202709_Zwe_Khant_Aung_DW

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Submission date: 01-Aug-2024 06:24PM (UTC+0100)

Submission ID: 237706904

File name: copypaste.txt (13.24K)

Word count: 1802

Character count: 10446

Task - 1 Example project flow Database class will be used in every model. Every model has two private properties, "\$db" and "\$table". Database.php Contact.php (Model) Interface or view php files will use methods of controller directly. Methods of controller use methods of model which they extend. ContactController.php (Child class of Contact.php) How methods of ContactController will be used in contact-list.php This is the example of how Model, View and Controller connects in all pages of

Layouts files will be used in all pages of the project.

the project.

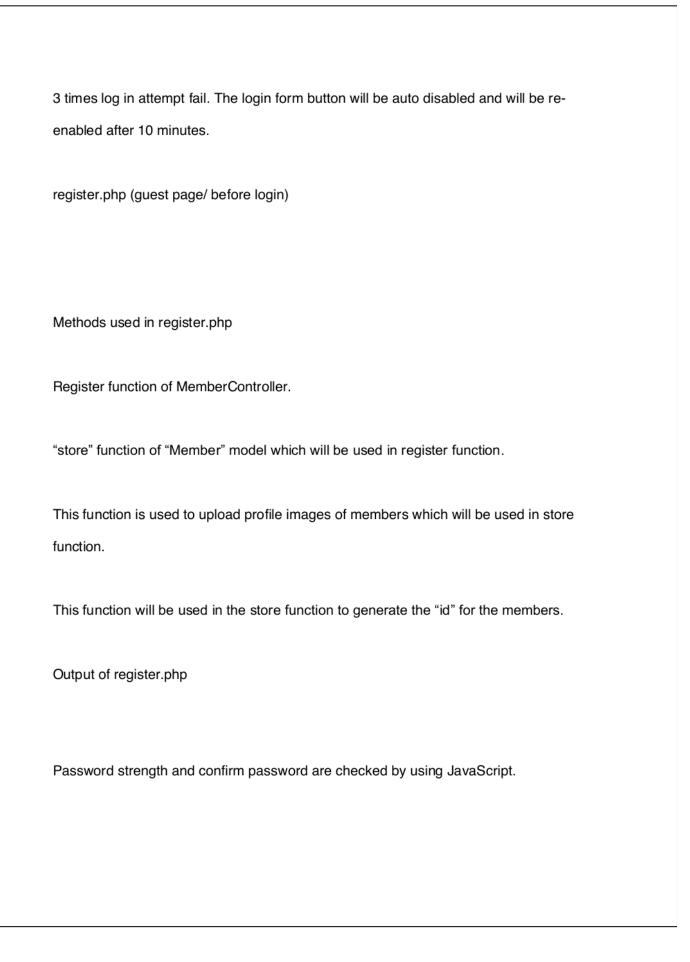
Layouts

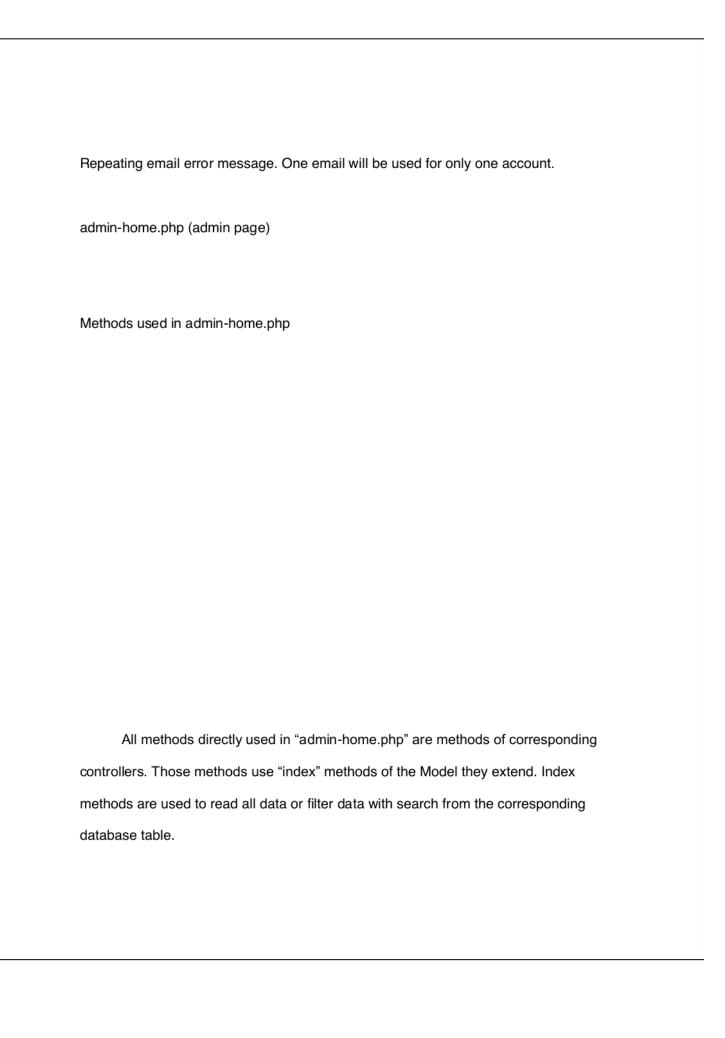
nav.php

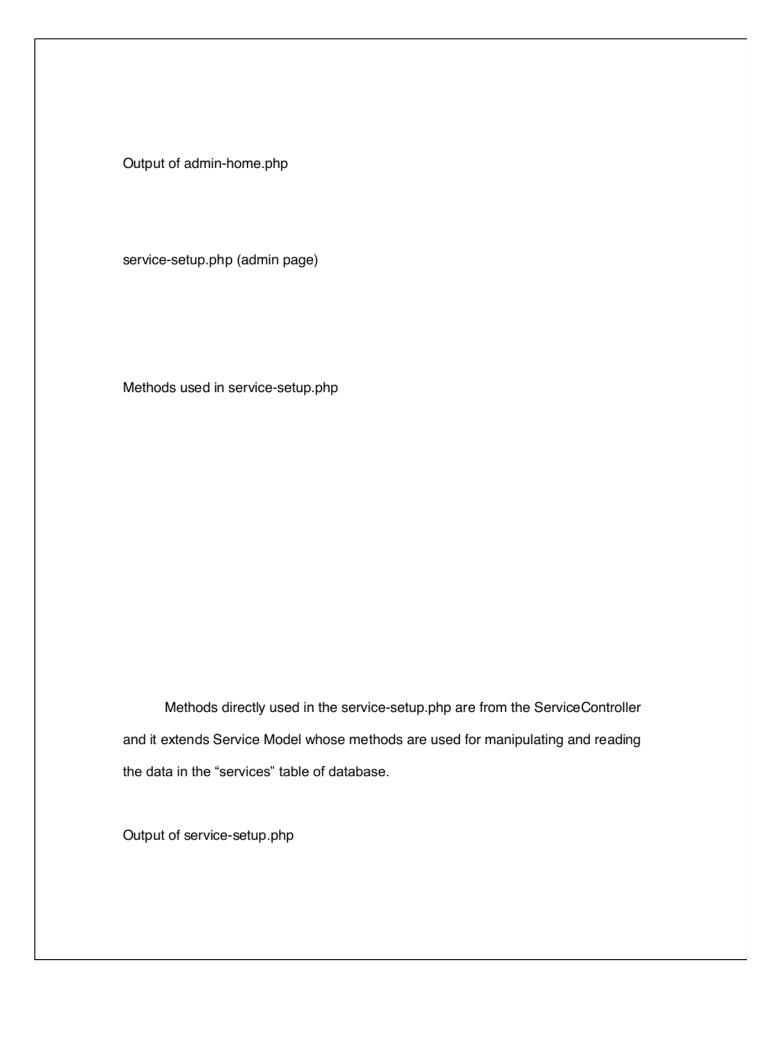
footer.php
Middleware Auth.php
When a user tries to request a page that is not compatible with his/her role, this middle function will redirect to a proper page. It is used in nav.php to be included in all pages.
validator.js
index.php (guest page/ before login)
Methods used in index.php

