Assignment 2

Summary:
Create a set of web files that implement user authentication.

Details:
Create a set of web files to implement the following functionality. You should create two or more web pages that can be accessed without users logging in. You should also create two or more web pages that require authentication. When an unauthenticated user attempts to access a protected page, the user is sent to a page that offers to log in or to register to the website. You should not use the HTTP Authentication described in chapter 13. Instead, use a form where the user enters a username and a password. Use sessions to keep the user logged in until the user logs out. There should also be a page where a new user can register. Keep users information in a MySQL database. In the database, do not store the password in plaintext. Instead, use salting and hashing. You may use the salting and hashing algorithms of your choice.

For a hands-on experience with SQL injection, create two versions of the login page: one vulnerable to SQL injection and another one that uses proper sanitization. Once a user is logged in, write a message at the top of the page indicating that the user is logged in, and a link allowing the user to log out.

You are welcome to search the internet to help you with this assignment, but indicate the sources in your report, and if you borrow code from some web page, indicate it in a comment at the appropriate place in your pages.

Turn in:
You will need to provide the web pages you created and a report that explains your approach. Include in your report an example of what you should do to exploit the SQL injection on your vulnerable page. Details on how to turn in the assignment will be provided at a later point.

Late Homeworks:
The penalty for a late homework is 10% per day for up to one week late, counting Saturday and Sunday as well. Program may be accepted after one week at a maximum of 50%, but only after you have discussed with me.

Due date:
Tuesday, October 7, 11:59pm.