Technical Report - Group #43

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Design and Layout:

We wanted our project to remain very minimal and pleasing to the eye, but also very striking. This lead to our choice of a soft font for our logo and clean white content area, but bright, vibrant, and fun colors for our nav bars. The content is easily visible and concentrated in the center of the page for easy viewing, on all of our pages.

Logic:

The main functionality of our program currently is the ability to present and hide information, which is all being done through JavaScript. Each of our paintings/artists/etc are stored as JS objects containing the item's information, and each item is being stored in an array relative to their type (Artwork,Artist,Museum). When a specific item needs to be displayed, a JS function is initiated by mouse click and the clicked item is accessed through the array, at which point the various pieces of information are picked out from the object and then displayed on the screen.

HTML:

The HTML for the second assignment has remained relatively the same in structure compared to our first assignment with some minor changes to meet the new requirements. Specifically, the new home page which requires drop down lists, the ability to display information based on those list items, and the shopping cart. We simply display the pieces from the dropdown lists on the home page and have the first item from the art list already displayed so the users are presented with initial information and have an idea of what will be shown there. We retained the same visual structure as the first assignment as it looks quite appealing, and continued to use modal boxes to present information as they are an amazing way to present new information without having to load new pages. The majority of our HTML consists of navbars, divs and lists to display all our current information as they are the most ideal and flexible types for our content.

CSS:

The CSS also hasn't changed much from our first assignment other than some tweaks to better present the new formats of information (Home page, dropdowns, shopping cart). As mentioned above we decided to keep the same visual style as the first assignment as we all really like the design. CSS is being used on pretty much every element of our project but the majority of our efforts went into the modal boxes which are key for presenting information, and our nav bars as they are the only aspect of the web site which represents our 'brand' and gives the user as a sense of our professionalism/reliability. (Ex. A clean interface gives shoppers more confidence shopping with you compared to a janky/messy navigation bar)

JS:

We touched on it a little bit above in the logic section, but the majority of JS is being used to display/hide the information on various pieces and artists on our site. We are just using vanilla JS and are setting the information through the innerHTML like so:
document.getElementById("someID").innerHTML = something. We have a couple different functions which are called depending on the type of item being shown (Ex. Paintings have values such as type, colors, etc, while an Artist will have different values). We used JS objects to store the information for each object as there are quite a lot of descriptions for each item, so attempting to store them in nested arrays would be too messy. Instead we store each JS object in their respective array so we can get the ease of access provided by arrays and the cleanliness of objects. We also used JS for the simple calculations in the shopping cart for calculating the cost of buying a piece.

Bootstrap:

We used Bootstrap to help with the layout of our assignment. Bootstrap is extremely useful for the grid system it provides, which we are using to cleanly layout our application. Additionally, the grid is useful for adapting to multiple screen formats/sizes which increases the accessibility of our web site, although we have not yet managed to get very small and mobile formats to completely function correctly.

Schedule Table

General: Initial modal display boxes and Js functionality, page layout, and design done by McKenzie.
Task 1: Initial home navbar done by Maria. Clean up and second navbar done by McKenzie.
Task 2 & 4: Initial display done by Maria. Clean up/formatting done by McKenzie.
Task 3 & 5: Initial functionality done by Danylo. Clean up/formatting done by Mckenzie.
Task 6: Initial functionality done by Danylo. Clean up/formatting done by McKenzie.
Task 7: Report done by McKenzie.