CIS 3344 Lab 4 – JQuery

The goal of this assignment is to give you some experience working with JavaScript and JQuery to make a Web page interactive. This assignment will involve implementing more operations in the coffee shop web application you created for a previous assignment. In this assignment, the application will allow the Web Store merchant the ability to modify the menu items that are offered and allow customers to view their order and submit it.

Requirements:

1. Create a Lab4 folder inside the root of your website, which will be used to publish the webpage and images for this assignment.
2. Create the WebStoreManagement.html HTML page that will allow the employees of the coffee shop to manage their menu offerings.
   1. The page must allow the employee to add a new item to the menu.
      1. Create a form that allows the employee to select the category for the new menu item (tea, coffee, pastries, or merchandise), and enter information for the description, title, price, and URL for an image.
      2. Submitting this new item should involve creating an object that stores the form data and adding it to the list of menu items that will be displayed to the users of the web store.
   2. The page must allow the employee to modify an existing item on the menu.
      1. Allow the employee to find or select a menu item that they would like to modify, display the menu item’s information in a form, and allow the employee to modify the data. For example, the user may want to change the price and description for their expresso coffee menu item.
      2. Save the changes to the menu object item stored in the list of menu items.
   3. The page must allow the employee to find and delete an existing item on the menu.
      1. This operation should remove the menu item from the list and no longer be displayed in the menu to customers.
   4. Use JavaScript to implement the interactive behavior of the page.
      1. Create a JavaScript class with the necessary properties and methods to store a menu item and its associated data.
      2. Create a JavaScript class with the necessary properties and methods to store a customer’s order.
      3. Modify the objects and array from the previous lab to use these classes instead of generic JavaScript objects.
      4. Implement input validation where necessary. For example, the application shouldn’t allow the user to add a menu item without a valid price, title, category, etc…
      5. Implement all the functionalities of this page using JQuery.
3. Create the Order.html HTML page that will allow the customers to view their current order and submit their order.
   1. The page should display the items the customer has selected from the menu along with the total with tax.
   2. Allow the customer to remove items from their order.
   3. Allow the customer to enter payment information, submit the order, and display an order confirmation.
   4. Submitting the order should involve creating an order object with the necessary information and storing the order object in an array of orders.
   5. Implement input validation where necessary.
   6. Implement all the functionalities of this page using JQuery.
4. The application should use LocalStorage and SessionStorage to store the data used in the application.
   1. The menu items should be stored in LocalStorage.
   2. The customer’s order should be stored in SessionStorage until it is purchased.
   3. Orders that were successfully purchased by customers should be stored in LocalStorage.
5. Also, you need to use CSS to style the page and make it look professional and attractive.
6. Remember to add a section to the labs.html page created in Lab 1 for this lab.
   1. Include a description of what you learned, what elements you liked/disliked, and a link to the page you created for Lab 4.
7. Extra credit opportunity:
   1. Implement the ability to allow the employee to see all the orders made by customers using the application.