

INFO1-CE9224 Lab Assignments

You're not responsible for turning these assignments in. They are for your own benefit so that you can learn in class and I can help you as you go. Choose whichever assignments you'd like in any order.

If you have any questions, please feel free to ask during the lab.

Assignment

This assignment will have you create a content management system (CMS) for an online store. Create a new database and import the [SQL found here](#). It's the same SQL that was used for your homework, so feel free to reuse whichever SQL statements you wrote for the assignment.

Some instructions are purposefully vague because I want you to come up with the answer yourself. If this is limiting you and you can't move past a certain point because the instructions don't make sense, **please ask me** and I'll clarify it for you.

You'll notice that there are **EXTRA** steps marked. Do these last. They add additional complexity, and it's important to get the basics down first.

The following PHP scripts should exist:

- products.php - This script should do the following:
 - Display a form, with fields for product name, description, price, and category. Category should be an HTML select.
 - When a user submits this form (to itself, using POST method), the data should be inserted into the products table.
 - Aside from the form and form handling, the products.php script should also display an HTML table with a list of the products that are in the database.
 - The logic for inserting the data on the form submission should come before the logic for retrieving the products in the database, so new products are shown after the form has been submitted. There are additional ways of doing this, it's up to you how you achieve it.
 - **EXTRA:** Place a delete link next to each product, when someone clicks it, have that product be removed from the database.
- orders.php - This script should do the following:
 - Display a list of orders along with all product data and user data.
 - The orders table in the database is called a "join table" or "pivot table" which means it requires joins to retrieve most of the data.
 - Each order should be displayed in it's own HTML table. Please see the appendix of this assignment for an example.
 - **EXTRA:** The orders table doesn't have a flag specifying whether or not this order has been fulfilled. Add a column called fulfilled, 0 means it's not been fulfilled, 1

means it's been fulfilled. Have the column default to 0. Add this column to the orders.php script. Create a link next to each order to change the status from 0 to 1 and vice-versa.

- users.php - This script should do the following:
 - List the users in the database and their information.
 - The username should be a link to user.php?username=name_here
- user.php
 - This script should only display information if a valid \$_GET['username'] has been specified.
 - If \$_GET['username'] is a valid username, display all of their orders underneath.
 - If \$_GET['username'] is not specified or is not valid, redirect back to the users.php script.

When you're writing the code for this, you'll notice that sometimes you're writing the same code over and over again. This means you should abstract the behavior into a function (or 2+ functions). The last thing we mentioned in class today was how to include additional PHP files to promote code reuse. Create a functions.php script with all of your functions, and include this in the top of the scripts mentioned above, so you can reuse code.

EXTRA: You've now learned everything required in order to build a serious and fully featured CMS. Go back a few lessons and now add login.php and logout.php scripts. Create a new table in the database called administrators that stores usernames and passwords for admins. When a user submits the login form, compare what they've submitted to what's in the administrators table. Only allow them access to the scripts mentioned above if they've already successfully logged in. Place a logout link at the top of each page that will destroy their session data. Once they've been logged out, redirect them back to the login page.