

CSCI 135: Scalable Software Architecture

Claremont McKenna College

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Problem Set 3

1 Instructions






Create a folder on your computer named **ps3_lastnamefirstname**. You will include all files required for this assignment in this folder. When you are ready to turn-in your assignment, you will compress (ZIP UP) your folder and submit the ZIP file to the 'Assignments' area on Sakai.

2 Girl Scout Cookies (GSC)

You will improve the GSC (Girl Scout Cookie) example given in class to offer a better display of the customer's orders, and design a database to manage the orders that are created.

1. Complete viewcart.php (see sample snapshot below)
 - (a) Update viewcart.php in the GSC example to display the shopping cart in a more elegant way, because currently the page displays the shopping cart using the PHP `print_r` function which is crude to say the least.
 - (b) The page should display the various items in the shopping cart (types of cookies and the quantities of each cookie) and the total amount for the order.
 - (c) The page should allow the user to edit the quantities and delete items from the shopping cart.

Girl Scout Cookie Shopping Cart

	Cookie	Quantity	Price	Edit
	Thin Mints	1	\$5	<input type="text"/> <input type="button" value="Delete"/>
	Thank U Berry Munch	5	\$25	<input type="text"/> <input type="button" value="Delete"/>
	Lemon Chalet Cremes	3	\$15	<input type="text"/> <input type="button" value="Delete"/>
	Tagalongs	1	\$5	<input type="text"/> <input type="button" value="Delete"/>
	Samoas	3	\$15	<input type="text"/> <input type="button" value="Delete"/>
	Total	13	\$65	<input type="button" value="Update"/>

[Resume shopping](#)

[Check out](#)

2. Complete checkout.php

- (a) Update checkout.php in the GSC example to also display the order more elegantly, but also include a form to collect the following information:
 - i. Customer Info: name, address (street, city, state, zipcode), email, phone number.
 - ii. Girl Scout (who refereed the customer): girl scout name, and troop name
 - iii. Order: a list of (cookie type, quantity)
- (b) First use front-end (JavaScript) to validate userinput (for example, ensure all fields are non-blank, and certain fields like zipcode are of valid type.
- (c) Second use server-side validation to validate userinput.
 - Validate that fields are non-blank.
 - Validate Username or Girl Scout Name is greater than 3 characters and only contains characters a-z.
 - Validate email and phone number is of the right format.
 - Validate address fields.
- (d) Finally, add AJAX to one field (for example Zipcode) to auto-populate or suggest input based partial input from the user. Note, this means you will need to add both JavaScript code to make the AJAX call and PHP code to handle the call and return the appropriate results.