# PHPUnit

## Overview

In this project you will learn to work with an open source developed testing tool called PHPUnit. Testing is one of the most important concepts of eXtremme Programming. It is important to carry out a professional project in which your code is covered by tests and that as far as possible you use the TDD methodology.

## Table of Contents

# Project Requirements

- You must create a repository in GIT
- You should not upload the dependencies
- Create a clear and orderly directory structure
- Both the code and the comments must be written in English
- Use the camelCase code style to define variables and function.
- In the case of using HTML, never use online styles
- In the case of using different programming languages always define the implementation in separate terms
- Remember that it is important to divide the tasks into several sub-tasks so that in this way you can associate each particular step of the construction with a specific commit
- You should try as much as possible that the commits and the planned tasks are the same
- Delete files that are not used or are not necessary to evaluate the project

# Risk Management Plan

Every project has risks. These risks must be taken into account to improve the workflow of the project. I've listed the risks for the project, along with the impact they might have, and the priority of them.

| iD | Risk | Consequence | Prob. (1-5) | imp. (1-5) | Pri. (1-25) | Mitigation approach |
|---|---|---|---|---|---|---|
| 1 | Breaking my computer | Can't do anything | 1 | 5 | 5 | Keep my repo work to date, look for other computers |
| 2 | Getting sick | Wouldn't be as productive | 2 | 3 | 6 | Eat and sleep well |
| 3 | Not concentrating enough | Won't com | 2 | 5 | 10 | Focus on the Minimum Viable Product. |
| 4 | Unrealistic deadlines | Deadlines wouldn't be met + development shortcuts would | 2 | 3 | 6 | Be more organized with the tasks, set new deadlines. |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | have been taken affecting the robustness of the code | | | | |
| 5 | Being unfocused | Loss of control over the development flow of the project | 4 | 5 | 20 | Focus on finishing the most important tasks only. |

# Tasks for the Project

Defining this part is crucial to the development of the project. It is important to make a good analysis of the situation to organize the project in a good way:

| # | Task | Priority (1-5) | Description | Difficulty (1-5) | Estimation |
|---|---|---|---|---|---|
| 1 | Reading the description | 5 | Reading the description of the project | 1 | 30 min |
| 2 | Create Repo | 3 | Creating git repo for the project with the ReadMe file | 1 | 2 min |
| 3 | Research and learning through tutorials | 4 | Watching tutorials to understand the project better | 3 | 2 hr |
| 4 | Installing and configuring phpunit and composer | 5 | Installing and configuring phpunit and composer for the development of the project | 5 | 2 hr |
| 6 | Creating the main files | 5 | Creating the main files that will be used in the project | 5 | 1 hr |
| 7 | Review | 2 | Review Project | 2 | 30 min |

# Chronogram

| # | Tuesday | Wednesday | Thursday |
|---|---------|-----------|----------|
| 1 | X | | |
| 2 | X | | |
| 3 | X | | |
| 4 | | X | |
| 5 | | X | |
| 6 | | X | |
| 7 | | | X |

## Git Workflow

For this project, all commits we'll be pushed directly to the Master branch. All commits will use a descriptive message, so that myself or other users can easily go to the Git version that they need to. This is very important for working in teams as it increases communication and efficiency between all members.

## Technologies used

For this project, we will use the following technologies:

- Visual Studio Code.
- Git.
- Php
- PhpUnit

## Lessons learned

- PhpUnit is a unit testing framework for the PHP programming language.

- The goal of unit testing is to isolate each part of the program and show that the individual parts are correct.
- Php can help to verify many things, like strings, arrays, classes, etc.

## Incidents

- At first, I had some difficulties installing PHPUnit.
- I experienced some difficulties understanding how PHPUnit works.