Stationery Store Website Report

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**Software Tools**

The software tools that were used in building this website are; the visual studio code editor, chrome browser, in addition to the HTML markup language, the CSS styling language and Java script language.

**APIs used**

The website does not use any external APIs, however it does user browser built in APIs such as local storage for storing users, carts and orders. Window.location is also used for page redirection and URL praising. document.querySelector, addEventListener, createElement are also used for DOM manipulation. Date is used for forming order dates and count down. SetInterval is used for updating the countdown timer. And finally, bota() for base65 encoding passwords.

**Failed Trials**

I tried to implement a database for user data storage, order history and cart orders. I also tried to add some dynamics to the page by fetching the data from a JSON file instead of adding html attributes containing the data to be fetched. I tried to build the pages dynamically by just building the structure using HTML and then fetching the information in their meant position using JavaScript. Also, I tried to implement a before checkout page so that users can double-check their orders before paying the required amount.

**Potential reasons for failing**

* Database

I tried to study and understand a little about backend by myself and then implement what I learned, but unfortunately that was not attainable. Potential reasons for that might be that we have not studied these concepts in class which makes to harder to learn and more time consuming to implement. The second reason might be that I did not know about git and saving repositories before the TA introduced it in the final lecture so I always had that fear of screwing something that was already good up while building something else, but later when I learnt about git and how the edits can be deleted from the files without any problem I found it to be useful, but unfortunately the time stood in the way.

* Dynamic fetching

Dynamic fetching of product data was also something that I found difficult to implement so I instead used HTML attributes to store the data of products; like in this line

<button class="add-to-cart" data-product="Desk Organizer - Bamboo" data-id="organizer" data-price="29.99">

The detailed information of the product is stored like that and then I used JavaScript to extract this information. After the project became a bit bigger than expected I realized how convenient it would have been had I used JSON fetching and felt the pages data dynamically instead of manually. The reason fixing this was hard is the also the time constraint.

* Checkout page

The checkout page implementation is not difficult but the main reason I did not implement it is the time constraints.

**What succeeded**

I managed to successfully implement every feature that I want the website to have. Even though I did not successfully manage to write the most efficient code, I managed to implement everything else. That includes the products page, the special offers page, the CSS design plan, the cart system and payment simulation system. Every single button on the website is 100% working and does its function properly. There is a search bar that facilitates the process of searching for desired products and there is a categories side bar that serves the same purpose. Also, there is a sign-up / login system that has works properly. The user can make their own username and password and then use the website and make purchases, all the purchases are recorded in the user profile including the date, the items bought, the price of each item and the total amount paid.

So, all the targeted functionalities that were meant for the website are implemented successfully despite not using the most optimal way in implementing these features.

**Conclusion**

The website achieves its goals that were decided before starting to build it, however there are a lot of improvements that can be done on it so as to make it as close to real websites as possible.