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| **Program:** | CPE | **Section:** | CPE107L |

**Intended Learning Outcomes:**

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

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| Design a simple form that contains the following details:   * First Name * Middle Initial * Last Name * E-Mail Address   Here is an example form:    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:  Graphical user interface, application  Description automatically generated  The form must be able to see if there are no inputs placed. Here is a sample output:    Once the form validates all inputs, an alert box must be seen that says **Success!**  Here is a sample output: |

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**HTML Source Code:**

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| <!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:**

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| 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:**

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| 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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**Findings and Observations:**

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| 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. |