CS 275: Web Programming
Programming Assignment 2

January 28th, 2014

Due: February 5th, 2014 before the beginning of the class period

For this assignment, you will design and implement a web project that allows the user to work with a collection of 'items' of some sort. These 'items' must have at least 6 different properties that describe them as follows: '*ID*', '*title*', '*full description*', '*price*', *'comment'*, and '*photoLink*'. You may add any additional item properties in addition to the ones already specified.

All of the files for this assignment will be located in a directory named by your AU user ID. All items entered should be kept in a file called "*items.*dat" in a subdirectory called '**files**'. For example, user John Smith might have a working directory called 'jsmith6', with survey results stored in 'jsmith6/files' directory.

First, create a web page called 'Welcome.html' which contains three menu options: 'Enter an Item', which takes you to a page called "*EnterItems.html*", 'View All Items', which takes you to a PHP script called "*RetreiveItems.php*", and 'Search Items', which takes you to a PHP script called "*SearchItems.php*".

- (5 pts) Develop a web page called "*EnterItems.html*" that contains a form for users to enter information regarding the 'items'. The form recipient will be a PHP script on your server called "*SaveItems.php*".
- (15 pts) Develop a PHP script called "*SaveItems.php*". Store all of the user's form entries in a file called "*items.dat*", appending to any previous user entries. The file should reside in the 'username/files' directory, where 'username' is both your AU user name and name of your working directory.
- (15 pts) Develop a PHP script called "*RetreiveItems.php"* that allows the user to retrieve all item entries stored in the data file. The user must be able to retrieve complete descriptions of the 'items' stored. The data must be presented in a coherent and user-friendly format.
- (40 pts) Develop a PHP script called "*SearchItems.php*" that allows the user to search the stored data and provides results of the search to the user. The following functionality must be implemented for your search:
    - (5 pts) Allow the user to search all stored items by title (complete titles or partial search strings)
    - (10 pts) Allow the user to search all stored items by price range (min-max)
    - (10 pts) Allow the user to obtain a list of all domains for all stored user emails. A domain for an email address such as *jsmith@ashland.edu* is 'ashland.edu'.
    - (15 pts) Allow the user to search all stored data by a *keyword* that occurs in the '*full description*' data.
- (10 pts) While entering the data, users might enter some *bad words* in the 'comments' section of an item description, which will be stored in your items data file. Before displaying the 'comments' data back to the user, filter the data so that it does not contain any bad words. You must read in a separate file located in the 'username/files' directory called "*bad_words.dat*" that contains a list of words that are not appropriate, and filter any such words from your 'comments' data before displaying it on the screen.
- (5 pts) Your project's functionality and navigation.
- (10 pts) Error checking of user inputs using PHP.

Please note that additional deductions may apply regarding the styling and formatting of your files.

Turn In Procedures:

In addition to an electronic copy of your assignment, please turn in a printout of your source code (only PHP files). Please "compress" the whole working directory named by your AU user id and containing your project files into a single '.zip' file that contains your name and the assignment number.

Please make sure that I receive your assignments before the due date and time. Late programming assignments will be accepted for 24 hours after they are due and will be penalized by a 50% deduction. No assignments will be accepted after the 24 hour period expires.