

Lab 4: Creating PHP Web Pages for Showing Shopping Cart

The Web pages in the PHP Online Bookstore you created in the previous lab are HTML files. In this lab, you will add a new PHP page named *showcart.php* to show shopping cart content. The Web site has been slightly modified to display a shopping cart image. The shopping cart image links to *showcart.php* page. We will keep all other files as HTML files for this lab. Preview the application at <https://i210.sitehost.iu.edu/>. Browse to Unit 4 > Programming Labs > Lab 04.



Programming styles

Just like any professional document, source code for a computer program needs to be styled by following a set of rules or guidelines. A well-styled program will help programmers to read and understand the code and help avoid introducing errors. Please make sure you leave blank spaces between sections of code and indent your code. To properly indent your code in PhpStorm, choose Code > Reformat Code. A well-styled program is also well commented. Add plenty of comments to your code and comment your code as you type it.

Getting ready

1. Download the *lab04.zip* file from Canvas. Extract it into the **htdocs/I210** folder. The extraction should create the **Lab04** folder inside **I210**. Do not change file names and the hierarchical structure.
2. Start PhpStorm and open *Lab04/index.html* from the **I210** project. Run the file to view the Web page in a browser. Click on the shopping cart image to display the show cart page. The page

currently displays the h2 heading “My Shopping Cart” and the headings for the shopping cart content. The div blocks for the shopping cart content are already provided to you.

Modifying the *showcart.php* file

3. Open *showcart.php* in PhpStorm.
4. At the top of the file put your name and today’s date in PHP comments.
5. Move down to the body section. Right below the opening <body> tag, locate the PHP code block.
6. Inside the PHP block, define one constant for the tax rate:

| Name | Value |
|----------|-------|
| TAX_RATE | 0.07 |

7. Now, define variables for book prices and quantities:

| Name | Value |
|-----------------------------------|-------|
| civilwarbattlefieldguide_price | 21.04 |
| civilwarbattlefieldguide_quantity | 2 |
| greatjourney_price | 11.99 |
| greatjourney_quantity | 1 |

8. Next, define variables for each book’s subtotal, the subtotal of all books, tax, and order total. Use the following formulas to calculate their values.

| Variable Name | Formula |
|-----------------------------------|--|
| civilwarbattlefieldguide_subtotal | price * quantity |
| greatjourney_subtotal | price * quantity |
| subtotal | civilwarbattlefieldguide_subtotal + greatjourney_subtotal |
| tax | subtotal * tax rate |
| total | subtotal + tax |

9. Move down to the div block that is associated with the class of “booklist”. This div block displays a row of headings as well as two books.
10. Complete the two books by outputting their prices, quantities, and subtotals. You must use “echo” to display values of constants and variables created in the last steps.
11. Locate the h3 heading that read “Order Summary”. Below the <h3> heading, insert a div block for displaying order summary (see screen shot above). Set the div block’s class attribute to “order-summary”.
12. Inside the div block, there are three lines of text. For each line of text, create a div block. It should contain a strong static text, followed by a span element. For example, the code for the first line should read:

```
<div><strong>Subtotal:</strong><span> ..... </span></div>
```

13. Use the **printf** command to display the content of each span element. Be sure you display a dollar sign and format the dollar amount as a float with two decimals.
14. Save the file. Test your application thoroughly.

Turning in your lab

I210 Information Infrastructure I

Your work will be evaluated on completeness and correction. Thoroughly test your code before you turn it in. It is your responsibility to ensure you turn in the correct files. You will NOT receive any credit if you turn in the wrong files whether you've completed the lab.

15. Zip the entire **Lab04** folder and save it as *lab04.zip*.
16. Upload the *lab04.zip* file in Canvas before the lab's deadline.

Grading rubric

Your lab will be assessed according to the following grading rubric. You should very closely follow the instructions in this handout when working on the lab. Small deviations may be fine, but you should avoid large deviations. You will not receive credits if your deviation does not satisfy an item of the grading rubric. Whether a deviation is small or large and whether it satisfies the requirement are at your grader's discretion. Here is the breakdown of the scoring:

Modifying the *showcart.php* file (15 points)

| Activities | Points |
|--|--------|
| Define constants, variables and set their values. Calculated values must be calculated. | 8 |
| Use "echo" or "print" to display order details. Need to display a dollar sign in front of dollar amount. | 3 |
| Create a div block and set its class for order summary | 1 |
| Create div and span elements to display order summary. Need to format the numbers as currency. | 3 |

Programming style (5 points)

| Activities | Points |
|--|--------|
| Comment your code | 3 |
| Use white spaces to separate code sections | 1 |
| Indent and line up code | 1 |