

Lab 6

PHP

Assignment

Read all of the instruction before starting.

This assignment will introduce you to PHP. PHP is executed on the server side (back end) so that clients cannot see any of the PHP code you are running. What is sent to their browser (front end) is HTML, CSS, and JavaScript. PHP will assemble and customize the HTML page sent to the client's browser. In this lab we will simulate a common salesperson's tool which allows them to quote an accurate amount to the user including a variable discount. This page will have a bit of backend logic to it that ensures the discount never takes the price lower than the store's cost. We will simulate a database backend so that we can focus on the PHP interactions. In this lab you will take the starter HTML code, break it up into semantic sections so that it can be included in the PHP created HTML. You will create a single PHP file that will do the following:

- If we bring up the page without a post header and there is no existing cart session variable, then it will give you the basic page shown below.
 - There are no items in the invoice when you start out.
 - The Purchase button is disabled when there is an empty invoice.
 - You can add items to the form by choosing an item from the drop-down menu (we are simulating building these items from a database, there will be an inventory array that will list the items for sale in the PHP which will also be used to create a lookup table using inline JavaScript and will not include the actual seller's cost of the item).

ACME Customer Care Portal

File | D:/Dropbox/Courses/Algonquin%20College/CST8285%20Web%20Dev/ACMEpurchases.html

ACME Corporation
yes we deliver!

Customer Invoice

Item	Retail Cost	Discount	Total
Invoice total			\$0

Purchase

Add Item to Order

Rocket Pack

Item:

Price: Discount: Total:

Add to Invoice

Attention, all discounts will be verified by our software.

ACME Coporation for all that you can scheme up!

- All fields except discount are populated when an item is chosen from the drop-down menu (use JavaScript to populate those fields whenever a drop-down item is chosen, choosing a new item deletes the discount and repopulates the item, price, and total fields).
- When a user enters a discount amount it is automatically formatted with a % sign and the total is adjusted. When submitted the discounted price will be compared on the back end (PHP) with a cost and if the discount is too high then a message will be returned with the submitted form telling them that the discount must be lower for that item. We'll handle that on the returned form. Note that the cost must never leave the backend, the calculations are done there.
- If the discount is acceptable then add (push) the item, the retail cost, discount, and discounted cost to the PHP session multidimensional array variable `$_SESSION['cart']` which you will create in your PHP file.
- If we bring up the page without a post header but there is an existing cart session variable, then our PHP will populate the cart object into the invoice portion of our page and update the total. It will look similar to the page shown below. With the following functionality.
 - Your results should have a list of the items currently in the cart session variable.
 - The purchase button will be enabled and pressing it will launch a simple PHP script that unsets the cart session variable, displays the message "thank you for your purchase", and has a button to go back to the original page without a post header (so that you have a new form).
 - The Add Item to Order form will behave as before.

The screenshot shows a web browser window titled "ACME Customer Care Portal". The address bar shows the file path: "D:/Dropbox/Courses/Algonquin%20College/CST8285%20Web%20Dev/ACMEpurchases.html". The page features the ACME Corporation logo with the tagline "yes we deliver!".

Customer Invoice

Item	Retail Cost	Discount	Total
Anvil	48.00	10%	43.20
Invoice total			\$43.20

Add Item to Order

Rocket Pack

Item:

Price: Discount: Total:

Attention, all discounts will be verified by our software.

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Requirements

Using the starter HTML and CSS code you will create the two PHP pages (both will have the same boilerplate, header, and footer.) In the PHP you will include a list of items that will be used to create the drop-down. Use the provided PHP array definition and create a JS lookup table that will allow you to populate the price field dynamically from the drop-down menu. Do not send the actual cost of the items to the front end! Include a separate JavaScript file for front end validation and form functionality.

Do not use inline CSS, BootStrap, or JQuery for this lab.

Submission

To submit the assignment, you must upload all the files in a .zip. The files will include a single CSS file, a JavaScript file, two PHP files and any images required to correctly render the page. The zipped file must be named the following:

<First Name>_<Last Name>.zip

Note that <First Name> and <Last Name> should be replaced with your first and last name.