

For this assignment, you will complete a simple shopping cart application.

**You will turn in one ZIP archive with the following files:**

- \* cart.xlsx with all values defined
- \* a copy of your mySQL database
- \* all files associated with your shopping cart
- \* all user IDs and passwords created for testing purposes
- \* **Note:** Poorly organized files, inefficiently written code, and/or lack of properly commented code may result in a lower grade

**Part I**

**Points:**

cart.xlsx	10
conn.php	5
header.php	5
footer.php	5
create.php	10
& createtemp.php	
& products.php	
index.php	10
getprod.php	5
modcart.php	20
checkout.php	30
& checkout2.php	
& checkout3.php	

You are required to use the table structure, and fields defined in class. You do, however, need to finalize many field's: *type, length/Values, Default, Null, Index and AUTO-INCREMENT* values.

Start by creating your database, tables, and sample data. You should use PHP to help automate this process.

When someone visits your store, they should be presented with a list of the products you are selling, a thumbnail image, and price. Ideal stores will display the thumbnail image on the screen below.

Thanks for visiting our site! Please see our list of awesome products below, and click on the link for more information:

<a href="#"><u>THUMBNAIL IMAGE</u></a>	<a href="#"><u>CBA Logo T-shirt</u></a>	<a href="#"><u>\$17.95</u></a>
<a href="#"><u>THUMBNAIL IMAGE</u></a>	<a href="#"><u>CBA Bumper Sticker</u></a>	<a href="#"><u>\$5.95</u></a>
<a href="#"><u>THUMBNAIL IMAGE</u></a>	<a href="#"><u>CBA Coffee Mug</u></a>	<a href="#"><u>\$8.95</u></a>
<a href="#"><u>THUMBNAIL IMAGE</u></a>	<a href="#"><u>Superhero Body Suit</u></a>	<a href="#"><u>\$99.95</u></a>
<a href="#"><u>THUMBNAIL IMAGE</u></a>	<a href="#"><u>Small Grappling Hook</u></a>	<a href="#"><u>\$139.95</u></a>
<a href="#"><u>THUMBNAIL IMAGE</u></a>	<a href="#"><u>Large Grappling Hook</u></a>	<a href="#"><u>\$199.95</u></a>

Figure 1. index.php

Clicking on a product should bring the visitor to a product detail page. In place of PRODUCT IMAGE, display the thumbnail image. You may use a placeholder for the image. From this screen, the user may:

1. Select a quantity and add it to their cart.
2. View their cart
3. Return to the home page

<b>PRODUCT IMAGE</b>	<b>CBA Logo T-shirt</b> This T-shirt will show off your CBA connection. Our t-shirts are high quality and 100% preshrunk cotton.
	Product Number: 00001 Price: \$17.95 Quantity: <input type="text"/> <input type="button" value="Add to cart"/> <input type="button" value="View cart"/>
	<hr/> <a href="#">Go back to the main page</a>

Figure 2. getprod.php

After an item has been added to the shopping cart, the customer should be shown their shopping cart. The cart should be able to identify the total number of products in the cart. From this screen, the customer should also be able to update the quantity associated with an item, and delete the item. In addition, provide options for the customer to empty their cart, proceed to checkout, or return back to the main page of the store.

Item added. You currently have 3 product(s) in your cart.						
Quantity	Item Image	Item Name	Price Each	Extended Price		
5	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Logo T-shirt</a>	17.95	89.75	<a href="#">Change Qty</a>	<a href="#">Delete Item</a>
2	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Coffee Mug</a>	8.95	17.90	<a href="#">Change Qty</a>	<a href="#">Delete Item</a>
3	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Logo T-shirt</a>	17.95	53.85	<a href="#">Change Qty</a>	<a href="#">Delete Item</a>
Your total before shipping is:				161.50	<a href="#">Empty Cart</a>	
<a href="#">Proceed to Checkout</a>						
<a href="#">Go back to the main page</a>						

Figure 3. modcart.php

Your shopping cart should require the user to login when they are ready to checkout. Rather than create a process for setting up new users, setup at least one sample customer to use for testing.

The shopping cart should ask for the following billing and shipping information (below), and allow the customer to select 'Shipping Info same as Billing' so they do not have to duplicate entry of information. In the first screen, the user will enter their information on the second they will have the opportunity to confirm the information they provided, and to confirm the contents of their shopping cart. Note that the customer may still make changes to their cart at this point.

