**TESTING FRAMEWORK**

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# Website

|  |  |  |  |
| --- | --- | --- | --- |
| **Content** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| Images are well sized and relate to the website |  |  | I can see the images very clearly and they relate to the website’s topic (selling water). They also scale with size, so a larger font size the images will also increase. And decrease if they are using a smaller size. |
| All images have alt tags  **NOW PASSED** |  |  | All images apart from the logo are showing alt text when I inspect element, however, has alt text hard-coded in. I have googled the problem and have not found a solution or even explanation. I will brood upon this and solve it tomorrow (Friday 26th of July). I have noticed that while the page is still loading the alt text shows instead of the image. The problem is that the page source and inspect element don’t show it.  Today (Friday) I was going through my code again to try and found out why the alt text wasn’t working, and I found that I only had the alt text for the logo when the user was logged in and not while they weren’t, meaning that the alt text was only available whilst they were logged in. I fixed this by adding alt text to the logged-out image. |
| The text is visible and not too small or large |  |  | The text is very clear. Text size can also be adjusted by adjusting font size in the browser’s settings. |
| The colours and font are clear to read and look good |  |  | Everything is clear to view and read and colours don’t blend into each other. |
| All the content is balanced |  |  | Every page looks well balanced. |
| There are sufficient products |  |  | There are 10 products which are the minimum required for this website. |
| The site’s content is relevant |  |  | The site is an e-commerce site that sells water. All content is directly related to either selling water or user information. |
| The website is dynamic (changes) |  |  | The cart is updated whenever the user adds or removes from it, they can change their details and the WELCOME USER changes depending on the user’s name. |
| **Data integrity** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| All the required text and images are present |  |  | All the text and images are there unless you use inspect element and delete them in which case they are not there. |
| All the content is as accurate as possible |  |  | All the content functions properly and information is correct. Functions have been tested incrementally to make sure that everything (mostly) works before I did this final testing. |
| There are no grammatical or spelling errors |  |  | This is hard to judge since English has weird rules for grammar and it’s also not my first language. However, I understand the grammar perfectly and I’m sure that any English-speaking person will, too. |
| **Features** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| Buttons are properly displayed and link to the correct webpage(s) |  |  | The buttons change depending on whether the user is logged in or not and they redirect the user to the correct pages. |
| All links properly work and link to other webpages |  |  | All the links work as intended. The order button on the cart page is not meant to place an order, it just redirects the user to the cart page, essentially refreshing. It functions correctly. |
| The website performs the functions it was planned to perform |  |  | The user can add/remove items from their cart, log in/out, sign up and update their information and it serves as an ecommerce site that sells water. All as intended. |
| All necessary metatags are included and work  **NOW PASSED** |  |  | All pages aside from cart.php had the proper charset meta tag (UTF-8). Added the meta tag to cart.php to fix the issue |
| External stylesheet is used for styling the webpage and print control |  |  | An external stylesheet is used for styling, however, not for print control. I decided that there was no point in adding print control since what’s the point in printing out an ecommerce website? If they want to print it out they can print what they see or screenshot and print what they see, I don’t see this as a problem. |
| Buttons change depending on whether the user is signed in |  |  | If the user is logged in then one navigation bar is shown with the cart, update and log out buttons, if the user isn’t then another is shown with the sign up and log in buttons instead of the ones listed previously. |
| The user can log in, log out, sign up and update their profile (update once logged in) |  |  | The user can do all these things, I’m not sure how to comment on it. |
| The user can view, add and delete items from their cart only when logged in |  |  | This works. The user cannot add more of the same item, however. This prevents them from going over the 1000 maximum per item. |
| A database is used to store user and product information and the connection between site and database works |  |  | The database connects and is used as evident by the user being able to do things such as log in and manipulate the cart. |
| The user needs to confirm their password to sign up and update and must use their password to log in |  |  | This is in fact true. Here’s a screenshot:  That is what happens when they enter two different passwords each time. |
| The WELCOME USER displays the user’s entered name when logged in |  |  | This also works. It displays the first name that the user’s entered and it changes if the user updates their name. |
| The user cannot access the cart and update pages while logged out |  |  | The user is redirected to the log in page if they attempt to access the cart and update pages. |
| The user cannot access the log in and sign up pages while logged in  **NOW PASSED** |  |  | The user can access both pages. Fixing it now to make it redirect the user to the index page if they’re logged in using PHP at the top of the necessary pages. |
| **Other stuff** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| All files have appropriate names and relevant titles |  |  | Everything is named well and the file’s contents are obvious just from their names. |
| All images and other media is saved in a relevant folder inside the assessment folder |  |  | All images are saved in an images folder and CSS is saved in the CSS folder. |
| Webpages and CSS stylesheet are all saved in the assessment folder |  |  | Yep, not much else to say. |
| Code is professionally formatted and validated  **NOW PASSED** |  |  | I had no <!DOCTYPE html> in any of the documents. It used to break my code but strangely enough, it now works. Other than this, the only errors were PHP related. The validator doesn’t seem to like it. Neither do I.  The CSS validation had two errors:    Column is not a flex value: column. I deleted the properties from the CSS file and everything seems to be working fine. |
| All brackets are closed |  |  | All brackets are indeed closed. I doubt that PHP would work if they weren’t due to it being crap to use. Also, all HTML tags are closed, proven by the validator. |
| All sources where images and text are taken from are referenced |  |  | All images are referenced in the reference document. All text is original. |
| Copyright laws have been obeyed |  |  | I have made sure that they have been obeyed by:  a) not making my site public.  b) referencing the original owner’s material. |
| All code is coded by me |  |  | Some code was copy/pasted from other people and modified to suit my needs since no one else is making a website selling water. |
| The website is compatible with most/all browsers |  |  | I have tested the website using the latest official versions of Edge, Chrome, Firefox (main), Internet Explorer and even Brave, a browser that doesn’t allow Javascript or something like that. The website is compatible with all these browsers and these browsers are the most popular which means that most people can see it properly. I did have an issue before with the browsers using position: relative differently and ended up substituting that for margins instead because most browsers use margins the same way and I ended up with the same result. |
| The code is commented so that other people can understand it |  |  | I’m pretty sure that one of the pages has more comments than code. Cool, right? Wrong, it was a pain. Eeck. |
| The latest version of HTML and CSS are used |  |  | I used HTML5 and CSS3 to build my website. |
| The website moves with window resizes |  |  | It sure does, the nav bar moves and the items on the shop page also move. Thank goodness for flexbox! However if the windows shrinks too much the nav bar and items will eventually stop resizing. |

