

VALIDATING FORM DATA

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Program:	CPE	Section:	A361

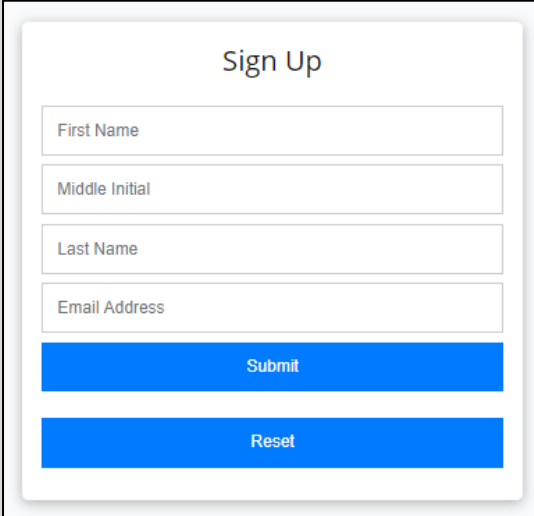
Intended Learning Outcomes:

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

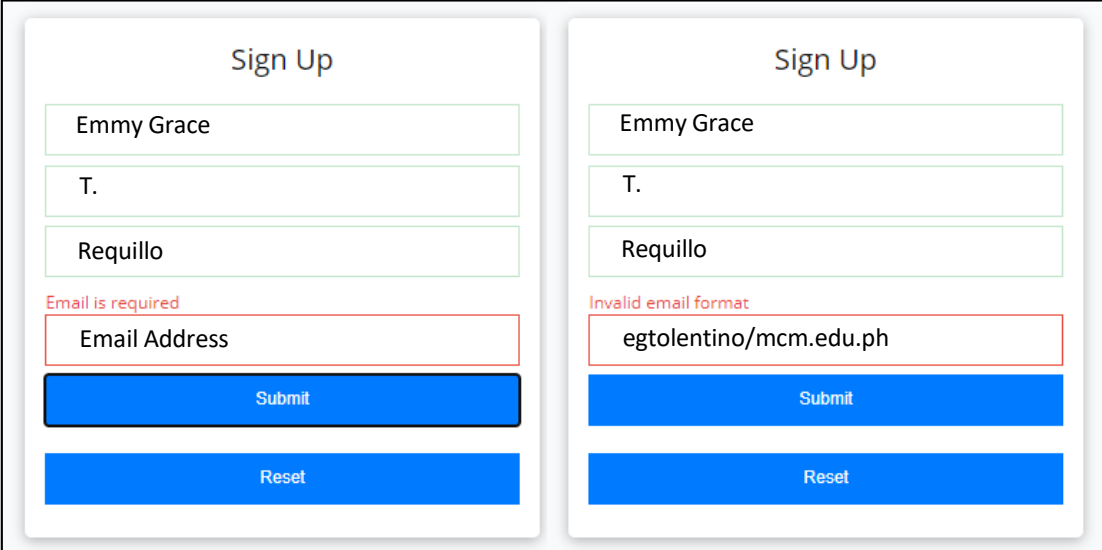
Here is an example form:



A sample 'Sign Up' form with a white background and a thin border. It contains four text input fields labeled 'First Name', 'Middle Initial', 'Last Name', and 'Email Address' stacked vertically. Below the inputs are two blue buttons labeled '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.

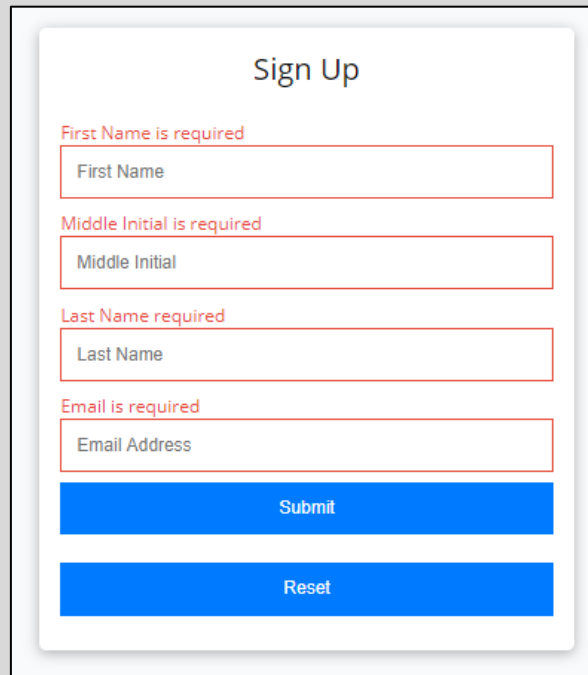
Here is a sample output:



Two side-by-side screenshots of the 'Sign Up' form showing validation results. The left form shows successful input: 'Emmy Grace', 'T.', 'Requillo', and an empty 'Email Address' field. The right form shows an error: 'Emmy Grace', 'T.', 'Requillo', and 'egtolentino/mcm.edu.ph' in the 'Email Address' field, with a red border and the message 'Invalid email format' above it. Both forms have blue 'Submit' and 'Reset' buttons.

