

PHPUnit

Time: 6H
Difficulty level: 3

1.1. Create a new project

php-unit/

1.2. Install PHPUnit

Composer:

Composer version 1.9.2 2020-01-14 16:30:31

PHPUnit:

PHPUnit 8.5.2 by Sebastian Bergmann and contributors.

1.3. Implement a study case

util.php

```
<?php
class Util{
    public function convertToSlug($text) {
        $trim = trim($text);
        $replace = str_replace(' ', '-', $trim);
        return strtolower($replace);
    }
}
?>
```

1.4. Implement the test

utilTest.php

```
<?php

use PHPUnit\Framework\TestCase;

class UtilTest extends TestCase
{
    public function test_convertToSlug() {
        require 'util.php';
```

```
$cal = new Util();
$this->assertEquals("hi,-i'm-a-new-url",
$cal->convertToSlug("Hi, I'm a new Url"));
}
}
?>
```

1.5. Run the test

./vendor/bin/phpunit ./utilTest.php --color

Result:

PHPUnit 8.5.2 by Sebastian Bergmann and contributors.

R 1 / 1 (100%)

Time: 20 ms, Memory: 4.00 MB

There was 1 risky test:

1) UtilTest::test_convertToSlug

This test did not perform any assertions

/var/www/html/php-unit/utilTest.php:7

OK, but incomplete, skipped, or risky tests!

Tests: 1, Assertions: 0, Risky: 1.

1.6. Implement the test

Assertion:

```
$this->assertEquals("hi, i'm a new url", $cal->convertToSlug("Hi, I'm a
new Url"));
```

Result:

F 1 / 1 (100%)

Time: 20 ms, Memory: 4.00 MB

There was 1 failure:

1) UtilTest::test_convertToSlug

Failed asserting that two strings are equal.

--- Expected

+++ Actual

@@@ @@@

-'hi, i'm a new url'

+ 'hi,-i'm-a-new-url'

/var/www/html/php-unit/utilTest.php:10

FAILURES!

Tests: 1, Assertions: 1, Failures: 1.

Assertion:

```
$this->assertEquals("Hi,-I'm-a-new-Url", $cal->convertToSlug("Hi, I'm a  
new Url"));
```

Result:

PHPUnit 8.5.2 by Sebastian Bergmann and contributors.

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1 / 1 (100%)

Time: 20 ms, Memory: 4.00 MB

OK (1 test, 1 assertion)

1.7. Implement new requirements

util.php

```
return strtolower($replace);
```

utilTest.php

```
$this->assertEquals("Hi,-I'm-a-new-Url",  
$cal->convertToSlug("Hi, I'm a new Url"));
```

Result:

PHPUnit 8.5.2 by Sebastian Bergmann and contributors.

F

1 / 1 (100%)

Time: 22 ms, Memory: 4.00 MB

There was 1 failure:

1) UtilTest::test_convertToSlug

Failed asserting that two strings are equal.

--- Expected

+++ Actual

@@@ @@@

-'Hi,-I'm-a-new-Url'

+ 'hi,-i'm-a-new-url'

/var/www/html/php-unit/utilTest.php:10

FAILURES!

Tests: 1, Assertions: 1, Failures: 1.

Assertion:

```
$this->assertEquals("hi,-i'm-a-new-url",
$csl->convertToSlug("Hi, I'm a new Url"));
```

Result:

PHPUnit 8.5.2 by Sebastian Bergmann and contributors.

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1 / 1 (100%)

Time: 20 ms, Memory: 4.00 MB

OK (1 test, 1 assertion)

1.8. Implement the new functionality

until.php

```
return strtolower($replace);
```

utilTest.php

```
$this->assertEquals("hi,-i'm-a-new-url",
$csl->convertToSlug("Hi, I'm a new Url"));
```

1.9. Organize your code

app/util.php
tests/utilTest.php