CPSC 5021 In-class Exercise

Part 1: HTML, PHP

The quarter-long project requires students to provide a simple neat web interface for the instructor to access to their database. This exercise is to help students learn basic HTML and PHP to provide a front-end web interface in their project.

1. HTML
   1) Tutorial: http://www.w3schools.com/html/
   2) Editor: Microsoft Expression Web 4
   3) Download the template for your web application (http://css1.seattleu.edu/~lil/template.html) and modify it.
      - Change the title "Template for your web application" to <your project name>
      - Replace <Project Name> with your own project name.
      - Replace <*Team-member names*> with your name and your collaborator's name
      - Add two more relations (with links) in the Relations list
      - When the link "Relation1" is clicked, open a new page "new.html" in a new browser window or a new tab. A table (e.g. three rows, three columns) is displayed in the new page.
   4) Use WinSCP to connect to the server *css1.seattleu.edu*. Then put your html files (e.g. template.html, new.html in this lab) in the folder "public_html". Type http://css1.seattleu.edu/~<your name>/template.html to access your webpages.

2. PHP
   1) Tutorial:
      - http://www.w3schools.com/php/
      - http://www.php.net/manual/en/langref.php
   2) Editor: Notepad++
   3) Write a PHP program hello.php that displays "Hello World!". Use WinSCP to connect to the server *css1.seattleu.edu*. Then put your php file (i.e. hello.php in this lab) in the folder "public_html". Type http://css1.seattleu.edu/~<your name>/hello.php to see the output.
   4) Modify your template.html again, and also modify hello.php.
      - Replace action = "" with action = "hello.php".
      - In your hello.php, add one line –
        echo "The text you just typed in is " . $_POST["query"];
      - Put your updated template.html and hello.php in the folder "public.html" on the server *css1.seattleu.edu*.
      - Type http://css1.seattleu.edu/~<your name>/template.html to access your webpages. Input some words in the query box, and click on the "Submit" button.

Part 2: MySQL Connection using PHP

This exercise is about the "Ad-hoc Query" section in the given template
http://css1.seattleu.edu/~<your name>/template.html.

The intent is that the user can enter any arbitrary SQL query (i.e. select, delete, update, insert) in the box and click the submit button; that query should be executed on your database and the answers are displayed, in a neat orderly fashion (*one row for each tuple and columns are evident*). The input can be any legal SQL query that is permissible on your DB.
For example, if the user inputs a query *select * from COURSES* in the textbox, and clicks the submit button, the query result should be displayed. See below for a sample display.

CS056	Data Structure	G1	5
CS010	C++	U1	5
ENG111	English	U1	3
FIN052	Finance	G1	5
PHY210	Physics	U2	5
CHE350	Chemistry	U3	5
BIO001	Biology	U1	3
CS052	Operating Systems	G1	5
CS460	Software Engineering	U4	5
CS550	Compiler	G1	6