Assignment 2

In this assignment you will implement the authentication part of a web-based system for intended for UTEP CS alumni. Your web site should have a main page named alumni.html, a page intended for only alumni, and a page allowing user registration. Put a copy of your web page files on the course web server under the directory with a random name that you used in assignment 1.

You can design the login process either on a separate page, or from the main page. Do not use the HTTP authentication headers described in our textbook. Instead, use a form on a separate page, or on the main page (or both if you so wish.) You will need a database of registered users. Registered users’ passwords in the database will stored as the hash function applied to the concatenation of 3 strings: a constant string of random characters, the userid, and the password. In this way, one would need to have access to both the database and the php program to mount a password cracking attack, and the userid used as an additional salt will slow down the brute force attack.

On the main page, display some information about utep alumni for public viewing. In addition, the page should have a link to the registration page and a way for registered users to login. Once a user is logged in, all the pages should display the user name, and offer a way to logout. If the user is logged in, the main page should display a link to the page intended for alumni. If the user is not logged in, the link should not be displayed. The page intended for alumni should display the list of registered users.

Write a report that contains the following:

1. How long did you spend to do this assignment?

2. What problems (if any) did you encounter in this assignment, and if yes, how did you solve the problems?

3. Comment on how useful this assignment was as a way to learn about authentication on web-based systems.
**Turn in:**
Turn in by sending an e-mail with a .zip attachment containing your files and your report. Please use the subject line according to which course you are registered for:
“CS4339 Assignment 2 submission” or “CS5339 Assignment 2 submission”.

**Grading:**
Although you may want to start thinking about creating nice pages for later assignments, grades for this assignment are based on functionality and security, so you won’t lose points if your pages show only text, bare forms and buttons. You will add styling once you work in groups.

**Late Homeworks:**
The penalty for a late homework is 1% per hour for up to 10% for up to 24 hours late. Submit what you have by then. If you get < 80% on this assignment, you may submit this assignment again after the deadline until the deadline of the next assignment. We will calculate a new grade as the average of the two submissions, up to a maximum of 80%.

**Due date:**
Monday, October 26, 11:00pm.

**Note:**
Assignment 3 (and maybe also assignment 4) will come out before the end of October, so you may want to get ahead quickly on this assignment.