



**TEK-UP Private Higher School of Technology &
Engineering**

Labs (Symfony)

Wisssem ELJAOUED
wisssem.eljaoued@ensi-uma.tn

A.Y. 2025-2026

Lab 1

**Preparing the environment
+ Creating a project**

Outline

I.0. Prerequisite

I.1. Environment Variable

I.2. Creating a project

I.3. Project Configuration

I.4. Project Execution

I.0. Prerequisite

- WampServer or Xampp installed
 - Add PHP as an environment variable
 - IDE: PHPStorm (or other)
-
- Use a PHP version greater than or equal to PHP 8.1
 - Using Symfony version 6.4.x (or 7.4.x)

I.0. Prerequisite

PHPStorm

JetBrains Account

Log in to manage all your JetBrains products and services

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New here? [Create an account](#)

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Se connecter avec Google

JET BRAINS

Sélectionner un compte

pour accéder à l'application [JetBrains Account](#)

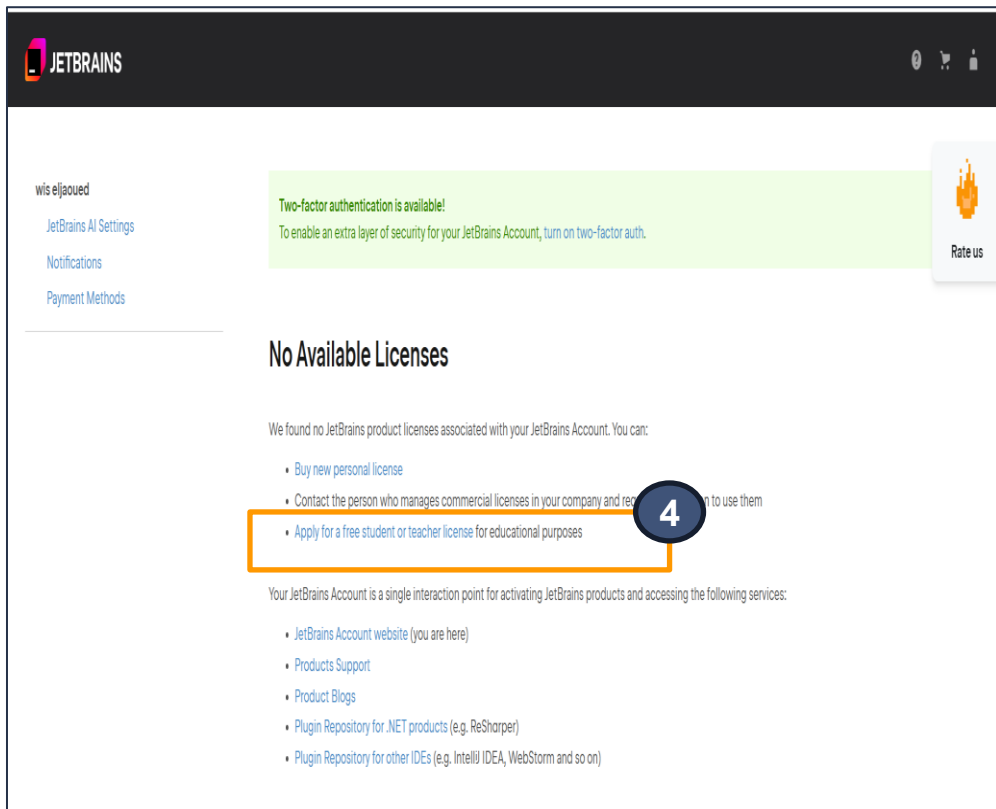
wissem eljaoued
wissem.eljaoued@gmail.com