Billing Information		Shipping Information	
First Name	Tim	Shipping Info same as Billing	<input type="checkbox"/>
Last Name	Krause	First Name	Tim
Billing Address	190 shore acres drive	Last Name	Krause
Billing Address 2		Billing Address	190 shore acres drive
City	Wisconsin Rapids	Billing Address 2	
State	WI	City	Wisconsin Rapids
Zip	54494	State	WI
Phone Number	715-819-0401	Zip	54494
Fax Number		Phone Number	715-819-0401
E-Mail Address	tkrause@uwsp.edu	E-Mail Address	tkrause@uwsp.edu

  

Quantity	Item Image	Item Name	Price Each	Extended Price	
5	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Logo T-shirt</a>	17.95	89.75	<a href="#">Make Changes to Cart</a>
2	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Coffee Mug</a>	8.95	17.90	<a href="#">Make Changes to Cart</a>
3	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Logo T-shirt</a>	17.95	53.85	<a href="#">Make Changes to Cart</a>
2	<a href="#">THUMBNAIL IMAGE</a>	<a href="#">CBA Coffee Mug</a>	8.95	17.90	<a href="#">Make Changes to Cart</a>
Your total before shipping is:					179.40
<a href="#">Send Order --&gt;</a>					

Figure 4. *checkout2.php*. Note that *checkout.php* will be the same, except for noting the **Step**. *Checkout.php* may or may not have a summary of the order. The information submitted in step 1 of *checkout* should be stored in the database before step 2. Any changes during step 2 should then be stored.

In the final step, the customer should be presented with a recap of their order that resembles the following:

<b>Step 1 - Please Enter Billing and Shipping Information</b>	
<b>Step 2 - Please Verify Accuracy and Make Any Necessary Changes</b>	
<b>Step 3 - Order Confirmation and Receipt</b>	
Here is a recap of your order:	
Order date: 2011-10-16	
Order Number: 1	
Bill to: Tim Krause 190 shore acres drive Wisconsin Rapids , WI 54494	Ship to: Tim Krause 190 shore acres drive Wisconsin Rapids, WI 54494
5 CBA Logo T-shirt 17.95 89.75	
2 CBA Coffee Mug 8.95 17.90	
3 CBA Logo T-shirt 17.95 53.85	
2 CBA Coffee Mug 8.95 17.90	
Your total before shipping is: 179.40	
Shipping Costs: 44.85	
Your final total is: 224.25	

*Figure 5. checkout3.php*

Assume that shipping is \$4.95 per item (quantity) ordered. We're also assuming that our shopping cart would next perform a hand-off to a site like PayPal to handle credit card processing.

## **Part II**

In Part II, you will enhance your shopping cart, and may earn up to **100** additional points.

1. Revise the shopping cart so that the home page has a mini version of the shopping cart that allows the user to perform the same tasks as in the original version. Redesign the cart so that it is aesthetically pleasing and uses a much smaller amount of screen real estate. **50 points**
2. Write the validation rules that you feel are appropriate for the checkout process. Redesign the billing and shipping fields to ensure that errors are displayed in a manner that is useful to the shopper. **50 points**
3. Create a shipping and taxes module. For taxes, set a different tax rate for at least two different states for testing purposes. For shipping, allow the user to choose between *normal* shipping (\$4.95 per item) or *expedited* shipping (\$6.95 per item). The customer should be able to change the shipping type, and the total order cost should update accordingly. **50 points**
4. Assume that you've written this shopping cart for a customer who has now decided that they don't want to use Paypal any longer. Research 3 alternatives (Note: credit card processing only; the client will keep their existing shopping cart). You need to identify all of the costs associated with each solution. Assume that your customer averages 50 transactions per month, at an average of \$45 per sale. Which solution is most cost effective? What are the other advantages and disadvantages of each? **50 points**
5. Based on the preceding examples, identify your own enhancements to the shopping cart. Draft a proposal and submit to Prof. Krause for approval. **50 points**
6. Based on our discussion about security, significantly revise the shopping cart to make it more secure. Include documentation of the work that you conducted, and any related research. **50 points**