ITMD 462/562
Web Site Application Development

Lecture 9

Fall 2015 – October 28, 2015

Tonight's Agenda

- Authentication Demo (Basic use of password functions)

- Database Demos PDO

Basic Authentication

- Use the php password functions if you are using 5.5.

- Store something in the session if authentication is good. Typically username.

- Check that session variable each page load. If it doesn't exist than send to the login page.

- Logout button should destroy the session or unset the value.

Password Hashing

- Never store plain text passwords in your database

- Use hashing and salt to store a one-way encrypted password.

- PHP 5.5 has dedicated password hashing functions – use them

- PHP < 5.5 you need to use the crypt functions

- When the user supplies their password from a web form hash it again and then compare the hashes.

- To keep someone persistently logged in store something like their login name in a session variable.

Password Hashing

- http://php.net/manual/en/faq.passwords.php

- http://php.net/manual/en/book.password.php

- http://php.net/manual/en/function.crypt.php

- http://www.formget.com/login-form-in-php/

- http://stackoverflow.com/questions/1243150/php-sessions-to-authenticate-user-on-login-form

- Let's look at some of these examples

PHP PDO

- We will be looking at using PHP PDO tonight.

- We will first focus on SQLite because of ease of use.

- MySql is similar. Some DDL commands may be different. You need to look up the specific database api you are using.

- Let's do live demos

PHP PDO Resources

- http://php.net/manual/en/book.pdo.php

- http://php.net/manual/en/ref.pdo-sqlite.php

- http://php.net/manual/en/ref.pdo-sqlite.connection.php

- http://code.tutsplus.com/tutorials/why-you-should-be-using-phps-pdo-for-database-access--net-12059

- http://codular.com/php-pdo-how-to

- http://wiki.hashphp.org/PDO_Tutorial_for_MySQL_Developers

- http://www.phpro.org/tutorials/Introduction-to-PHP-PDO.html

- http://www.if-not-true-then-false.com/2012/php-pdo-sqlite3-example/

Assignments

Reading

- If you have not taken those courses you need to read/watch one or more of the following tutorials
  - https://www.codeschool.com/courses/try-sql
  - http://www.w3schools.com/sql/default.asp
  - http://www.tutorialspoint.com/sql/

- Read PHP PDO Tutorial
  - http://code.tutsplus.com/tutorials/php-database-access-are-you-doing-it-correctly--net-25338

- Attempt to create a SQLite Database and MySQL database using the database management applications we discussed in class.

- Good PHP resource -> http://wiki.hashphp.org/Main_Page

Assignments

- Assignment 2 is up and due this Sunday Nov 8 11:59 Chicago time.

- It should be very easy so there will be **NO EXTENSIONS**.

- Basically convert from serialized data files to SQLite PDO database for storage.

- Graduate students need to have very basic authentication