Utiliser un autre compte

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I.O. Prerequisite

PHPStorm



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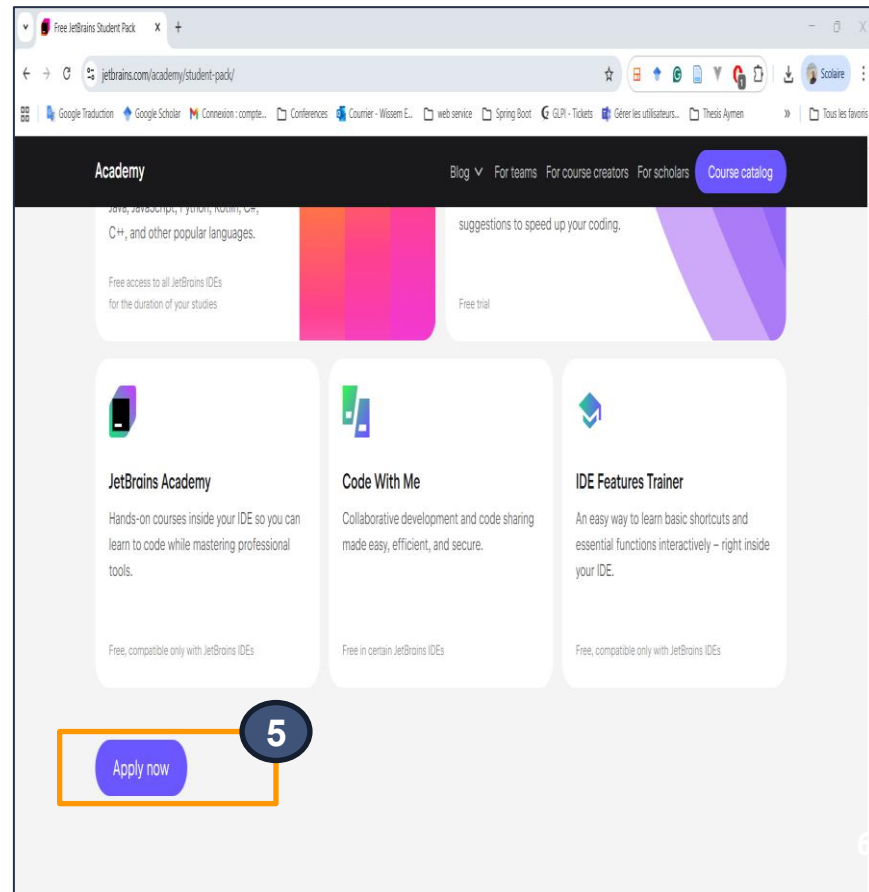
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4



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Status: ☒ I'm a student ☐ I'm a teacher

Country / region:

Level of study:

Is Computer Science or Engineering your major field of study?
☒ Yes ☐ No

Email address: **6**

I certify that the university email address provided above is valid and belongs to me.

Personal email:

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You must use an educational email (**tek-up.de**)

Name:

Your full name as it appears in your passport, driver's license, identity card, or other legal documents.

