UNIVERSITY OF MICHIGAN ❧ SCHOOL OF INFORMATION
Database Applications

Assignment 10 – Secure Login – <u>250pts</u>

Due Date: December November 5th, 2014 (demo in class or before)

Overview

In this assignment you will create a secure login for a database application.

Specifications

In this assignment you will recreate the secure login from http://www.wikihow.com/Create-a-Secure-Login-Script-in-PHP-and-MySQL. You will need to debug some portions of the code, and also make some changes to the connection. Recreate the secure login but use pdo to connect to the database instead of mysqli. You must use pdo to receive any credit. All of the links must also be valid

- login.php: (45%)
  - Validate the input formats
  - Ensure that the user cannot access the **protected_page** unless logged in.
  - Ensure that **logout** truly logs out the user (you can't go back to the protected page)
- register.php: (45%)
  - Ensure that the inputs are valid
  - Ensure that the data is inserted into the database
  - Encrypt the password with a salted value using sha512   salt?
- Style the pages with css (5%)
- Change the code to use POST/REDIRECT and session variables instead of GET parameters so that you can refresh your page and not see the error messages again. (5%)

You will not be creating very much new code. And the changes you make sure be minimal. However, you will need to go through the code carefully to follow what is going on. Use inspect element so you can see the variables/values being passed (you will be surprised). When accessing variables, make sure to be clear if you should be using $_POST['var'], $row['var'], $var.

Chuck has posted a javascript tutorial which you may find useful when figuring out how the password is generated in the js/forms.js file.

I will post a working demo asap.