"index" method is used to search or get data from the "social_media_apps" table
and that method will be is used in "getAllSocialMediaApps" method of
SocialMediaAppController.
Output of index.php
b-information.php (guest page/ before login)
Output of b-information.php
Black shapes under the paragraph are live animations.
b-legislation.php (guest page/ before login)

Outpu	ut of b-legislation.php
Shap	es under the paragraph are live animations.
login.	php (guest page/ before login)
Metho	ods used in login.php
"show	vWithEmail" method is of "Member" Model and used for get the user information
with e	email. "checkLogInAttemptTimes" method is of "MemberController" which extends
"Mem	nber" Model will be used how many failed logins attempts the user has tried.
Outpu	ut of login.php
Wron	ng password message.
Invali	d email or invalid credentials message.







Output with edit form.
Output with search function.
Service from data validation with JavaScript.
newsletter-setup.php (admin page)
Methods used in newsletter-setup.php

All methods directly used in newsletter-setup.php are methods of
NewsLetterController which extends the Newsletter Model whose functions are
responsible for reading and manipulating data of the table "newsletters".
Output of newsletter-setup.php
Output with edit form
Output with search.
Newsletter form validation with JavaScript
how-parent-help-setup.php (admin page)
Methods used in how-parent-help-setup.php

All methods directly used in how-parent-help-setup.php are methods of
HowParentHelpController which extends the HowParentHelp Model whose functions are responsible for reading and manipulating data of the table "how_parent_helps".
Output of how-parent-help-setup.php
Output with edit form
Output with search
Parent help form validation with JavaScript
social-media-app-setup.php (admin page)

Methods used in social-media-app-setup.php
All methods directly used in social-media-app-setup.php are methods of
SocialMediaAppController which extends the SocialMediaApp Model whose functions
are responsible for reading and manipulating data of the table "social_media_apps".
Output of social-media-app-setup.php
Output with edit form
Output with search
Form validation with JavaScript

contact-list.php (admin page)
Methods used in contact-list.php
All methods directly used in contact-list.php are methods of ContactController which
extends the Contact Model whose functions are responsible for reading and
manipulating data of the table "contacts".
Output of contact-list.php
Output with search
member-list.php (admin page)

Methods used in member-list.php
All methods directly used in member-list.php are methods of MemberController which
extends the Member Model whose functions are responsible for reading and
manipulating data of the table "members".
Output of member-list.php
Ban user confirmation
Admin promotion confirmation
Admin demote confirmation
Output with search
admin-profile.php (admin page)

Methods used in admin-profile.php
All methods directly used in admin-profile.php are methods of MemberController which extends the Member Model whose functions are responsible for reading and manipulating data of the table "members".
Output of admin-profile.php
home.php (user page)
Methods used in home.php

Output of home.php
Output for unsubscribed user.
See more button.
Output for subscribed user.
information.php (user page)

Output of information.php
Black shapes below the paragraph are animation made with CSS.
parents-help.php (user page)
Methods used in parants-help.php
Output of parents-help.php
Output with search function from the navigation bar.
newsletter.php (user page)
Methods used in newsletter.php

Output of newsletter.php
For unsubscribed user
For subscribed user.
Output with search function form navigation bar
service.php (user page)
Methods used in service.php
Output of service.php
Output with search function from navigation bar

livestreaming.php (user page)
Output of livestreaming.php
social-media-app.php (user page)
Methods used in social-media-app.php
Output of social-media-app.php
Output with search function from navigation bar contact.php (user page)
Methods used in contact.php

Output of contact.php
legislation.php (user page)
Output of legislation.php
Task – 2 – CSS and Database
Database
CSS
admin-home.css
contact-list.css
how-parent-help-setup.css

Information.css
legislation.css
member-list.css
newsletter-setup.css
service-setup.css
social-media-app-setup.css
style.css

guest/index.css
user/contact.css
user/home.css
user/information.css
user/legislation.css
user/livestreaming.css
user/newsletter.css
user/parents-help.css
user/service.css

utilities/bg.css
utilities/box.css
utilities/display.css
utilities/flex.css
utilities/gap.css
utilities/general.css
utilities/grid.css
utilities/margin.css

utilities/padding.css utilities/position.css utilities/text.css utilities/variable.css utilities/width-height.css 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 Intelliphense 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 objectoriented 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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