Project Phase01

Objectives

- Use a file structure that allows for your program to evolve.
- Use Git and GitHub.

Introduction to Southern Appalachian Salamanders (SAS)

We will use the the LinkedIn/Learning site called PHP and MySQL Essential Training Part 1 as the code base for creating a website on Southern Appalachian Salamanders.

What to Watch

Watch the first two chapters before writing any code.

1. Start a Database-driven Web Project and
2. Build Web Pages with PHP.

After watching the chapters, use the exercise files and start coding along with the author.

You will not turn in these files. Coding with the author will reinforce the concepts.

Start Building SAS

See what you will build

Here is a link to the finished Phase01.

As you can see it doesn't do much and there is no CSS. I left out the CSS on purpose so we can concentrate on the file structure and the PHP code. Don't let this seemingly simple site fool you. The code behind the scenes is what sets up your project so it can scale up.

I have provided the starter code. Download it from Moodle. Store the code in a folder called **htdocs/sas**.

Watch all four videos before starting to code.

1. Project Phase01 Introdution to the file structure
2. Project Phase01 - Git and GitHub
3. Project Phase01 - Using your webhost's file manager
4. Project Phase01 - Analyzing the initialize.php file

Understanding the code

Spend time reading through Kevin Skoglund's code. We are just abstracting what he has written and making a small site from it. of the important parts are

1. The file structure
2. Private and public folders
3. Relative paths. This is especially important when referencing the **initialize.php** file.

Folder for each phase

Create a folder for each phase of the project. The naming convention is

```
htdocs/sas/phase01
htdocs/sas/phase02
etc.
```

Instructions in the starter files

I have placed instructions in the **starter-files**. The files you need to edit are

```
sas/index.php
sas/public/index.php
sas/public/salamanders/index.php
sas/public/salamanders/show.php
```

Upload to your webhost

Once your code is running correctly, upload it to your webhost. You can do this using

1. FileZilla and SFTP. Some hosts allow you to use plain FTP but this method is not encrypted and not recommended.
2. The file manager in your host's cPanel or Site Tools (if using SiteGround.)

You will need to consult your host's documentation on where to store your file. Put the **sas** folder in your root. For instance, mine would be

```
https://chatteringmagpie.dev/sas
```

Slack

Don't be afraid to use Slack to ask questions and post code. I will monitor the channel. If another student can answer your question before I get there -- that's good!

Slack has a tool that allows you to embed code snippets and have it look nice.

Final Commit

Once your code is working correctly, make a final commit. Here are the steps

Open your terminal or GitBASH and navigate to your **sas** folder

[Win]

```
cd c:\xampp\htdocs\sas
```

[Mac]

```
cd /Applications/MAMP/htdocs/sas
```

You are ready to stage and commit your files.

```
git status
git add .
git commit -m "Code for phase01 is ready"
```

git log

You do *not* need to push your code to GitHub for this assignment.

Instead you are required to submit your `git log` in Moodle. There are two ways to complete this task.

Copy and paste

Type

```
git log
```

Copy and paste the output in a new file named **phase01-git-log.txt**

OR

Use the command line

You can use the Linux `>` output operator. This will write your git log to a file.

You need to be in your **sas** folder (see above to navigate.)

Now you are ready to run this command that outputs the git command to a new file.

The `--decorate` switch is optional but it makes reading the output easier.

```
git log --decorate > phase01-git-log.txt
```

It may take some time to get the code correct. Review the videos, both mine and Linkedin/Learning. Think through the process.

What to Submit

Once you are finished uploading your code to your webhost and GitHub and testing your code on your webhost, submit the following in the Comments section in Moodle

- The GitHub address to your sas repo
- The Web address to your site, so I can click on it and see it run.

You will not submit any code in Moodle. I will pull your code from GitHub and read it.