Seminar 2, A PHP Web Application

Internet Applications, ID1354

1 Goal

- Learn the PHP language.
- Learn to use PHP for server-side programming.

2 Grading

The grading is as follows:

0 points The mandatory tasks are accepted and you have passed the seminar.

1 point The mandatory tasks and one higher grade task are accepted. You have passed the seminar and have also gained one point to improve the final course grade, see course plan for details on final grade.

2 points The mandatory tasks and both higher grade tasks are accepted. You have passed the seminar and have also gained two points to improve the final course grade, see course plan for details on final grade.

To pass the LAB1 sub course you must pass all four seminars. If you fail this seminar you have to report it again at the end of the course, at the fifth seminar. You can also report higher grade tasks at the fifth seminar.

3 Auto-Generated Code and Copying

All HTML, CSS and PHP code must be well designed and you must be able to explain and motivate every single part. You are *not* allowed to copy entire files or classes from the sample chat application, even if you understand it and/or change it.

However, you are allowed to write code very similar to the chat application. You are also allowed to copy HTML and CSS from any web site and to use any web development tool, you do not have to write HTML and CSS by hand. In particular, you are encouraged to get inspiration from (or use) free design templates.

4 Mandatory Tasks

Tasks one to three must be solved and reported at the seminar. All those tasks involve storing data permanently on the server. One option for storing data is to use a text file, as in the sample chat application. Another option is to use a database, which is covered in lecture eight. Using a database is also an optional task for seminar three.

Task 1, Authentication

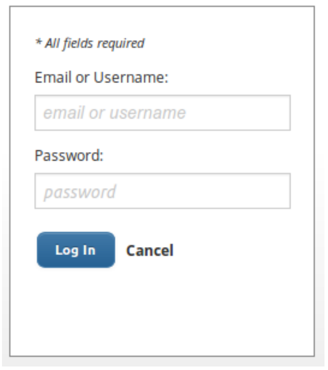


Figure 1: Login form.

Allow users to log in to the tasty recipes web site, by providing a form similar to Figure 1. The login form can either be placed on a new page, or be present on all pages, for example in the header. The login facility must match the style of the web site, this applies to font size, family and style; foreground and background color; mouse hovering and link behavior. None of these properties may have the default value just because it is the default.

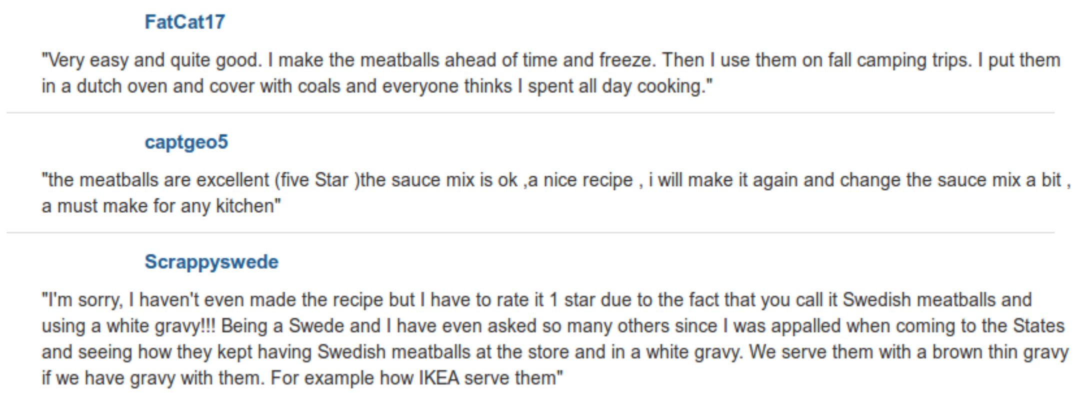
Each user shall have username and password. This data shall be stored on the server, for example in a file or database. You are *not* required to let users register or update user information.

- The report must show that it is possible to log in.
- The report must include parts of PHP code, with explanation. Remember to treat the codes as figures. They shall be clearly separated from the text and have number and caption (*figurtext*). Include only small and interesting parts of the code. Do *not* include long code dumps.

Task 2, Write Comments to Recipes

Users shall be able to write comments to recipes. Only authenticated users, those who have logged in as specified in task 1, can write comments (but all users can read comments). Comments shall be stored permanently on the server, for example in a file or database. Not only the comments shall be stored, but also information about who wrote the comment. The author's username shall be displayed together with the comment, for example as in Figure 2.

- The report must show that it is possible to write comments.
- The report must include parts of PHP code, with explanation. Remember to treat the codes as figures. They shall be clearly separated from the text and have number and caption (*figurtext*). Include only small and interesting parts of the code. Do *not* include long code dumps.


FatCat17

"Very easy and quite good. I make the meatballs ahead of time and freeze. Then I use them on fall camping trips. I put them in a dutch oven and cover with coals and everyone thinks I spent all day cooking."

captgeo5

"the meatballs are excellent (five Star)the sauce mix is ok ,a nice recipe , i will make it again and change the sauce mix a bit , a must make for any kitchen"

Scrappyswede

"I'm sorry, I haven't even made the recipe but I have to rate it 1 star due to the fact that you call it Swedish meatballs and using a white gravy!!! Being a Swede and I have even asked so many others since I was appalled when coming to the States and seeing how they kept having Swedish meatballs at the store and in a white gravy. We serve them with a brown thin gravy if we have gravy with them. For example how IKEA serve them"

Figure 2: User comments to a recipe.

Task 3, Delete Comments to Recipes

Users shall be able to delete their own comments. This can be achieved for example by placing a `Delete` button beside each comment written by the currently logged in user. It is necessary to check, on the server, that the comment being deleted was written by the user who is logged in. If that is not the case, the comment can not be deleted.

- The report must show that it is possible to delete comments.
- The report must include parts of PHP code, with explanation. Remember to treat the codes as figures. They shall be clearly separated from the text and have number and caption (*figurtext*). Include only small and interesting parts of the code. Do *not* include long code dumps.

5 Optional Tasks

Optional Task 1, Register New Users

Allow users to register at tasty recipes. The data of a user account consists of username and password. Create a registration form where users can enter this data. The form shall be placed on a new page, with a style matching the other pages, this applies to font size, family and style; foreground and background color; mouse hovering and link behavior. The username and password of the newly created account shall be stored on the server, for example in a file or database, and used at login and for managing comments.

- The report must show that it is possible to create new user accounts.
- The report must include parts of PHP code, with explanation. Remember to treat the codes as figures. They shall be clearly separated from the text and have number and caption (*figurtext*). Include only small and interesting parts of the code. Do *not* include long code dumps.

Optional Task 2, XML

Use XML files to store all recipes on the web site. The XML shall be well formed and use the tag set defined in the mycookbok schema, see `http://www.mycookbook-android.com/files/mycookbook.xsd` and `http://mycookbook-android.com/site/my-cookbook-xml-schema/`. Do not store any recipe data in HTML or PHP files. Use for example SimpleXML to parse the XML files, see `https://php.net/manual/en/simplexml.examples-basic.php`.

- The report must show how XML files are parsed and how data is inserted in HTML documents.
- The report must include parts of XML and PHP code, with explanation. Remember to treat the codes as figures. They shall be clearly separated from the text and have number and caption (*figurtext*). Include only small and interesting parts of the code. Do *not* include long code dumps.