Homework 4 – DOM and jQuery

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In this homework, I replaced all Javascript code that makes use of attributes for events with jQuery events instead and using “unobtrusive” code techniques. For instance I used the “submit ()” jQuery API in order to keep track of when the submit button is clicked. Previously, it was calling the function “validate ()” and using javascript to do its validation. Another jQuery API I used is the “click ()” API to replace the onClick attribute which previously called 2 functions, “enableTerms ()” and “checkTerms ()”. These functions used javascript to enable the terms checkbox and to check the terms checkbox respectively. With the “click ()” API, I was able to accomplish the same thing but by using “unobtrusive” code.

Something new I added to this homework is the role select box with different text fields appearing underneath depending on which value is selected. I accomplished this by using the API “change ()”, “append ()” and “empty ()”. The “change ()” API is used to keep track of when the user selects a different role in the dropdown list. The “append ()” API adds the actual fields associated with the role selected. The “empty ()” API clears any fields upon switching roles. Regardless of which role is selected, the fields are required as well as picking a role itself.

For extra credit, I added validation for the Major, Location and Year of Graduation fields using regular expressions. The validations I used are the following:

Major = /^[A-Za-z\ ]+$/

Location = /^[A-Za-z0-9.,'\_\-\ ]+$/

Year of Graduation = /^[1,2]{1}[0-9]{1}[0-9]{1}[0-9]{1}$/

For major, I used the pattern above because I wanted to cover majors with spaces in them such as “Information Technology and Informatics”.

For location, I used the pattern above because it covered all places with numbers, letters, spaces and some special characters such as periods, commas, apostrophes, etc. in order to cover as much possibilities as possible.

For year of graduation, I used the pattern above because I wanted to cover a four digit year that started with 1 or 2 and the remaining 3 digits can be any number between 0 and 9. So this effectively covered years between 1000-2999. I believe this should cover a good range at this time.