**SENECA POLYTECHNIC**

**FACULTY OF CONTINUING EDUCATION**

**FINAL EXAMINATION- 2247**

**SUBJECT NAME: WEB PROGRAMMING PRINCIPLES**

**SUBJECT CODE: WEB222V1Q**

**EXAMINATION DATE: DECEMBER 7th, 2024**

**INSTRUCTOR NAME: GEORGE TSANG**

**TIME ALLOTTED: 3 HOURS**

**MARKS ALLOTED: 100**

**WEIGHTING: 30%**

**SPECIAL INSTRUCTIONS:**

Exam Aids: Permitted: X Not Permitted:

Approved by:

Sheri Ladoucier

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Sheri Ladoucier, Academic Program Manager

**Academic Policy Section 9:**

**Engaging in any form of academic dishonesty to obtain any type of advantage or credit is an offence and will not be tolerated by the College. Such offences under this policy include, but are not limited to, cheating, plagiarism, falsification, impersonation, misrepresentation and procurement.**

WEB222V1Q

Mini Project – Shop

You are required to create a furniture shop online order webpage that presents a list of available chairs of various styles.

### Assignment Specifications

Your HTML/CSS/JavaScript deliverable must address the following:

Webpage

The initial state of your webpage is to present:

* An **<h1>** heading
* An empty **<article>** container with border

A blue rectangle with white background

Description automatically generated

* Double-clicking the container will result in the presentation of
  + Product names with their respective unit price and a textbox for entering number of units to be ordered
  + A submit button

A screenshot of a computer

Description automatically generated

* The HTML elements inside the container are NOT hardcoded in HTML but are dynamically generatedwith JavaScript object (e.g., DOM) methods
* The products that are to be displayed are limited to chairs only
* Once the product names and pricing are loaded to the container, the user of the webpage is to respond by entering their order in the textboxes

A screenshot of a computer

Description automatically generated

* After selecting the radio buttons, the user is to select the **Submit** button for tabulation

A screenshot of a computer

Description automatically generated

* Total number of ordered products and total dollar amount are tabulated and displayed in an **alert** dialogue box

Technical Specifications

* Code one HTML/CSS/JavaScript webpage application that presents product information that are in an array
* The individual array elements may be objects

[

{ product: "Adirondack Chair", type: "c", price: 100 },

{ product: "Barcelona Chair", type: "c", price: 150 },

{ product: "Chaise Longue", type: "c", price: 500 },

{ product: "Chesterfield Chair", type: "c", price: 800 },

{ product: "Coffee Table", type: "t", price: 900 },

{ product: "Dining Table", type: "t", price: 1500 },

{ product: "Director’s Chair", type: "c", price: 660 },

{ product: "Eames Lounge Chair", type: "c", price: 1000 },

{ product: "Foyer Table", type: "t", price: 600 },

{ product: "Patio Table", type: "t", price: 450 },

{ product: "Rocking Chair", type: "c", price: 350 },

{ product: "Side Table", type: "t", price: 200 },

{ product: "Stacking Chair", type: "c", price: 80 },

{ product: "Wingback Chair", type: "c", price: 950 },

{ product: "Wishbone Chair", type: "c", price: 250 }

]

Or the individual array elements may be arrays themselves

[

[ "Adirondack Chair", "c", 100 ],

[ “Barcelona Chair", "c", 150 ],

[ “Chaise Longue", "c", 500 ],

[ “Chesterfield Chair", "c", 800 ],

[ “Coffee Table", "t", 900 ],

[ “Dining Table", "t", 1500 ],

[ “Director’s Chair", "c", 660 ],

[ “Eames Lounge Chair", "c", 1000 ],

[ “Foyer Table", "t", 600 ],

[ “Patio Table", "t", 450 ],

[ “Rocking Chair", "c", 350 ],

[ “Side Table", "t", 200 ],

[ “Stacking Chair", "c", 80 ],

[ “Wingback Chair", "c", 950 ],

[ “Wishbone Chair", "c", 250 ]

]

* You are free to choose to use either one of the two array formats
* Each array element contains the product name, the product type (“c” for **chair**, “t” for table) and the product unit price
* For example, the product “Chaise Longue” is considered as a chair and its unit price is $500
* Recommended JavaScript object methods are: **createElement**, **createTextNode**, **setAttribute**, **appendChild**, **getElementById**, and **addEventListener**
* The application/usage of the following are strictly prohibited:

1. Changing the layout and structure of the product array provided
2. Hardcoding of HTML elements other than the heading and the container
3. The **<div>** element
4. DOM methods **querySelector** and **querySelectorAll**
5. **Regular Expression**

Project Requirements

* Submit your deliverables BEFORE the end of the exam
* The completed mini project is to include one **js** file, one **html** file and one **css** file all compressed into one **zip** file
* Usage of any bootstrap software is prohibited
* Your mini project is to be submitted via Blackboard

**NOTE: Submission of AI generated code using tools such ChatGPT or Copilot will render a score of ZERO.**