Assignment 2

Important Notes:

- This is an individual assignment.

- I will be checking for borrowed or copied assignments. All work is to be done from scratch, you may not use any templates or other assistances.

- This assessment is out of 20 marks total.

- _All the HTML/CSS/JS must be coded by you from scratch. Any function names, class names, CSS styles, HTML layouts, etc. that match with the class exercises will be awarded zero marks._

1. Programming Tasks:

In this assignment, you are to develop an application using forms for a self-order kiosk. The client wants an application where the users can fill a form and be given a receipt. The kiosk business, sale items and inventory are left to your discretion. At this time, you do not have to process the forms on the server side or save the data into a database. You are only required to do **client-side programming** where the code runs in the browser.

HTML Requirements (2 Marks):

- _Do not use any pop ups through out this assignment_.

- To order, the customer needs to enter their name, phone and credit card information.

- Make sure there are at least 4 items available for sale. A customer must be able to buy zero or more of any given items.   _eg: 10 apples, 2 oranges, etc_.

JavaScript Requirements:

- All JavaScript code must be located in an external script file. **(1 mark)**

- The following user inputs must be validated:

  Do not use input type number, required attribute or other validations in HTML. You must do the validations in client-side JavaScript only.

  - 2 Mandatory fields name and phone. **(1 mark)**

  - Fields with specific format **(3 marks)**:

    - Credit Card in format **xxxx-xxxx-xxxx-xxxx**.   _eg: 4111-1111-1111-1111_

    - Credit Card Expiry Month in format: **XX**.   _eg: 01, 12, 08_

    - Credit Card Expiry Year in format: **YYYY**.   _eg: 2022, 2023_

  - No order can be for less than $10. _(Make sure the price of some items is less than $10 to be able to test this validation.)_ **(2 marks)**

- A GST of 13% of the total price of items they are buying is charged. Automatically calculate the GST amount based on the total purchase. **(2 marks)**

- If any errors exist, display all the error messages on the web page. *Do not use a JavaScript popup box for this purpose or show only one error at a time.* **(1 mark)**

- Generate a receipt to give to the customer with the information like name, phone, items, quantity, GST, total cost, etc. **(2 marks)**

2. Video demo explaining your code and showing the final execution of the assignment. **Make sure to showcase all the features of your application like filling the product quantity, customer name, all the validations and receipt.** For the video demo, you are not required to use your camera, but you can if you want. You are only required to record your screen and your voice explaining the solution and your code. **Please submit .mp4 files only.** You can use Zoom/PowerPoint for doing that, but you can use any other software for recording the video too. **(4 marks)**

3. Programming style, standards and overall completion of the tasks. **(2 marks)**

   It is a good idea to practice conforming to a set of programming standards. Refer to the posted summary of the IT Standards posted in IT Programs > General Resources.

   You can choose the design, fonts and colors as per your preference as long as you fulfill the minimum requirements mentioned above. You can name your store as per your liking and the product names too.

Submissions:

To submit this assignment:

1. Place all of your code into a single folder. Zip this folder and submit the zipped file to eConestoga. No cover sheet is required for this assignment. A good way to make sure everything is correct; is to unzip the file you are submitting on a different location on your computer and making sure everything works.

2. **Upload the video explanation separately from your code zip file.** Please do not zip your video with the code. You may have to make a second submission for that as the dropbox only allows you to submit one file at a time. **Submit .mp4 files only for the video.**

Note: You can submit multiple times if you want. Please mention in comments which submission to evaluate. Also note that if you resubmit after the due date, late penalties apply as per your Program Handbook.

Wireframes: Here are some wireframes to give you an idea. You do not have to follow this design. You can use your own design.

Input form:

Awesome Kiosk

Bringing some magic to your world!

Name	First Last	Fairy Dust Bottles ($5)	10
Phone	xxx-xxx-xxxx	Wizard Wands ($20)	10
Credit Card Number	xxxx-xxxx-xxxx-xxxx	Flying Broomsticks ($200)	10
Credit Card Expiry Month	XX	Magic Candy Bags ($10)	10
Credit Card Expiry Year	YYYY	Sorcerer's Stones ($300)	10

Checkout

Receipt:

Let us set you up with some magic!

Name	Hermione Granger
Phone	519-123-4567

Item	Quantity	Unit Price	Total Price
Fairy Dust Bottles	2	$5.00	$10.00
Magic Candy Bags	9	$10.00	$90.00
		Sub Total	$100.00
		GST	$13.00
		Total	**$113.00**