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COSC 4353 - 3/19/2021

Assignment 3

1. Provide link to GitHub repository for TAs to view the code.(5 points)

https://github.com/ShaneMeghani/Software_Design_Project/tree/main/A3

https://github.com/ShaneMeghani/Software_Design_Project.git

2. List what backend technologies you are using and why? (2 points)

Originally we were using Python as the backend language for our website, but we ran into many issues. While researching online we found many people recommending PHP as an easy to learn backend language. So we decided to change from Python to PHP, which ended up being a great choice for us. This also works very well for us since we are using Wamp Server, which has very good support for PHP. With PHP we were able to get all of our html's connected and create classes that help process user input. If you test our code from github, you'll find our website to be very functional, as long as you use hard coded data (no DB just yet). For assignment 4 we will use MySQL to create our database, and integrate it with PHP. We also used PHPUnit and Xdebug to help get our code coverage. We made a total of 17 tests that went through every method of our five classes. In conclusion, we are using HTML / CSS for interface, PHP / MySql as backend, and it's all connected with Wamp Server.

3. Provide code coverage report. (3 points)

```
$ vendor/bin/phpunit --coverage-text
PHPUnit 9.4.2 by Sebastian Bergmann and contributors

Runtime:       PHP 8.0.0-dev with Xdebug 3.0.0beta2-dev
Configuration: phpunit.xml.dist


.................                                    17 / 17 (100%)

Time: 00:32.907, Memory: 49.65 MB

OK (17 tests, 17 assertions)


Code Coverage Report:
  2021-03-17 05:24:50

 Summary:
  Classes: 100.00% (5/5)
  Methods: 100.00% (13/13)
  Lines:   100.00% (194/194)
```

*Note: Our test class with unit tests are posted on github. We tested our 5 classes with the help of PHPUnit and Xdebug. This is our first time running code coverage so please let us know if we missed anything or could improve upon for A4.

4. IMPORTANT: list who did what within the group. TAs should be able to validate in GitHub, otherwise team members who didn't contribute will receive a ZERO.

Andrew Nguyen - Help set up the PHPUnit test environment and made some of the unit tests.

Shahenshah Meghani - Wrote majority of web app PHP files and new html files.

Syed Aziz - Help set up the PHPUnit test environment and made some of the unit tests.

*Note: Everyone worked together on all aspects of the project, the separation of work above is just based on who was sharing their screen and writing the code at the time.