CE154

ASSIGNMENT 2

SPRING 2023

UNIVERSITY OF ESSESX

SCHOOL OF COMPUTER SCIENCE AND ELECTRONIC ENGINEERING

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Contents

# Task 1

Unfortunately, I was unable to get an interview so this section will not be populated.

# Task 2

I have made several changes to the website which I shall mention and explain here.

* Button/Hyperlink Hover animations. I have added animations for buttons (the standard slight size increase) when hovered to show it is interactable, as well as changing the cursor on the interactable elements I forgot to that that for previously. I also decided to also change the font on hover, this is especially key for hyperlinks which do not change in size when hovered.
* I created the socials page. As this was on my original plan.
* I overhauled the market, so that it works better on all screen sizes, and suits the rest of the site better. I also improved on the hover animation.
* The item page now works better on large screen sizes. Which improves ease of use and is a shortfall noted in my previous document.

# Task 3

I used PHP in several ways throughout the website, I initially just used it for the header and footer of the site, allowing me to write those once and repeat them throughout the website, I also used them to help create active navbar links, by checking whether said page is currently open and if it is given the relevant nav link a special class.

PHP’s main use was linking the website to SQL. I used it to connect to the database on several pages, as well as pass SQL queries for finding, updating, inserting and deleting rows. I also used it to interact with and create cookies for remembering what people put in their basket.

I had 2 databases, one for the products and one for the products people have added to their cart.

**The website is at the default location,** [**http://cseemyweb.essex.ac.uk/~os22495/CE154**](http://cseemyweb.essex.ac.uk/~os22495/CE154)

# Task 6

All parts of the website are working correctly, and it is fully responsive.

|  |  |  |  |
| --- | --- | --- | --- |
| What to be tested | Expected | Outcome | Evidence |
| Adding items to cart | An alert pops up and it appears in the database with the correct quantity | As expected |  |
| Navbar Link Highlighting | The navbar highlights what page you are currently on | As expected |  |
| Fully Responsive | The website and design adapts to the current screen size | As Expected |  |
| Market Highlighted products | The 2 large products at the top of the market page change every page load | As expected |  |
| Market Items | All items show up with correct info | As expected |  |
| Item Page Link | Clicking on an item in the market takes you to the correct item page | As Expected |  |
| Cart Remove Item | Clicking remove removes the item from the cart | As Expected |  |
| Cart Quantity Change | Changing the Quantity in the cart updates the database entry | As Expected |  |
| Out of stock item | If an item is out of stock it shows as so and the buy button is greyed out | As Expected |  |
| Merch Feature | The merch feature section on the home page has a randomly rotating set of 3 merch items | As Expected |  |
| Merch Feature Item Page Link | Clicking on an item in the homepage merch feature will take you to the relevant item page | As Expected |  |
| Cart | Items appear in the user’s unique cart upon being added (Cookie is set and read) | As Expected |  |

## Automatic Testing

Graphical user interface, application, website

Description automatically generated

Graphical user interface, application, website

Description automatically generated

Graphical user interface, website

Description automatically generated

Graphical user interface, text

Description automatically generated

## Appraisal

I am happy with how I have done, the website looks good, performs well and does everything that is required by the client. I would like to improve my SQL and PHP skills as at times I often struggled to get what I needed to work working. I would also really like to add some sort of review system. I would also like to work on OOP in PHP as that seemed to be the common way of doing things now.

## Code

Text

Description automatically generated

This is the only code screenshot I shall be adding, as this showcases most of the PHP and SQL techniques I used. Creating and reading cookies, select and replace with SQL, that’s for finding the item information to display and then updating the SQL table for the cart. I also escape a string for security at the top, that is the only SQL query open to user input on the website.