

Manual for PHP, Composer, PHPUnit

✦ Setting up PHP--

1. Click on this [link](#) 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 [link](#) to download the executable Composer installation file and run it.
2. Write “**composer**” in the in CMD (Command Prompt) for successful installation confirmation.

```
C:\Users\user\OneDrive\Desktop>composer

Composer version 2.0.9 2021-01-27 16:09:27
```

★ 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>
  </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!
```