COMP 722 Fall 2007 Programming Assignment 5

Due in the digital drop box by Thursday, Nov. 15 at 11:00 PM

1. This problem is somewhat similar to the second example in section 11.10 of the Course Notes in that there is a PHP script that fields a form submission and produces HTML that includes a form.

First of all, we need an HTML document to gather some demographic information from the user. Include radio buttons for the user's gender (male or female) and for the user's age range (younger than 21, 21-65, and over 65). Also include a text box for the user's first name and one for his/her last name.

The PHP script that fields the submission of this form produces HTML that includes a form whose content depends on the values of the form variables. If the user is younger than 21, the form has two text boxes, one for the user's mother's first name and one for his/her father's first name If the user is between 21 and 65, the form has three radio buttons for the user's marital status: single, married, or divorced. If the user is over 65 and female, the form has a text box for the user's weight. Finally, if the user is over 65 and male, then the form contains a text box for the user's height. In any case, the form should contain hidden fields with the values of the data from the original form submission.

The four types of forms produced by the script will have different values for their `action` attribute, that is, submission of the different forms will send requests to four different PHP scripts, all of which you will write. Each of these scripts, however, simply echoes all the form data (including that contained in hidden fields). The resulting HTML should have content that is well-formed English—do not just dump the values of the form variables.

For this problem, then, you will submit six files:

- The .html file that is the original document loaded in your browser
- The .php file that fields the request resulting from submitting the form in the HTML document
- Four .php files to field the submissions of the four kinds of forms produced by the script fielding the submission of the original form

2. For this problem, you will write several scripts for displaying and managing orders. You will also maintain two data files: one with pending orders, and one with fulfilled orders. You have to be able to add orders to the pending orders file and to move orders from the pending to the fulfilled orders file.

We first need an HTML document for placing orders. This document should have a text box for the user's name. The first name alone is sufficient for our purposes. To keep things simple, assume that the only things being sold are widgets, so the only other form element we need is a text box for the number of widgets ordered. When the form is submitted, the PHP script invoked gets the form data and adds a line to the pending orders file with the customer's name and the number of widgets ordered.

For the people managing the orders, we need a PHP script that produces an HTML document that allows the manager to view the pending orders and possibly also to record fulfillment of an order, moving it from the pending orders file to the fulfilled orders file. This document will list all lines in the pending orders file; the lines will be numbered

consecutively. The document will also have a text box for the user to type the line number of the order whose fulfillment is being recorded (and so is being moved from the pending to the fulfilled orders file). It will also have a checkbox that the user clicks if he does want to record the fulfillment of an order. If this box is not checked, the script fielding the submission of this form will just produce an HTML document saying (in effect) good bye to the user.

The script that fields the submission of this form, when the user indicates that an order fulfillment is being recorded, must remove the designated line from the pending orders file and add it to the fulfilled orders file. With the resources we have discussed, this will require reading the file into an array and rewriting the file, writing back everything but the designated line. (You are welcome to experiment with random-access PHP file operations: see the online PHP manual on this, http://us.php.net/manual/en/ref.filesystem.php).

Finally, we need a PHP script that produces an HTML document that shows the contents of the fulfilled orders file. This will be short and simple and will not produce a form.

For this problem, then, you will submit the following files:

- An .html document for placing an order
- A .php file that writes an order to the pending orders file
- A .php file that produces the HTML document for the manager to record an order fulfillment (or simply to look at the pending orders)
- A .php file that fields the submission of the form for recording an order fulfillment (or just indicating that no such recording is being done)
- A .php file that produces the HTML document showing the fulfilled orders.

Use locks consistently on both data files.