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



Sign Up

First Name is required

Middle Initial is required

Last Name required

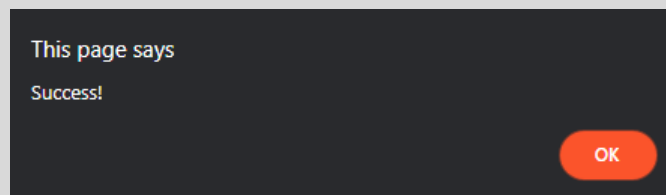
Email is required

Submit

Reset

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

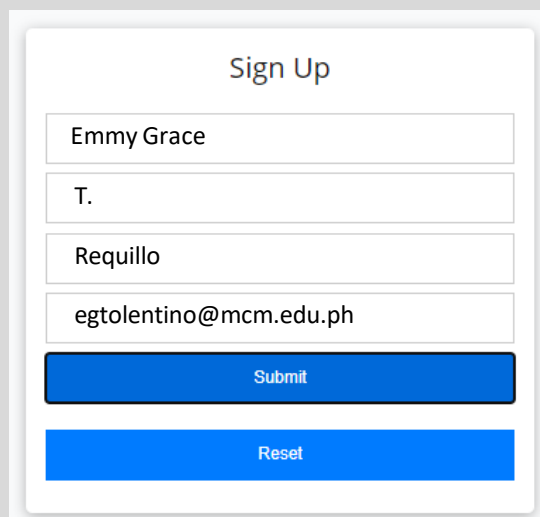
Here is a sample output:



This page says

Success!

OK



Sign Up

Submit

Reset

VALIDATING FORM DATA**HTML Source Code:**

```
<!DOCTYPE html>
<html>
  <head>
    <link rel="stylesheet"
href="C:\Users\LENOVO\OneDrive\Documents\GitHub\har_old.github.io\Laboratory_Task_6-
David\task6style.css">
    <title>Form</title>
    <header>Sign Up</header>
  </head>
  <body>
    <form id="Form">
      <div class="inputs">
        <input type="text" id="firstName" placeholder = "Enter Firstname"><br>
        <input type="text" id="middleInitial" placeholder = "Enter Middle
Initial"><br>
        <input type="text" id="lastName" placeholder="Enter Lastname"><br>
        <input type="text" id="email" placeholder="Enter Valid Email"><br>
        <input type="submit" value="Submit">
        <input type="reset" value="Reset">
      </div>
    </form>
    <script src="task6.js"></script>
  </body>
</html>
```

CSS Source Code:

```
body{
  text-align: center;
  font-size: 50px;
  border: solid;
  margin-left: 50rem;
  margin-right: 50rem;
}

div.inputs{
  border-spacing: 0;
  margin: 0;
}

.error{
  border: 2px solid red;
}
```

JavaScript Source Code:

```
document.getElementById("Form").addEventListener("submit", function(event) {
  let hasError = false;
  let errorMessages = [];

  let nFields = {
    "First Name": document.getElementById("firstName"),
    "Middle Initial": document.getElementById("middleInitial"),
    "Last Name": document.getElementById("lastName")
  };
  let emailField = document.getElementById("email");

  for (let fieldName in nFields) {
    let field = nFields[fieldName];
    field.classList.remove("error");

    if (!field.value.trim()) {
      field.classList.add("error");
      hasError = true;
      errorMessages.push(`${fieldName} should not be empty.\n`);
    }
  }

  emailField.classList.remove("error");
```

