

PHP Unit

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Organization

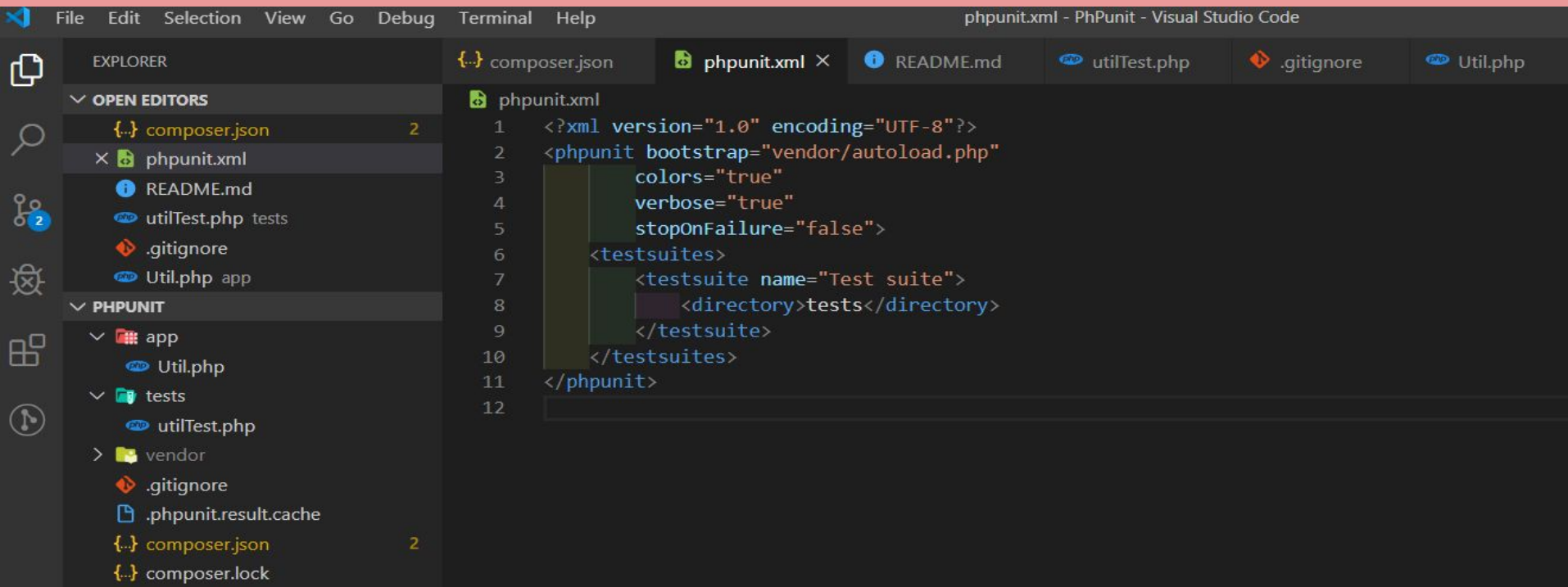
Task	Priority	Description	Difficulty	Time
Read the description of the project	5	This task involves complete understanding of requirements for the project	1	30 min
Create git repo	5	Creating of git repository for project execution and delivery	1	2 mins
Create files for the project	4	Creating the necessary files, folders and subfolders for this project. This is important especially for this project of PHP unit	1	5 mins
Download composer	3	Downloading the composer which is required for phpunit installation	2	10-20 mins
Install php unit	4	Installing the Php unit as stated in the website	3	30 mins
Create 2 functions as required	2	Create the 2 functions <code>spaceConverter</code> and <code>lowerStrngConverter</code> . These are stored in Util.php	4	1 hr
Run the tests	2	Run the tests from utiltests.php for test_slugs	5	2-3:30 hr
Documentation	1	Write the documentation and push it to github	2	2 hr

Knowledge gained

- Debugging PHP program with another program
- Using PHP Unit
- Composer
- Assertions

PHPUnit.xml

- This is used for organizing the tests. It controls the configuration like color of alert etc. on execution of tests



The screenshot shows the Visual Studio Code interface with the 'phpunit.xml' file open in the editor. The Explorer sidebar on the left shows the project structure, including 'composer.json', 'phpunit.xml', 'README.md', 'utilTest.php', '.gitignore', and 'Util.php'. The editor displays the XML content of 'phpunit.xml' with line numbers 1 through 12.

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <phpunit bootstrap="vendor/autoload.php"
3     colors="true"
4     verbose="true"
5     stopOnFailure="false">
6     <testsuites>
7         <testsuite name="Test suite">
8             <directory>tests</directory>
9         </testsuite>
10    </testsuites>
11 </phpunit>
12
```

Options

- **Color option:** Colors= "true" . To set the color option by default
- **Define path to where tests are stored:**

```
<testsuite name="MyTests">  
  <directory>../path/to/some/tests</directory>  
</testsuite>
```

Verification methods

- Verification of numbers

- Same
- Equals
- isNumeric
- isFloat
- GreaterThan
- GreaterThanOrEqualTo
- LessThan
- LessThanOrEqualTo

- Verification of Strings

- assertEquals
- isString

- Verification of arrays

- assertEquals
- arrayHasKey
- assertArraySubse

- Verification of Classes

- `assertClassHasAttribute`
- `assertClassHasStaticAttribute`

- Verification of directories and files

- `assertDirectoryExists`
- `assertDirectoryIsReadable`
- `assertDirectoryIsWritable`
- `assertFileExists`
- `assertFileIsReadable`
- `assertFileIsWritable`