☐ I am under 13 years old

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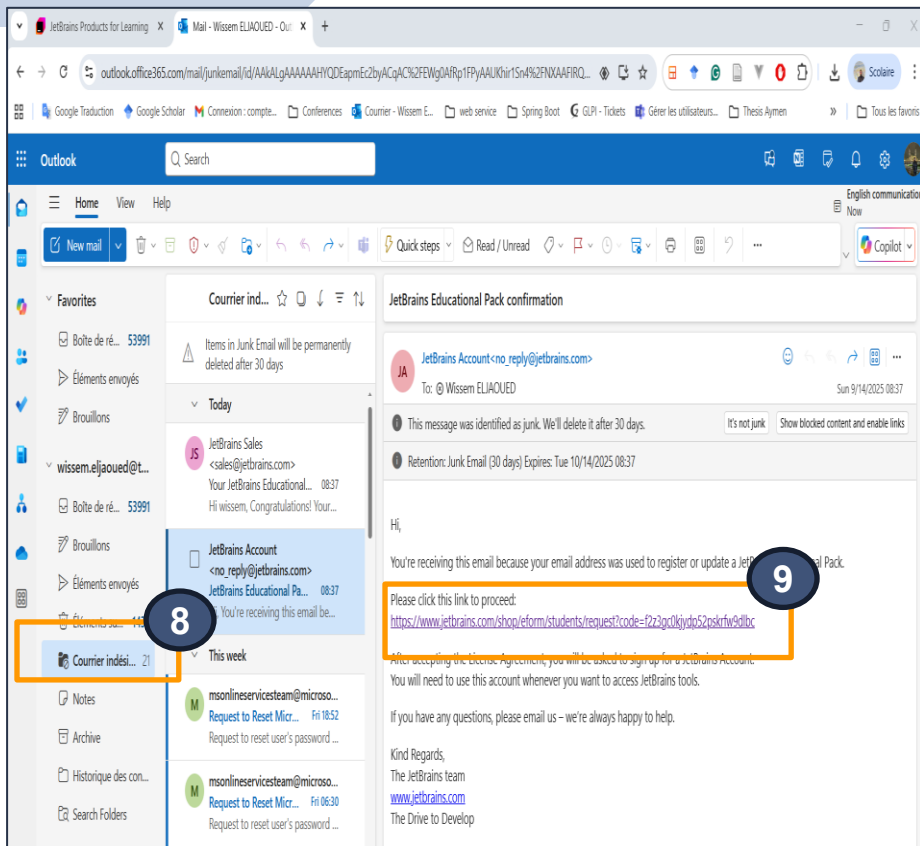
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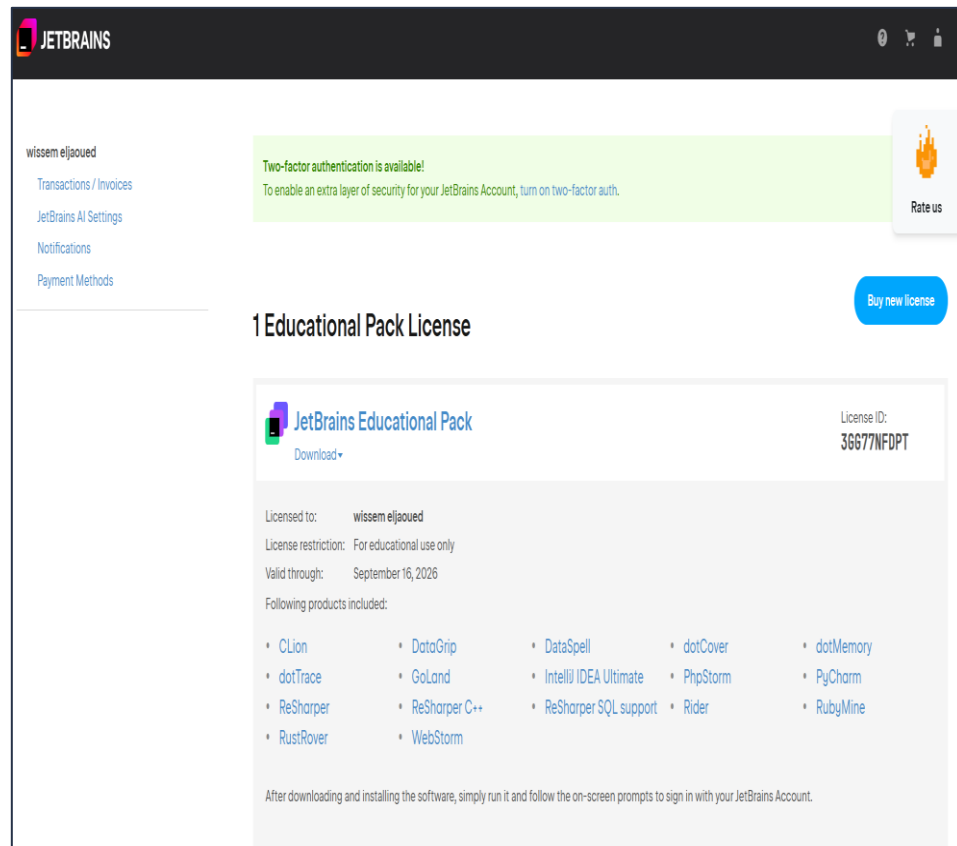
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You will receive an email in the Junk section