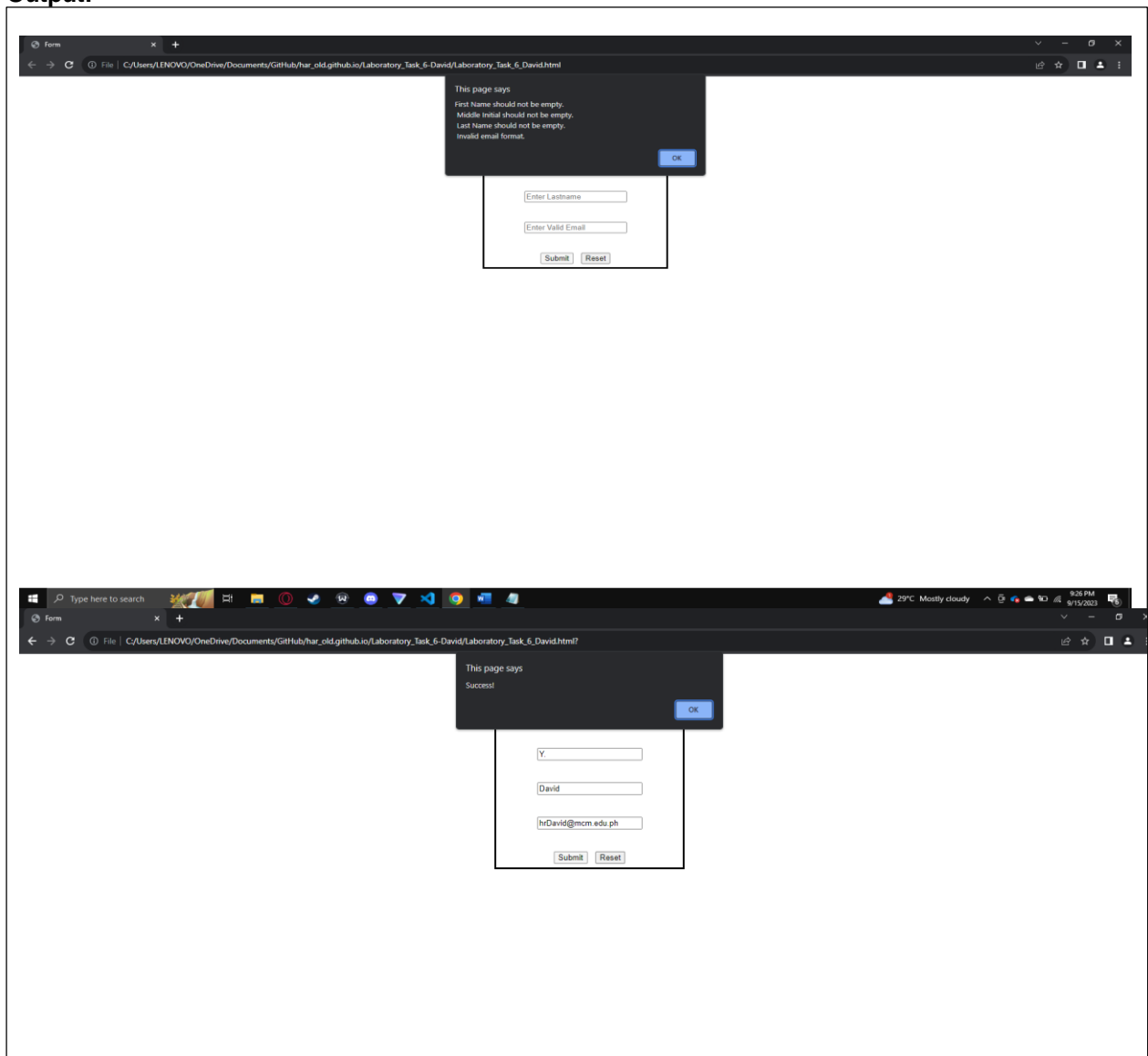
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```
let emailFormat = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,6}$/;
if (!emailFormat.test(emailField.value)) {
    emailField.classList.add("error");
    hasError = true;
    errorMessages.push("Invalid email format.");
}

if (hasError) {
    alert(errorMessages.join(" "));
    event.preventDefault();
} else{
    alert("Success!");
}
});

document.getElementById("Form").addEventListener("reset", function() {
    let fields = [document.getElementById("firstName"),
document.getElementById("middleInitial"), document.getElementById("lastName"),
document.getElementById("email")];

    fields.forEach(field => field.classList.remove("error"));
});
```

Output:

The top screenshot shows a web browser window with a form titled "Form". The form has three input fields: "Enter Lastname", "Enter Valid Email", and "Enter First Name". Below the fields are "Submit" and "Reset" buttons. An alert box is displayed over the form, showing the following messages: "First Name should not be empty.", "Middle Initial should not be empty.", "Last Name should not be empty.", and "Invalid email format." The bottom screenshot shows the same web browser window. The alert box now displays "Success!". The form fields are populated with the following values: "Y" in the "Enter First Name" field, "David" in the "Enter Lastname" field, and "hrDavid@mcm.edu.ph" in the "Enter Valid Email" field. The "Submit" and "Reset" buttons are still visible.

VALIDATING FORM DATA**Findings and Observations:**

Making a form and at the same time integrating JavaScript is a bit tricky to do. I still have a lot to learn and practice even more to better understand JavaScript so that way I won't have any problem in making a website while integrating JavaScript.