Homework #4

Design a Web-based survey page for a topic of your preference.

The survey can be on any subject. Examples include politics, sports, movies, science, etc. The questions can be of either true/false, or multiple-choice type. Each question must be self-contained. Make sure you have at least 10 questions in the questionnaire.

The layout of this Web page is free format. You may design it any way to your liking. However, a professional *look and feel* will help you get good scores. The programming language to be used for this assignment is **PHP**.

You may have noticed that this assignment is similar to your Homework #3. It is! However, there are some major differences:

a) You do not need to have two separate sections. The introduction part is not required. However, all questions need to be related to a single topic. A brief explanation about what this survey is for is required at the beginning of the survey. Each question needs to be self-contained: i.e., a brief introduction to help the user understand the question is required, if necessary.

b) You do not need to grade the results. This is not an exam, but a survey.

c) In order to avoid computer-generated responses to the survey, your survey program must require the user to type letters or digits from a distorted image that appears on the screen. That is, your survey program must be able to support CAPTCHA.

d) Once a user has taken the survey, s/he is not allowed to take it again until an hour later. Any subsequent attempts within an hour must be denied with a message indicating the date/time of the previous undertaking.

e) To tabulate the frequency of the answer(s) to each question cumulatively up to the last user, inclusive, in an easy to read fashion.

Your main file must be named **webSurvey.php**. You may do this assignment on any system to which you have access. However, you must submit via HWSAM the following three files for this assignment to be graded: **webSurvey.php, webSuverySer.php**, and **url.txt** which contains the URL to invoke your survey page.

This homework is due April 18, 2011, before 11:00 pm. Submission of your files must be done electronically via the instructor's Web page or by accessing the following URL directly. Follow the screen prompts.

http://student.cse.fau.edu/~hwsam/student/index.html

As a reminder, all assignments in this class are **individual** efforts unless specified otherwise. Note, for graphic or sound files (**gif**, **jpg**, **wav,** etc), unless they are locally made, you need to give references to the sources on your Web page.

In addition, you may find the following URLs helpful:

> **http://www.w3schools.com/php/default.asp**
> **http://www.php.net/manual/en/features.cookies.php**
> **http://www.php.net/manual/en/langref.php**
> **http://www.freewebmasterhelp.com/tutorials/phpmysql/**
> **http://www.free2code.net/tutorials/browse/php-2/index.html**

Some key points:

The purpose of the assignment is to show your knowledge of designing a Web-based survey, using a server-side scripting language. When grading, some of the things checked are:

- Is there a brief introduction about this survey?
- Are there at least 10 questions?
- Are the questions related to a single topic?
- Are the questions self-contained?
- Is CAPTCHA-enabled?
- Is the survey taker prevented from retaking the survey for at least one hour later?
- Is able to keep track of the survey results?
- Are there three files named webSurvey.php, webSurveySer.php, and url.txt?