CPT 238 Assignment 6

Directions

Using the following guidelines, create a web page. Ensure to use the basic starting template, master.html.

1. Save the web page as assignment6.html
2. The web page <title> should be Assignment 6.
3. On the assignment3.html page, create elements as shown in Figure 1, following these guidelines:
   a. Do **NOT** use any of the new HTML 5 <input> types or the *required* or *pattern* attributes for this assignment.
   b. Add the supplied logo (logo.jpg) on top of the page.
   c. "Create an Account" should be a <h1> element.
   d. All elements below the Create an Account heading should be included within a <form> element. The opening form tag should be:

   <form id="custForm" action="FormProcessor.html" method="get" >

   e. These <form> attributes will cause your web page to pass the form field data to a web page named FormProcessor.html. I have supplied this file to you. Ensure to place it in the same folder as your webpage.
   f. "Your Preferences" and "Customer Information" should be <h2> elements.
   g. Ensure to give all of your form <input> and <select> elements a ***name*** attribute. This can have the same value as the ***id*** attribute. It is required because this is how the values are passed when submitting a form.

   Example: <input type="text" id="first_name" name="first_name">

   h. The "Most Frequently Used Operating Systems" dropdown list (using <select> and <option> elements) should have the following options:
      i. Windows 8
      ii. Windows 7
      iii. Android
      iv. Mac OS
      v. Other
   i. The "Most Frequently Used Software" dropdown list (using <select> and <option> elements) should have the following options:
      i. Games
      ii. Business Applications
      iii. Programming Applications
      iv. Social Networking
      v. Other
   j. The following elements should use <input type = "text> elements:
      i. First Name
      ii. Last Name
      iii. Street Address 1

           iv. Street Address 2
           v. City
           vi. State
           vii. Zip Code
           viii. Phone
           ix. E-Mail Address
           x. Credit Card Number

    k. The "Payment Method" should use a <fieldset> element containing <input type = "radio> elements. The *None* option should be checked by default.
    l. The "Expiration Month" dropdown list (using <select> and <option> elements) should have the options of 01 – 12.
    m. The "Expiration Year" should use dropdown list (using <select> and <option> elements) should have the options of 2015 - 2020.
    n. The "Submit Information" should use an <input type = "submit"> element.

4. Create an assignment6.css file.
5. On the css page create styles as necessary to make your page look like Figure 1 including:
    a. The page should have a green gradient from top to bottom.
    b. Entire page uses an Arial font.
    c. Use font sizes, font weights, and borders as shown.
    d. Error and hint messages should be red.
    e. Any other css in order to make page appear as shown.
6. Create an assignment6.js file.
7. In the assignment6.js file , write the jQuery code that will:
    a. Not execute until all page elements have loaded.
    b. When focus is given to the following elements, show a hint to the user as follows:
        i. State - **Use a two letter abbreviation**
        ii. Zip Code   - **Use a 5 digit Zip Code**
        iii. Phone   - **Numbers Only – No Spaces or Dashes**
        iv. E-Mail Address   - **Example – john@doe.com**
        v. Credit Card Number   - **Numbers Only – No Spaces or Dashes**
    c. When the user attempts to submit the form by clicking the Submit Information button, perform the following form field validation (See Hint):
        i. First Name, Last Name, City   - Ensure that the user has entered a value and that it is only letters and spaces between 2 and 20 characters. If not, the error message should read - **Required: Must contain only letters and spaces between 2 and 20 characters!**
        ii. Street Address 1 - Ensure that the user has entered a value and that it is only letters, numbers and spaces between 2 and 20 characters. If not, the error message should read - **Required: Must contain only letters, numbers and spaces between 2 and 20 characters!**
        iii. Street Address 2 - If the user enters Address 2, ensure that it is only letters, numbers and spaces between 2 and 20 characters. If not, the error message should read - **Must contain only letters, numbers and spaces between 2 and 20 characters!**
        iv. State - Ensure that the user has entered a value and that it is only letters exactly 2 characters long. If not, the error message should read - **Required: Must contain a two-letter State abbreviation!**

    v. Zip Code - Ensure that the user has entered a value and that it is only numbers exactly 5 characters long. If not, the error message should read - **Required: Must contain a 5 number Zip Code!**

    vi. Phone – If the user enters a Phone Number, ensure that the user has entered a value and that it is only numbers exactly 10 characters long. If not, the error message should read - **Must contain a 10 digit number with no spaces or dashes!**

    vii. E-Mail Address – Ensure that the user has entered a value and that it is a properly formatted e-mail address. If not, the error message should read - **Required: Must be a valid e-mail address!**

    viii. Credit Card Number – If the user selects anything besides *None* for Payment Method, ensure that the user has entered a value and that it is only numbers from 13 – 16 characters long. If not, the error message should read - **Must contain a 13-16 digit number with no spaces or dashes!**

    ix. Expiration Month and Expiration Year – If the user selects anything besides *None* for Payment Method, ensure that the user has selected a value. If not, the error message should read – **Must select a Month and Year!**

    x. If any errors are found on the page an additional message should appear on the top of the page below the Create Your Account heading. This message should read - **Please edit the marked fields below to fix errors!**

8. Use the following figures to help you with the page design:
  a. Figure 1 – Page as seen when first rendered.
  b. Figure 2 – Page showing the Operating System dropdown list.
  c. Figure 3 – Page showing the Software dropdown list.
  d. Figure 4 – Page showing the hint for Credit Card Number when focus is given to the element.
  e. Figure 5 – Page showing a form that the user attempted to submit with two errors. Notice the error messages next to the items as well as the error message at the top of the form.
  f. Figure 6 – Page showing a properly filled out form with no errors.
  g. Figure 7 – Shows the result of submitting an error-free form. This is the result of the FormProcessor.html page.