I.O. Prerequisite



PHPStorm

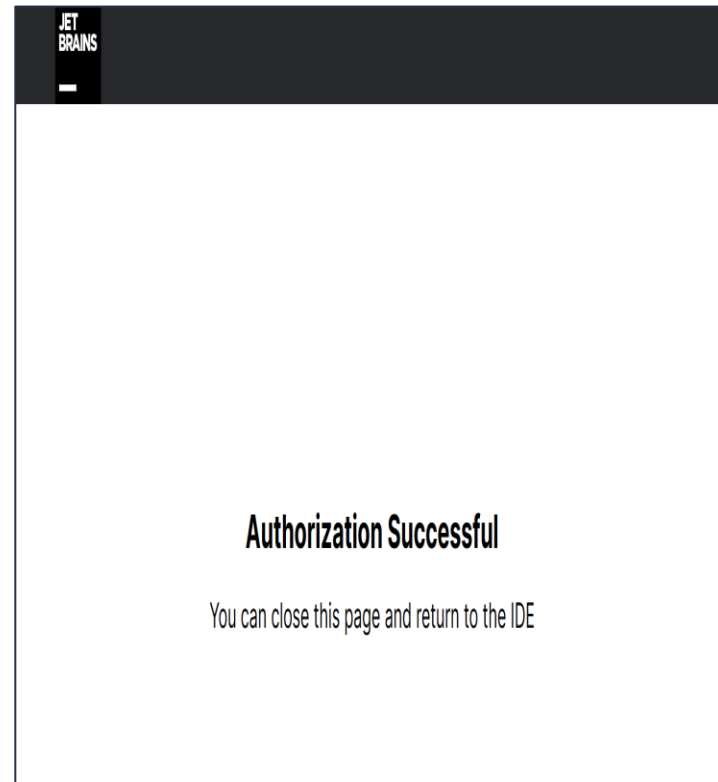
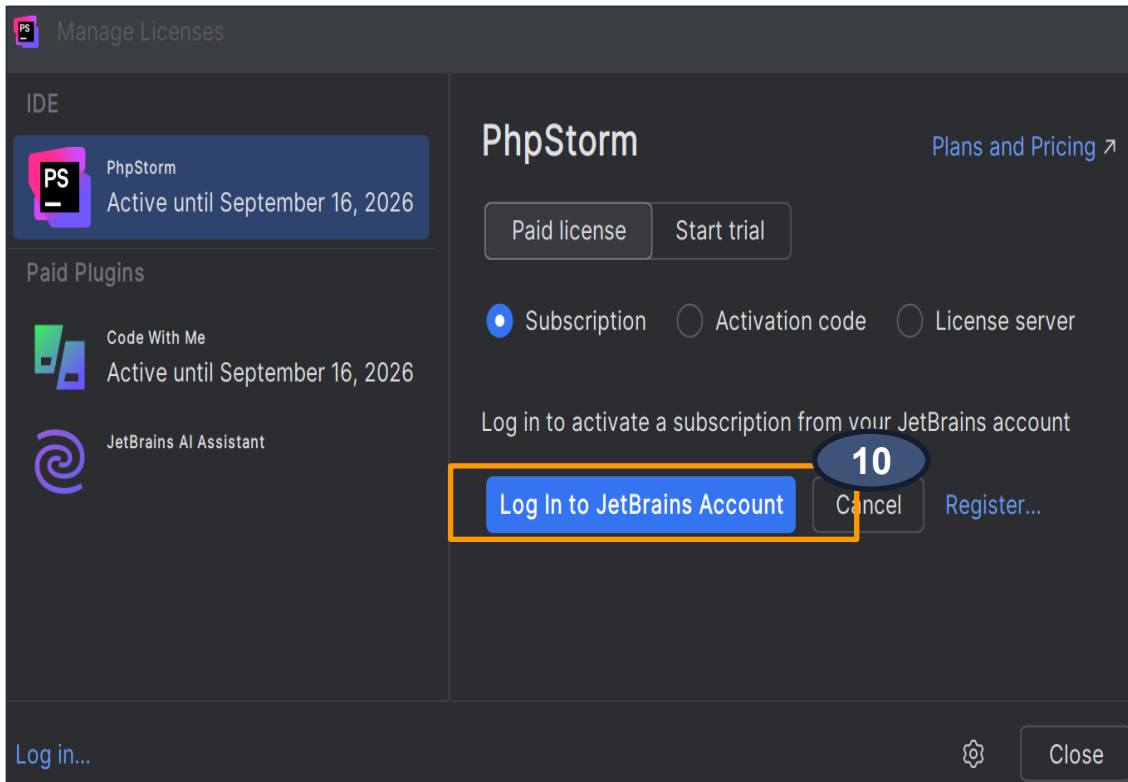


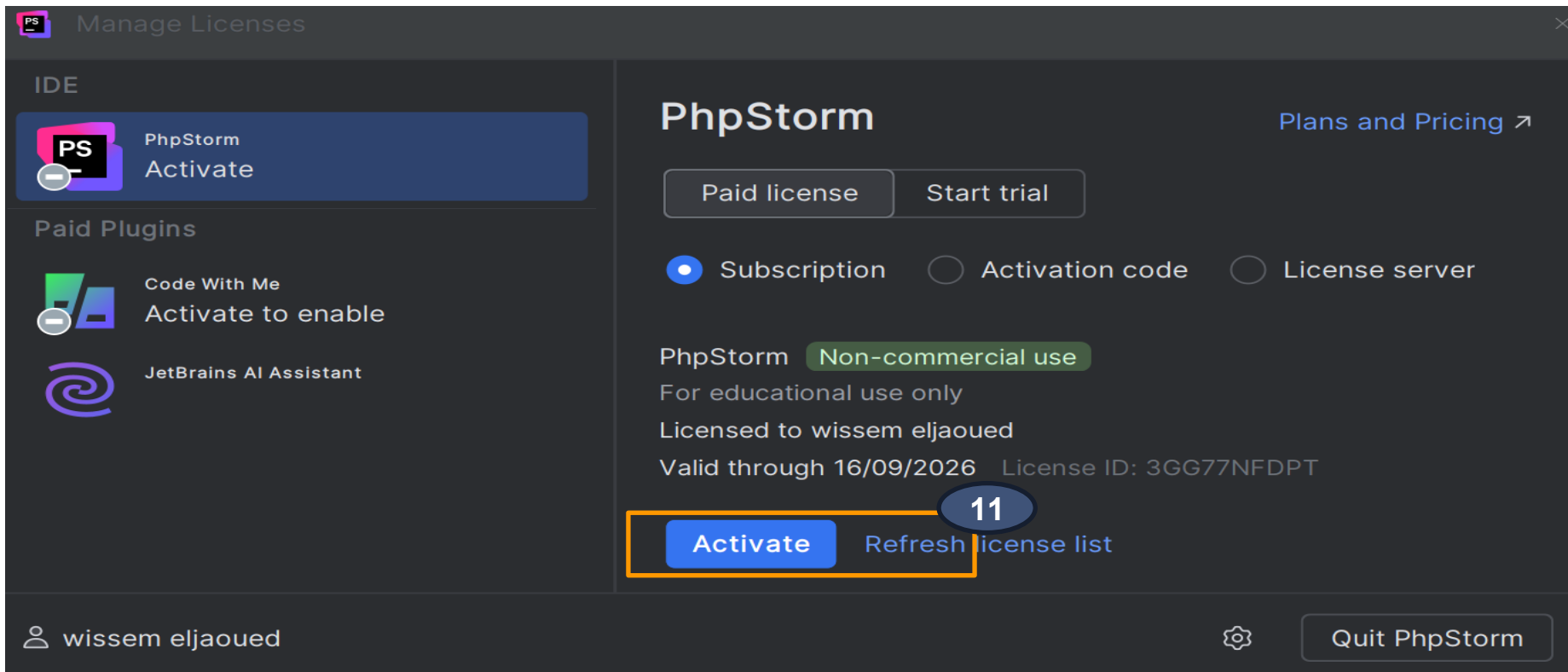
9

Open your Tek-up account with outlook office. Next, visit the link received, then open your jetbrains account again (using your google account)

8

Go to PHPStorm





Outline

I.0. Prerequisite

I.1. Environment Variable

I.2. Creating a project

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I.4. Project Execution

I.1. Environment Variable

Propriétés système

1

Nom de l'ordinateur Matériel
Paramètres système avancés Protection du système Utilisation à distance

Vous devez ouvrir une session d'administrateur pour effectuer la plupart de ces modifications.

Performances

Effets visuels, planification du processeur, utilisation de la mémoire et mémoire virtuelle

Paramètres...

Profil des utilisateurs

Paramètres du Bureau liés à votre connexion

Paramètres...

Démarrage et récupération

Informations de démarrage du système, de défaillance du système et de débogage

Paramètres...

Variables d'environnement...

OK

Annuler

Appliquer



Variables d'environnement

2

Variables utilisateur pour wisse

Variable	Valeur
IntelliJ IDEA	C:\Program Files\JetBrains\IntelliJ IDEA 2023.2.1\bin;
OneDrive	C:\Users\wisse\OneDrive
OneDriveConsumer	C:\Users\wisse\OneDrive
Path	C:\Users\wisse\AppData\Local\Programs\Python\Python313\...
PhpStorm	C:\Program Files\JetBrains\PhpStorm 2025.2.1\bin
PyCharm	C:\Program Files\JetBrains\PyCharm 2025.1\bin;
TEMP	C:\Users\wisse\AppData\Local\Temp

Nouvelle...

Modifier...

Supprimer

Variables système

Variable	Valeur
asl.log	Destination=file
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	8
OS	Windows_NT
Path	C:\Program Files\Common Files\Oracle\Java\javapath;C:\Prog...
PATHEXT	COM; EXE; BAT; CMD; VBS; VBE; JS; JSE; WSE; WSH; MSC...

Nouvelle...

Modifier...

Supprimer

OK

Annuler

I.1. Environment Variable

3

Modifier la variable d'environnement

C:\Program Files\Common Files\Oracle\Java\javapath

C:\Program Files (x86)\Common Files\Oracle\Java\java8path

C:\Program Files (x86)\Common Files\Oracle\Java\javapath

%SystemRoot%\system32

%SystemRoot%

%SystemRoot%\System32\Wbem

%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\

%SYSTEMROOT%\System32\OpenSSH\

C:\xampp\php

C:\Program Files\Docker\Docker\resources\bin

C:\Program Files\Git\cmd

C:\Program Files\Git\mingw64\bin

C:\Program Files\Git\usr\bin

C:\Program Files\Git\bin

C:\Program Files\MiKTeX\miktex\bin\x64\

C:\Program Files\PuTTY\

Nouveau

Modifier

Parcourir...

Supprimer

Déplacer vers le haut

Déplacer vers le bas

Modifier le texte...

OK

Annuler



4

Invite de commandes

Microsoft Windows [version 10.0.26100.6584]
(c) Microsoft Corporation. Tous droits réservés.

