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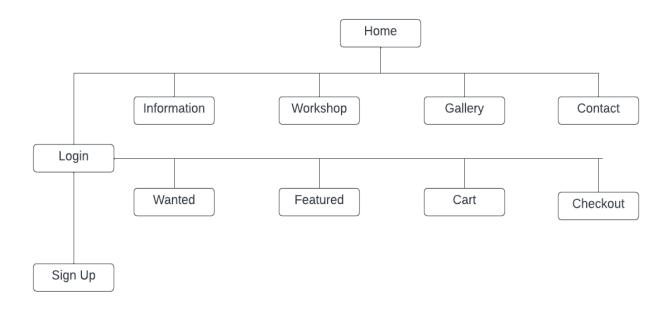
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Task 1 - Site Map and HTML

Site Map



^{*}All html, php, css and database(sql) code is attached in the assignment folder.

Task 4 - Critical Evaluation

A web application is a computer program that utilises web technology and web browsers to perform tasks through the internet. A user can access a web app and use it through the internet using its URL. Web server manage requests from clients, application servers carry out these tasks and the database is the backend that stores and retrieves all the information related to the client and application.

Amazon.com is an example of a web application. It has a front end where users interact with the system and can browser through products. The users can then sign-up for an account and login and make purchases, their details are stored in the database together with the details of the products.

BeFoward.com is another example of a web app, clients sign up with an account and their details are stored in the database together with the of motor vehicles and spare parts for sale on the website. Users are able to browse through motor vehicles and purchase them online. Both of these web applications benefit from web services and derive most of their functionality from them.

Web services are a standard medium the facilitate the communication between clients and server applications on the internet. Representational State Transfer (REST) is a web service that is focused on the use of the HTTP protocol to transport XML pages on the web. The main four actions of rest are GET, POST, PUT, DELETE. The HGE website that I developed was using a database and was completely web based, the REST web service was very useful and facilitated all the transactions with the database. The POST function was used to collect data from the website and save it in the database. The GET function was used to retrieve the saved data from the database. This allowed the database to implement many functionalities such as saving users details and implement a login system, as well as saving all the details of the products that HGE is selling. I also used the DELETE function to remove saved items from the database. I also implemented an RSS feed in the HGE Gallery page to show subscribers any updates to the gallery page.

HTML

I used HTML to add all the form and physical elements of my website. This includes text, pictures, videos, buttons, text areas and icons. HTML enables to make each web page unique by having various elements in various pages

CSS

I used CSS to style and modify all my HTML elements on my website. I had one CSS page that was linked with all the HTML pages and altered all of them using they style attributes of CSS. I used CSS to change the positions of objects, their colors, sizes and responsiveness. I also used CSS to add animations and other interactive features to my website. Having one CSS file enabled me to carry over repeating styles to all pages of HTML elements like those of the header, navbar and footer that were the same or similar for all my pages.

Evaluation of HGE

The HGE website has a home page that has a clean navigation bar and relevant text and multimedia. The user receives a pop up with cookie information upon opening the page, they can then click the okay button to remove this pop up. The home page also has 3 videos that displays 3 featured products for the month. The home page also has a slide show that displays pictures of tending products on the website. The home page also has a number of views counter, captcha verification and 'you are here' indicator.

The information page has titles and pictures relating to latest fitness information and links that lead to websites that have very more detailed information on particular topics. I also included frequently asked questions on this page.

I made a login page where a user can login with their credentials and gain access to the wanted page and featured page. I also developed a cart page and checkout page to enable the user to review their selection of products and order them. Once a user is logged in, they can view used gym equipment on the wanted page and add products they are interested in to the car. On the header of the page there is a cart that shows the number of items the user has in the cart. After logging in the user can also access the featured page where they find the products under the categories of top 3 products, tech, medical and clothing, the user can also add these to their cart. After the user is satisfied with their shopping, they can click on the cart icon and navigate to the cart page. On the cart page the used is displayed with all the products they have selected; the user can also select the quantity of products they want and the price and grand total are calculated automatically. The user can also remove individual products from the cart or clear all the products from the cart. Once the user is satisfied with their selection, they can then click the 'proceed to checkout' button and navigate to the checkout page. On the checkout page, the user is shown the products they have selected and their grand total, the user can then enter their personal details and place an order, a receipt is then returned to the user. All the products that are displayed to the user in the featured and wanted page are stored in the database and are retrieved from there.

On the login page, an admin can also login using the email 'admin@gmail.com' and password '1234admin'. I developed and admin page that an admin can access after login. On this page and admin can add a product together with all it's details and all the data are saved to the database and automatically displayed on the wanted or featured pages depending on the category of the product. An admin can also delete a product on the admin page and it is automatically deleted from the database and will no longer be displayed on the website.

On the login page, the is a link to the sign-up page where a user can input their details which will be saved to the database and they can use these details to login after they have signed up successfully. A user is locked out of the system for 10 minutes after 3 failed login attempts.

I included an RSS feed on the gallery page and a privacy policy on the contact page. I developed a fully functional database that stores all the details of the users and products.

The HE website that I have developed effectively meets the objectives of the assignment and can still be further improved. The website is fully responsive and can be viewed on multiple web browsers

Task 5 - Reflection

What?

I was tasked with the assignment to develop a dynamic website for the sale of gym equipment. I had a challenge in implementing the database and making products automatically appear from the database.

So What?

I research continuously and redid the functionalities relating to the database three times until I finally managed to implement the right thing. I managed my time and applied extra effort in achieving the task at hand, my research skills, php programming skills, html and css skills and sql database skills have greatly developed because of this.

Now What?

I will build on this foundation of consistency that I have learn through this assignment and try to be consistent in all my other projects, relating to school and extra-curricular and push myself to achieve more through this.

Future Improvements

Description

I need to improve, my time management and efficiency in approaching tasks and solving problems.

Analysis

I have observed that I have difficulties in working on a given task for prolonged periods of time (more than 2 days continuously) and find myself losing interest in the task and becoming less efficient.

Action Plan

I need to add variety to how I approach my tasks; I will practise working on an individual task for a limited amount of time before switching to another task. I will also work more with friends and consult more.

References

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