INFS3202/7202 Practical 4
Server Side Scripting using PHP

You must present this practical to your lab tutor during your scheduled lab sessions in week 7 that starts 16/04/2012. The prac could be done either in lab, or at home.

Preparation

Before attempting this practical you should have a good working knowledge of HTML/XHTML & CSS, the basics of JavaScript, and PHP

Before attempting this practical please ensure:

You have covered the material in Lectures 1 to 5.
You have reviewed the work you did in Practical 1, 2 & 3.
You have installed (if not using lab machines) an Apache and PHP.

We recommend installing:

- For Windows: XAMPP or WAMP
  http://www.apachefriends.org/en/xampp.html
- For Mac: MAMP: http://www.mamp.info/en/index.html
- Linux users can manually configure Apache

If you are using the lab machines, WAMP stores websites under: H:\webpages
For example, create a page called "hello.html", in H:\webpages then start the server:

- Start > All Programs > WAMP > Start Windows-Apache-MYSQL-PHP
- Then, you can view your page in any browser by typing: http://localhost/hello.html

Useful links:

Understand how to receive and process variables from the user when a request is made to the web server: http://php.net/manual/en/reserved.variables.request.php

Use Sessions or Cookies to store state of a user's session:

http://www.w3schools.com/PHP/php_cookies.asp
http://www.php.net/manual/en/book.session.php

Before commencing this practical, create a backup of the work you've done in practical to date (practical 1-3).

Task1: Server-side login and logout by using PHP sessions. (2 marks)

In the last practical, you have implemented simple login using JavaScript cookies. This implementation has a number of flaws, not the least of which is the security of the cookies. To address some of these issues, you are now going to re-implement the login you created in the last practical using PHP sessions instead.

The login form is only required to accept two set of credentials, username “INFS”/ password “3202” and username “infs”/password “7202”. You do not need to be able to log in with any other credentials, nor do you need to be able to register new credentials using the sign up form. The correct credentials should not be stored in any client-side code. The browser should always use a POST request to login. If the user inputs incorrect credentials, the user should not become logged in, and the phrase “Incorrect username/password” should be displayed on the login page, without using a message box or alert.

A successful login should redirect the user to main gallery page. The “login” button or link you placed in last practical should change to “logout”. When the “Logout” link is clicked, the user should be logged out by modifying the session. User should be re-directed to the Login page.

If the user accesses the Login page, and they are already logged in, they should be automatically redirected main gallery page. If the user accesses the annotation page, and they are not logged in, they should not be able to see add new tag form under the image.

Task2. Implement “Remember me” checkbox on the login page (2 marks)

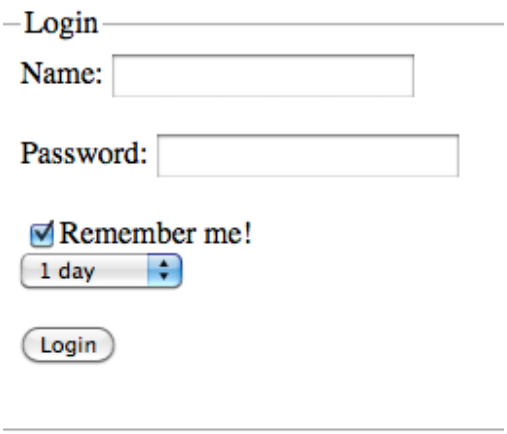
In this task, you will implement a “remember me” checkbox, which will keep your username remembered on future visits.

First, place a “Remember me” checkbox on the login page under password input field. When login with checkbox selected, a cookie will be created using PHP.

Second, put a dropdown list under the checkbox, which can let user choose the valid period of the cookie. There will be two options in it: 1 minute and 1 day.

When logged out and cookie is still valid, username will be automatically shown if the user accesses to the login page again.

The form will look like this:



Task3. File IO. (2 marks)

In practical 3, you are required to design an image annotation page. But there is no any requirement for form submitting. Now, when “submit” button is clicked, the new tags should be written to a file corresponding to the given image. Tags provided by different users are stored in the same file. For example, the image name is “001.jpg”. Its tags file can be named as “001tag.txt”.

The tags inputted by different users are stored in the file as below: