# Manual for PHP, Composer, PHPUnit

## + Setting up PHP--

- 1. Click on this <u>link</u> to download the PHP zip file and then unzip the file and copy the files inside that zip to the "C drive" by creating a new folder named after "php-version".
- 2. Later on, copy the path of that folder and add it to the System variable "path".

Edit the system environment variable>Environment variables>System variables>Double click on "Path">New>Paste the copied path here>Press OK>Press OK>Done!

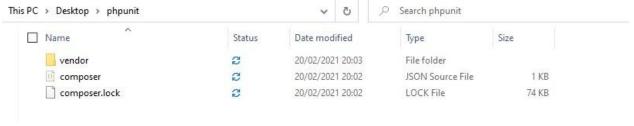
#### + Setting up Composer -

- 1. Click on this <u>link</u> to download the executable Composer installation file and run it.
- 2. Write "composer" in the in CMD (Command Prompt) for successful installation confirmation.



## **→** Setting up PHPUnit –

- 1. Create a new folder for your project, I named mine as "phpunit".
- 2. Navigate to the created folder in CMD (Command Prompt). For example, if your project folder is in Desktop, simply write and run "cd desktop" or just copy the path from the address bar of your project directory and then type "cd project\_folder\_name". To illustrate, in my case it is "cd phpunit").
- **3.** Once in the directory within CMD write the following to install PHPUnit in that particular directory "composer require phpunit/phpunit".



**4.** Switch to bin folder by typing "cd .\vendor\bin" and try running PHPUnit by simply writing "phpunit" in CMD.

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- + Setting up the json and xml files for PHPUnit --
- 1. Inside the phpunit or project folder create two more folders named "tests" and "app".
- **2.** There will be a json file in your project folder named "**composer.json**" open this file and replace the codes with the following:

```
{
"require": {
"phpunit/phpunit": "^5.7"
},
"autoload": {
"psr-4": {
"App\\": "app"
}
}
```

3. Now, go back to CMD and write the following "composer dump-autoload -o".

```
Generating optimized autoload files
Generated optimized autoload files containing 1066 classes
```

**4.** After this, create a new file called "phpunit.xml" under the project folder and add the following code to it:

```
<?xml version="1.0" encoding="UTF-8"?>
<phpunit bootstrap="vendor/autoload.php" colors="true"
verbose="true" stopOnFailure="false">
<testsuites>
<testsuite name="Test suite">
<directory>tests</directory>
</testsuite>
</testsuite>
</testsuites>
</phpunit>
```

5. In CMD check if everything is working by writing "cd.." twice and come back to the project directory" and then type ".\vendor\bin\phpunit", it should show "No tests executed!" if it doesn't you did something wrong in the previous steps.

```
Runtime: PHP 8.0.2
Configuration: C:\Users\user\OneDrive\Desktop\phpunit\phpunit.xml

No tests executed!
```