9. Test your web page. When the form is properly filled out with no errors, the page should submit and the result will be similar to Figure 7.

10. Zip your files and submit into the Assignment 6 Drop Box.

Hints

You will need to use Regular Expressions for your form validation. A great source of information is:

http://regexlib.com

A good place to test Regular Expressions is:

http://regex101.com

Figure 1

Figure 2

Figure 3

Figure 4

Assignment 6

file:///l:/cpt238/Assignments/assignment 6/assignment6.html

THE COMPUTERWAREHOUSE

Create an Account

Please edit the marked fields below to fix errors.

Your Preferences

Most Frequently Used Operating System: Android   Most Frequently Used Software: Social Networking

Customer Information

* Required Information

First Name:* name#   **Required: Must contain only letters and spaces between 2 and 20 characters**

Last Name:* Smith

Street Address 1:* 120 Main Street

Street Address 2:

City:* Summerville

State:* SC

Zip Code:* 29483

Phone:

E-Mail Address:* badEmail   **Required: Must be a valid e-mail address**

Payment Method:*
◯ None ◯ Visa ⦿ Master Card ◯ American Express

Credit Card Number: 1234567823456789

Expiration Month: 10   Expiration Year: 2016
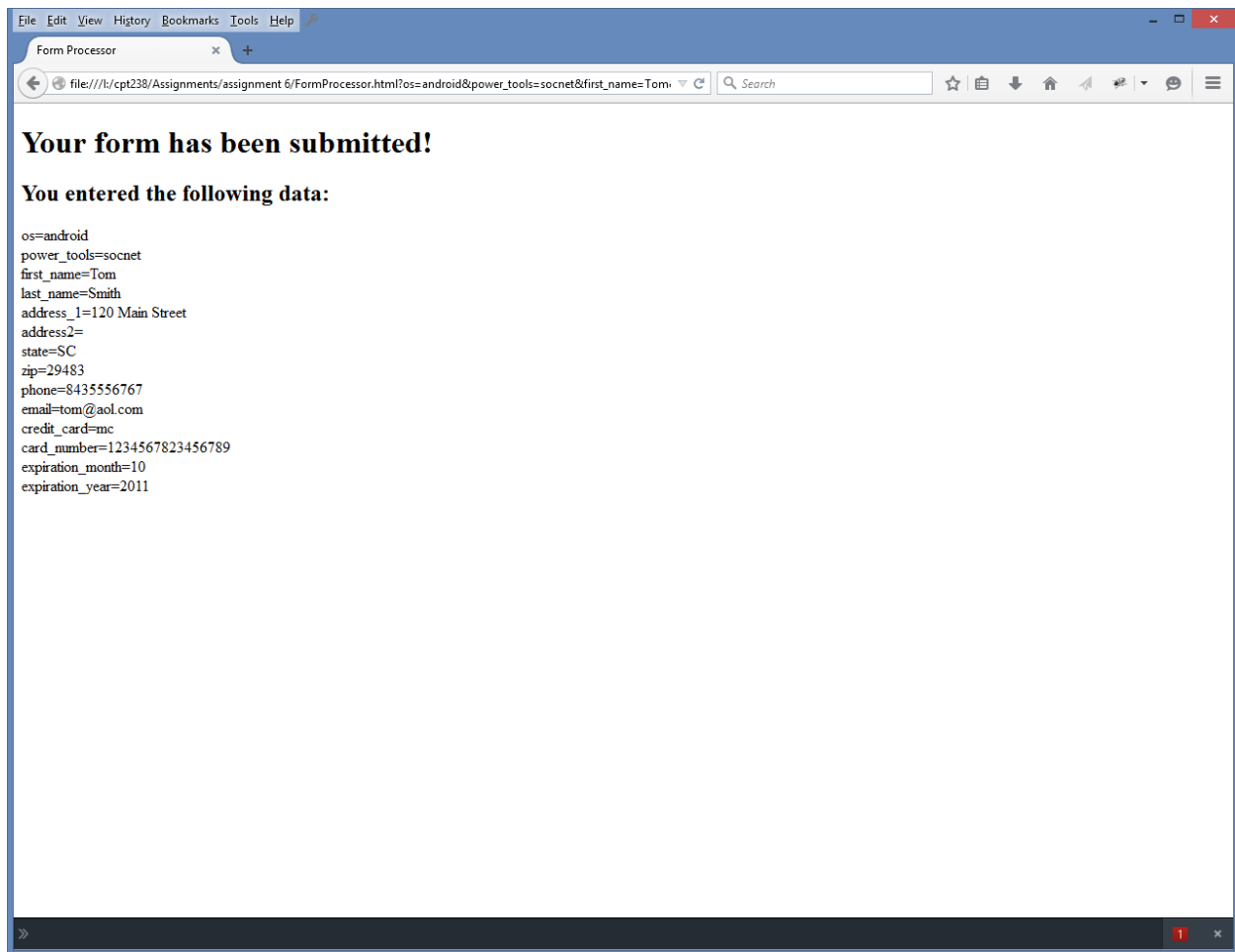
Submit Information

Figure 5

Figure 6

Figure 7