

202709_Zwe_Khant_Aung_DW

by Zwe Khant Aung

Submission date: 19-Jul-2024 06:49PM (UTC+0100)

Submission ID: 237706904

File name: cypypaste.txt (5.15K)

Word count: 837

Character count: 4325

Task – 1 – HTML

Home.php

Methods Used in Home.php

Task – 2 – CSS and Database

Task – 3 – Critical Evaluation

Introduction and Benefits of the Website

As today is the age of communication, the social media have taken place in everyone's everyday lives especially teenagers. The proposed website, social media campaign, show the ways and activities of how to sail through the waves of the social media ocean safely. The website will contain the information of popular social media applications, the services that the website provide, how parents can participate in the cyber safety of their children, and help and support which also includes contacting directly to the admins. By using the website, the teenagers will get the benefaction of knowledge concerning the ways of using the social media platforms safely.

Web Development Tools for the Website

The development tools that I use during the development process are Visual Studio Code (VSCode), Chrome Browser and Xampp.

VSCode is a one of the famous text editors that can also use as an integrated development environment using its built-in command line interface(CLI) and other features. VSCode's extensions also provide error detection, especially PHP Intellisense in this case, code formatting and other so many useful features. (EITCA, 2023)

Chrome is also a browser that improves developer experience by its excellent tools and features such as cache clearing and hard reloading, developer tools, and Chrome's development extensions. (Kanai, 2022)

Xampp is used for client server system. It is quite convenient as it is quite a package for PHP development. As Xampp is installed, an according version of PHP, a local development server with port configurations will be automatically installed. (Karan, 2023)

Usage of PHP to Design and Build the Website Database

In this project, object-oriented programming (OOP) style of PHP is used effectively for quality, maintainability and scalability of the code.

A class for Database connection and that class's instance will be used as a property of each Model class. There will be one Model class for each table in the database. Each method of the Model classes will perform only one of creating, reading, updating and deleting the data of the table in the database following the solid principle.

Then, there will be one controller class for each table in the database. Each controller class is an inheritance of the corresponding model class. Controller classes will be responsible for redirecting or navigating, route parameter passing and performing the user's commands using the methods of the model classes following the model-view-controller (MVC) pattern using mostly encapsulation and inheritance of OOP.

There will be other classes like middleware and helper classes for methods that can be used all across the application.

How Effectively the Website Meet the Requirements

This project is quite scalable, readable and maintainable as it uses object-oriented programming paradigm. Not only the code quality, the users can explore the newsletter, services, popular social media applications and how parents will be able to help in the online safety of their children at the corresponding pages of the website.

Also, the website has a general search box that can search the content of all pages to increase the user's experience. The user's interface also uses light blue color for a symbol of calmness and home page also includes figures and divisions for clearance

Task – 4 - Reflection

Development Tools

One of the tools used for development is Firefox browser. It is a great browser, but lacks one feature that it does not include the "clear cache and hard reload" option when right clicked the refresh bottom. That feature is necessary because new CSS lines does apply to the web design automatically. The Chrome browser includes that feature when the developer tools is opened and right clicked the refresh bottom. So, chrome was ultimately chosen.

The sublime text was also tested. It is great but all the codes needed to be memorized because it's auto-complete suggestion feature is not perfect. But, in VSCode, that feature is quite strong and VSCode was chosen.

Learning From the Development of The Website

In the development of this project, it was learned that PHP is quite a nice language for OOP even though it is a procedural language. Its OOP features are quite great. HTTP request methods GET, POST and their differences are also learned. Also, data from PHP can be obtained through data attribute of the HTML with JavaScript and how to use them. Also, how to make the project meet the requirements, the development plans, database design and how to manage the user's interface according to the content of the pages.

Discussing for A Similar Task in The Future

If there is a similar task in the future, if the project's database is complex, the relationships between tables and multiplicity will be applied. Make the code more readable and reusable by following the best practices of the PHP programming language. Use API for data transfer between the front-end and back-end of the project would also be great for the next task.

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