

CSI 3140

WWW Structures, Techniques and Standards

Assignment #3: client-side programming

Due: Friday, March 26th, 2009, at the beginning of the lecture

Goal: Implementation of the client-side functionalities as identified in assignment 1

Mark: 25% of the project's total mark

Details: in your first assignment, you have identified a number of functionalities for your project. In assignment 2, you have implemented the ones that are server side. You need now to implement the client side, using JavaScript, DOM manipulation and AJAX.

This implementation must be done within the static pages you have already developed. Make sure to use the technologies and ideas we have seen in class and in the book (events, DOM, following standards...).

Focus on Firefox support, as it will be the browser used for testing (of course, browser independency is better if you can achieve it). Your code must be strong and not crash if the user makes an error. It should also be well written, with the variable declared, without confusing “coding short cuts”, meaningful function and variable names and **useful** comments (pointless comments are no better than no comments). It should obviously not raise any error in the error console.

Your application should be user friendly and help users provide valid data by doing client side validation and give clear feedback on what is wrong. You should not impose useless constraints (for example. forcing the presence or the absence of spaces in a ZIP code: your program should be able to handle that for the user!) and avoid any useless user input (for example, after an input LDL DLD for a zip code, the cursor should move automatically to the next input). Your application must provide some highly dynamic client side features to give to your web application a “desktop feel”, with close to real time feedback to the user based on server-side information using asynchronous data fetching from the server (using AJAX. It is fine if you have to modify a bit the code provided in assignment 2 to accommodate this).

Deliverables: you must provide an electronic version of your **working** program, and a short report describing what you have done and how you have done it. Explain what techniques seen in class you have used, where and why.

Check your documents for spelling and grammatical mistakes. Poorly written projects will receive poor mark.

Laboratory projects can be done in groups of 2. The work should be divided equally; all members of the team will receive the same mark.