# Database

|  |  |  |  |
| --- | --- | --- | --- |
| **Structural** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| Proper field names, data types, field lengths, nulls, keys and actions are used |  |  | All fields are properly structured and made to be efficient and everything is good. |
| A diagram showing the relationship between the tables is present  **NOW PASSED** |  |  | It is present but incorrect.  Deleted the cart table and unnecessary fields in the products table. |
| The website has a form which the user enters data into which then appears in the database |  |  | There are 2 forms that update database data: the sign up and update forms. |
| The data has been normalised to first and third form |  |  | It has been normalised to first form by having one value per row IE firstName only contains the user’s first name and not their age or anything. |
| **Functional** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| Data in the database can be modified by using a form on the website |  |  | Yes, this is a thing as mentioned previously. |
| The data entered appears somewhere on the website |  |  | Yes, there is a WELCOME USER thing that shows the user’s first name. Also, the update form has the user’s information pre-entered. |
| All NOT NULL fields have information in them |  |  | This is true because all fields are not null and have information in them. |
| The user cannot log in if they have entered incorrect information |  |  | Yes, I have tried to enter wrong passwords, wrong usernames and completely irrelevant information. |
| Products appear on the website |  |  | They most definitely appear. |
| Buttons change depending on whether the user is signed in |  |  | Yes, this happens. |
| The user can log in, log out, sign up and update their profile and can modify their cart once logged in |  |  | The user can do all these things, however, some only while logged in and/or out. For example, they can only log in if they are logged out, as intended. |
| **Data Testing** | | | |
| **Check** | **Pass** | **Fail** | **Comments** |
| Product details entered in the database are correct and displayed as such on the website |  |  | Product details are all correct and are correctly displayed on the website. |
| The user’s information is correctly stored and displayed on the website |  |  | The user’s details are also correctly displayed on the website and are stored properly in the database. |
| The user is limited by the amount of characters that they can enter in the forms to not overload the database  **NOW PASSED** |  |  | The user can enter any amount of characters into the input form, however, the database will only store 255 characters for most fields and 65535 for the text field. This is too much for the user to enter so I will shorten it so that they don’t screw up my database.  I fixed the issue by giving all of the input forms a maxlength attribute of 255 (same as the database) and made the address 500 characters max, thus only allowing the user to enter X amount of characters. |
| Do the signup and update forms insert data into the correct rows? |  |  | They definitely insert the data into the correct rows. I double-checked to make sure and everything is as it should be. |
| Does the login form take data from the correct rows? |  |  | The login form takes data from the correct rows and compares what the user has entered vs what the database has recorded. If this was incorrect, the user wouldn’t know how to log in and therefore wouldn’t be able to, however, since the user can log in and does so without trouble, it is obvious that it works splendidly. |
| Is the correct name shown for the WELCOME USER? |  |  | The correct name is shown: |
| Is the correct information pre-entered in the update form? |  |  | The same information used to sign up is pre-entered in the update form unless the user has updated their information. The correct data is pulled from the database and fills the form with that data. |
| Do characters entered in php scripts insert into the database through login? |  |  | The characters ‘ and “ cannot be used as they break the field names that they are supposed to get the data from.  After a fair bit of research I have found that I can use the htmlspecialchars() function, however, it did not seem to work, likely because I applied it incorrectly or misinterpreted what it does. I do not know how to fix this issue especially with the very limited amount of PHP knowledge that I have. |

# Tools used:

W3C CSS Validator (CSS validation)

W3C Markup Validator (HTML validation)