[phpinfo();](http://localhost/phpinfo.php)

Just plain LAMP stack apache site running in Ubuntu, similar to plain LAMP site running in XAMPP. Site is running as if it is hosted in a AWS EC2 Linux VM.

C:\Users\000930322\Downloads\PHP\PHP Summary.docx

Has info on steps to create a simple exercise, CLI commands, troubleshooting

 Exercises

Most coding exercises will be here.

* [Individuals](http://localhost/0_misc_exercises)
* [Classes & Objects](http://localhost/1_class_object_exercise)

 Testing

Unit testing with PHPUnit + Composer.

* [Composer + PHPUnit : Classes](http://localhost/2_classes_folder)
* **Composer + PHPUnit : Tests** in /tests folder outside /public\_html folder, not reachable in localhost

[[![Diagram

Description automatically generated]()](http://localhost/img/phpunit%20composer%20tree%202.jpg)](http://localhost/img/phpunit%20composer%20tree%202.jpg)

[tree](http://localhost/img/phpunit%20composer%20tree%202.jpg)

More info on this exercise at: C:\Users\000930322\Downloads\PHP\PHP Summary.docx

 Autoloader

Composer does two things using composer.json  
1) "require": Manage third party libraries  
2) "autoload": Autoload user-defined classes for  
(a) project itself and/or  
(b) phpunit testing.

* [Composer - 1) Manage:](http://localhost/3_composer_autoload/faker_exercise.php) Requiring and autoloading Faker 3rd party library for a project.
* [Composer - 2a) Autoload:](http://localhost/3_composer_autoload/addnums_page.php) Using **Namespaces**, Autoloading user-defined AddNums.php class for the addnums\_page.php (project itself) to run.
* **Composer - 2b) Autoload:** Autoloading user-defined classes for **PHPUnit** to run tests. (composer.json that has code "autoload-dev": is outside /public\_html folder, not reachable in localhost)

More info on this exercise at: C:\Users\000930322\Downloads\PHP\PHP Summary.docx

 Logging

Logging with Monolog + Composer.

Logging results cannot be seen in browser in this exercise, so no links below:

* **Monolog - Log to console**
* **Monolog - Log to file**
* **Monolog - Log using processor.** Default/custom processors are used to include information in log entries such as client’s IP, browser, etc.
* **Monolog - Log to email**
* **Monolog - Log to MySQL database**
* **Monolog - Log to AWS database**
* **Monolog - Log to Chrome browser**

More info on this exercise at: C:\Users\000930322\Downloads\PHP\PHP Summary.docx

 DI / Interfaces

Dependency Injection / Interfaces & Concrete class implementations.

* [DI / Interfaces : store\_page.php](http://localhost/5_DI_interfaces)

Page: store\_page.php decides which implementation to use: GoogleMaps or OpenStreetMap  
↓ uses ↓  
Class: StoreService  
↓ uses ↓  
Interface: GeoLocationService (has 2 Implementations: GoogleMaps class, OpenStreetMap class)

More info on this exercise at: C:\Users\000930322\Downloads\PHP\PHP Summary.docx