Course:	INFO1232, Javascript I
Professor:	Daniel Malnati
Project:	Lab 8
Due Date:	Sunday, April 19th @ 11:59 pm
Submitting:	FOL Submissions folder, Lab 8
Student Name:	

Lab Description

- 1. Download "StarterCode_Lab8" from the FOL Submission Folder "Lab 8", rename the html file with your first name followed by an underscore and then "Lab8". For example, "Daniel_Lab8.html".
- Your Web Page will act as an inventory management tool for a grocery store. The tool will display the expired products in the store and calculate the amount of money the store has lost to wasted(expired) product.
- **3.** Create a constructor for the Product object, which will have the following parameters:

Product		
name	String – the name of the product	
department	String – the section of the store responsible for the product	
price	Float – the price of the item	
expirationDate	Date Object – detailing the expiration date of the product	

- **4.** The starting code already has a global array for products, as well as a bunch of code calling the constructor to create some product objects and push them to the array. Feel free to add more if you like.
- **5.** Create the following methods for the Product Object:

isExpired This function should return a Boolean. ■ If the product is expired return true. ■ If the product is not expired return false. Use the Date Object methods to determine this. (Current time – Expiration Time == Difference) ■ If the difference in time is a negative, the expiration date has not passed yet. ■ If the difference in time is a positive, the expiration time has passed.
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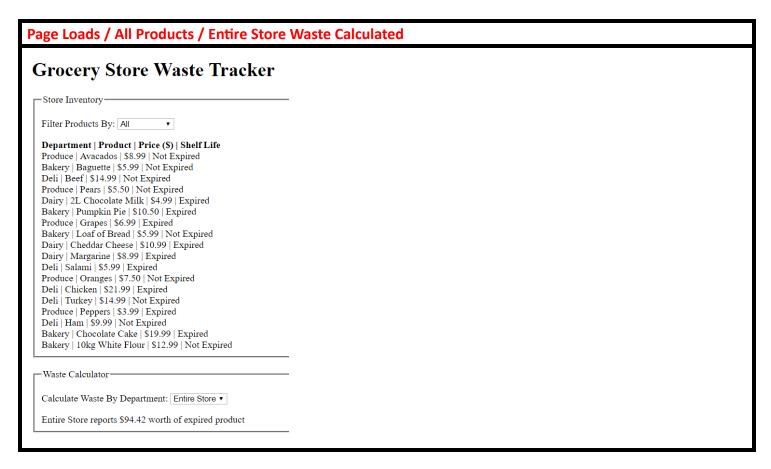
outputString	This function should return a string Concatenate the products properties into a readable string and return it. • The order of the properties should match the web page (Department, Product, Price, Shelf Life) • Separate each property with the ' ' character • For the "Shelf Life" property, call the product this.isExpired() method and concatenate either Expired or Not Expired	

6. Create the following functions for the Web Page events:

calculateWaste()	This function will output the total amount of waste		
	each department has of expired product.		
	Entire Store – Calculate total cost of expired product		
	for all the departments.		
	Bakery – Calculate total cost of expired product for the bakery department ONLY.		
	Etc		
	In your function:		
	 Using the dropdown, loop through and 		
	determine which products in the array you		
	will using to calculate.		
	o If the product department matches		
	the one in the dropdown.		
	 If the product is expired add it 		
	to a totalExpiredAmount		
	variable outside of the loop.		
	Outside of the loop:		
	o If there was no expired product for		
	the selected department. Ouput:		
	[Department] reports no expired product!		
	o Otherwise, Output the amount the		
	department has lost from waste:		
	[Department] reports \$99.99 worth of expired		
	product!		
	See sample output below		

displayProducts()	This function will output products depending on the	
	filter.	
	All – Everything outputs	
	Expired – Only Expired Products Output	
	Not Expired – Only Non-Expired Products Output	
	In your function:	
	 Using the dropdown value, loop through and 	
	determine which products in the array you	
	will output. (Use the isExpired() you created	
	to determine if the product is expired or not)	
	 Use the outputString() method you created to 	
	output to the div.	
	Be sure to clear anything that was in the output area	
	before outputting.	

Marks	What are Marks Awarded For?	Earned
1	Comments	
	Page documentation including name, date, purpose	
	Script comments for each process	
1	No Errors	
	Page does not throw any errors on load	
1	Clean Output	
	Output is easy to read and does not output over existing data	
	(Web page runs and meets the lab requirements)	
5	Product Constructor and Methods	
	Constructor uses 4 parameters to create object	
	isExpired is a method of the Product Object	
	 outputString is a method of the Product Object 	
	isExpired behaves correctly	
	 outputString behaves correctly 	
3	Display Inventory	
	Outputs based on dropdown selection Correctly	
	Uses isExpired to output the correct products	
	 Uses outputString to format a string for the product to be output to the webpage 	
3	Calculate Waste	
	Outputs if no expired product is detected	
	Outputs total amount of expired product correctly based on dropdown selection	
	Uses the Product methods in the function	
14	Total	



Expired Products / Department with Waste Non Expired Products / Department without Waste **Grocery Store Waste Tracker Grocery Store Waste Tracker** -Store Inventory -Store Inventory-Filter Products By: Expired ▼ Filter Products By: Not Expired ▼ Department | Product | Price (\$) | Shelf Life Department | Product | Price (\$) | Shelf Life Dairy | 2L Chocolate Milk | \$4.99 | Expired Produce | Avacados | \$8.99 | Not Expired Bakery | Pumpkin Pie | \$10.50 | Expired Bakery | Baguette | \$5.99 | Not Expired Produce | Grapes | \$6.99 | Expired Deli | Beef | \$14.99 | Not Expired Dairy | Cheddar Cheese | \$10.99 | Expired Produce | Pears | \$5.50 | Not Expired Dairy | Margarine | \$8.99 | Expired Bakery | Loaf of Bread | \$5.99 | Not Expired Deli | Salami | \$5.99 | Expired Produce | Oranges | \$7.50 | Not Expired Deli | Chicken | \$21.99 | Expired Deli | Turkey | \$14.99 | Not Expired Produce | Peppers | \$3.99 | Expired Deli | Ham | \$9.99 | Not Expired Bakery | Chocolate Cake | \$19.99 | Expired Bakery | 10kg White Flour | \$12.99 | Not Expired -Waste Calculator --Waste Calculator -Calculate Waste By Department: Bakery Calculate Waste By Department: Vegan Bakery reports \$30.49 worth of expired product Vegan reports no wasted product!