resetStyle(lName);
    }
    if (email.value.localeCompare("") == 0)
    {
        valid += 1;
        document.getElementById("emailText").innerHTML = "**Please enter your
email address.";
        email.style.border = "solid red";
        email.style.margin = "0px auto 0px"
    }
    else
    {
        document.getElementById("emailText").innerHTML = "";
        resetStyle(email);
        if (!ValidateEmail(email))
        {
            valid += 1;
        }
    }

    console.log(valid);
    if (valid == 0)
    {
        alert("Success!");
    }
}

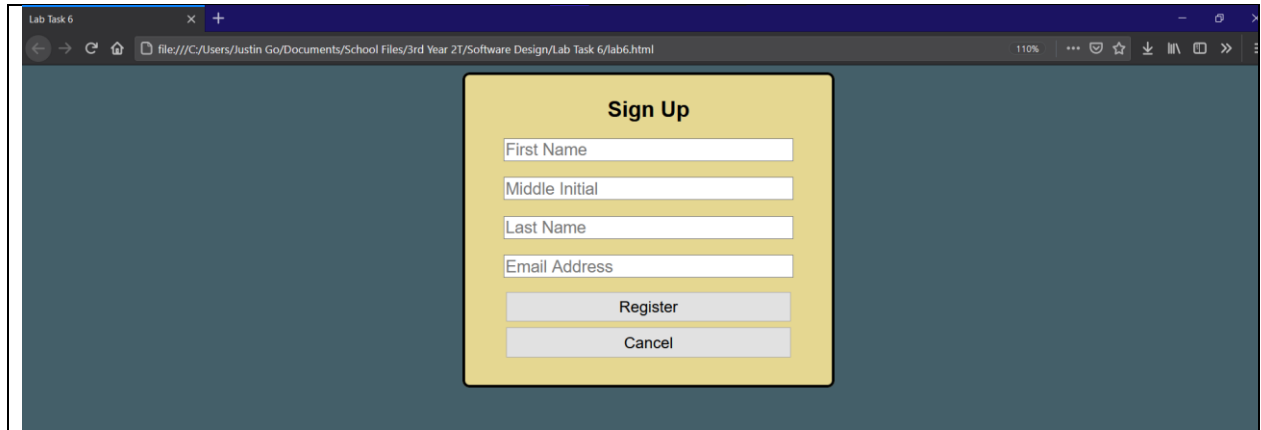
function ValidateEmail(mail)
{
    if (mail.value.match(/^([a-zA-Z0-9-~!#$%&'*/+=?^_`{|}~-]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)+)$/))
    {
        return (true)
    }
    document.getElementById("emailText").innerHTML = "**Please enter a VALID email
address."
    return (false)
}

function resetStyle(text)
{
    text.style.border = "none";
    text.style.margin = "18px auto 0px"
}

```

Output:

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Lab Task 6

file:///C:/Users/Justin Go/Documents/School Files/3rd Year 21/Software Design/Lab Task 6/lab6.html

110%

Sign Up

First Name

Middle Initial

Last Name

Email Address

Register

Cancel

Findings and Observations:

This task provided me insight on how the website creates interactivity between the user and the page. The task showed how javascript can not only perform visual elements but also interact and modify the elements in the page.