ASSIGNMENT 4 – Forms Validation

14 June 2016

PROG8165

Directions:

<u>To be completed individually</u>. We will be checking for borrowed or copied assignments.

The purpose of this assignment is to demonstrate your ability to validate forms using JavaScript.

In this assignment, you are to develop an HTML Web page that simulates the creation of an account. You are to provide form inputs to allow the following information to be entered:

- Name (Mandatory)
- Email (Mandatory)
- Password (Mandatory)
- Confirm Password (Mandatory)
- Telephone Number (Optional)
- Web site address (Optional)

Your form should also contain a Submit button and a Reset button [5 Marks for the form as described above]. You are to validate the form using JavaScript within an external JS file. This JS file is to be linked to your HTML page as explained in previous classes [2 Marks]. The HTML page does not have to direct the browser to send the submitted information anywhere (`<form action="">`). Validation can also be done with HTML5 if it is possible and appropriate. You should also create and link an external CSS page to provide your page with appropriate formatting and colour [3 Marks].

Your validation must:

- Check that each mandatory box is not empty [4 Marks]
- Check that the password fields match [4 Marks]
- Provide a unique error message for each situation that can fail (each blank field should be a different message, for example) [3 Marks]
- Use a regular expression to validate that the email consists of x@y.z, where x, y, and z are one or more alphanumeric characters. [3 Marks]
- Use a regular expression to validate that the optional telephone field is in the pattern ddd-ddd-dddd, where d is any digit. [3 Marks]
- Use a regular expression to validate that the Web site field is in the pattern http://x.y.z where x, y, and z are one or more alphanumeric characters. [3 Marks]

Your HTML should contain all the required base HTML tags as we learned in previous assignments.

This assignment will be due on **June 26ᵗʰ** by midnight.

To submit this assignment, place any and all of your HTML, and CSS files and any multimedia files required (any images you use, any fonts, audio, etc.) into a single folder. Zip (or RAR) this folder, and submit the zipped file to eConestoga. No cover sheet is required for this assignment. A good way to make sure everything is correct, is to unzip the file you are submitting on a different location on your computer and making sure everything works. I must be able to see your results.