C:\Users\wisse>php -v

PHP Warning: Module "openssl" is already loaded in Unknown on line 0

Warning: Module "openssl" is already loaded in Unknown on line 0
PHP 8.2.4 (cli) (built: Mar 14 2023 17:54:25) (ZTS Visual C++ 2019 x64)
Copyright (c) The PHP Group
Zend Engine v4.2.4, Copyright (c) Zend Technologies

C:\Users\wisse>

Outline

I.0. Prerequisite

I.1. Environment Variable

I.2. Creating a project

I.3. Project Configuration

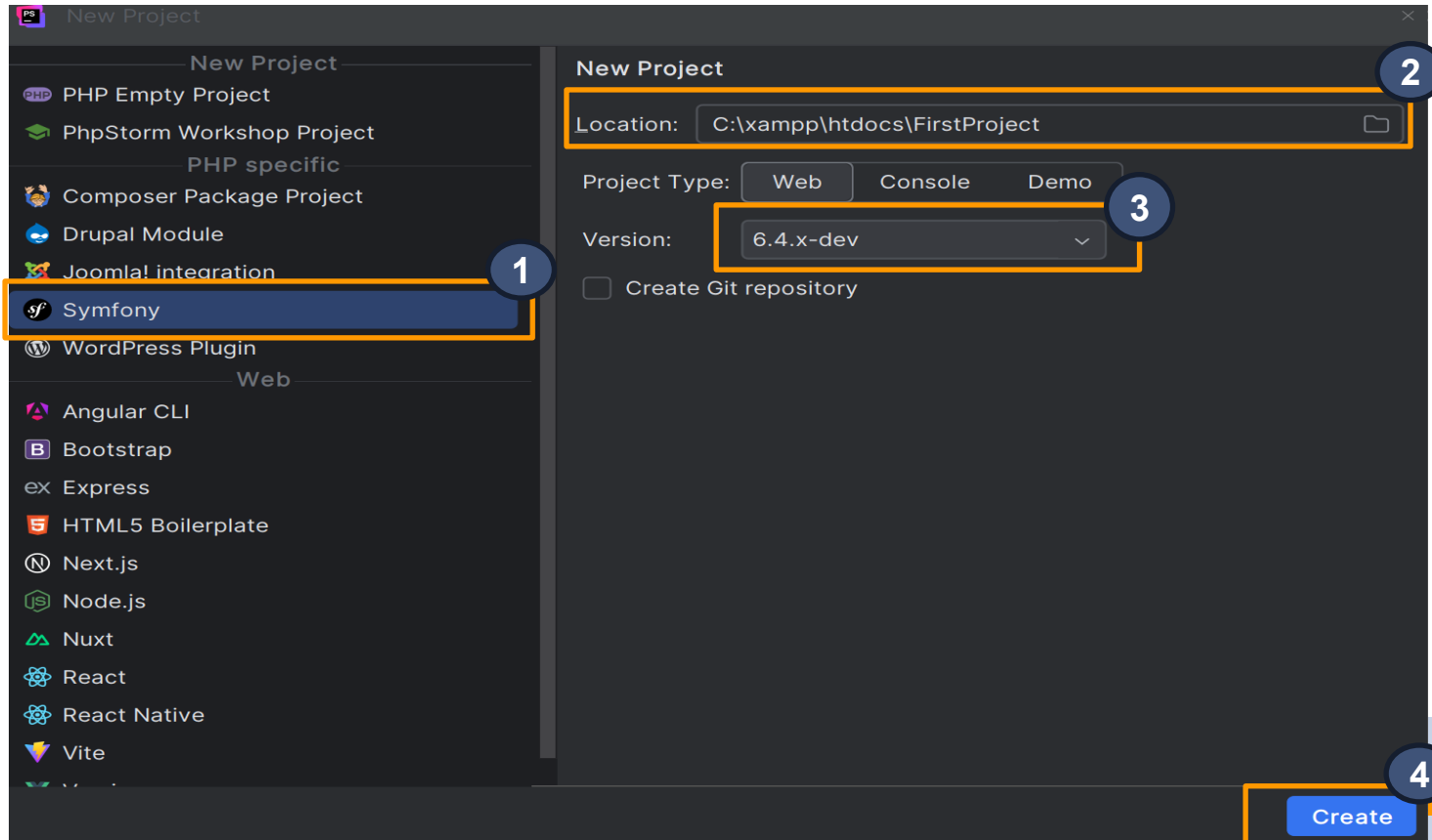
I.4. Project Execution

Method 1: Using PHPStorm (Symfony)

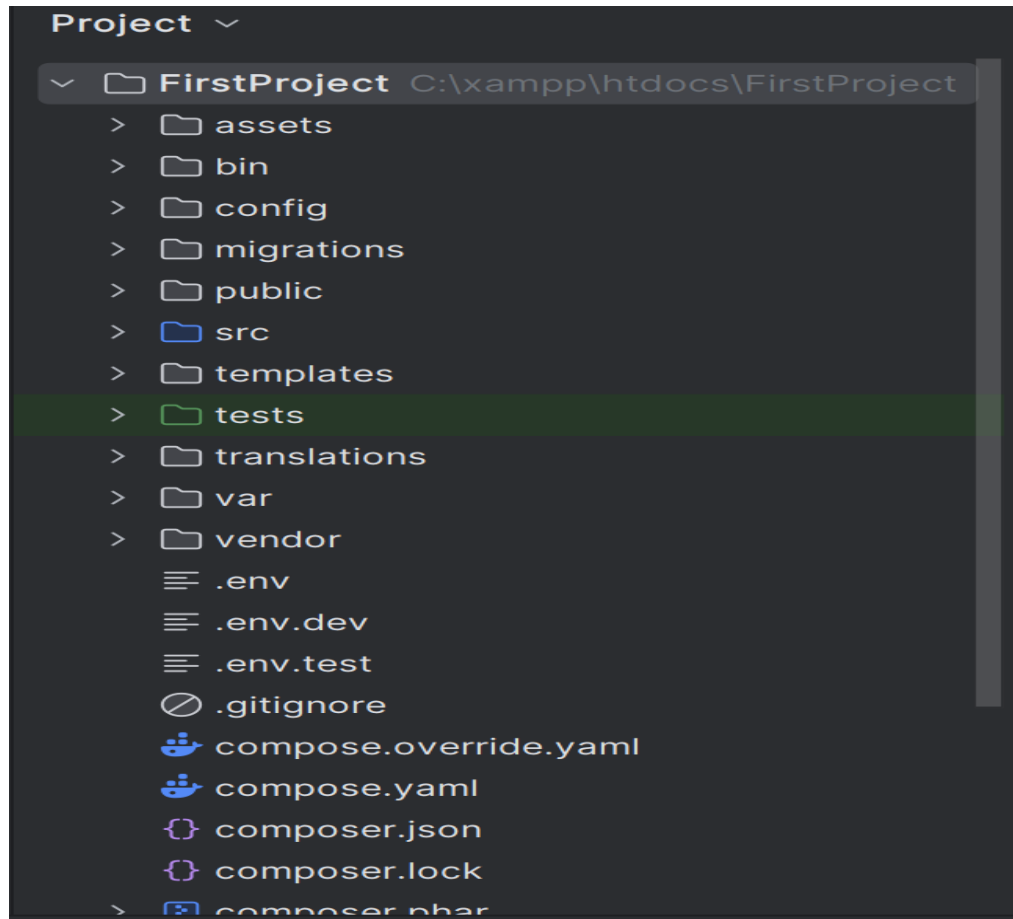
I.2. Creating a project

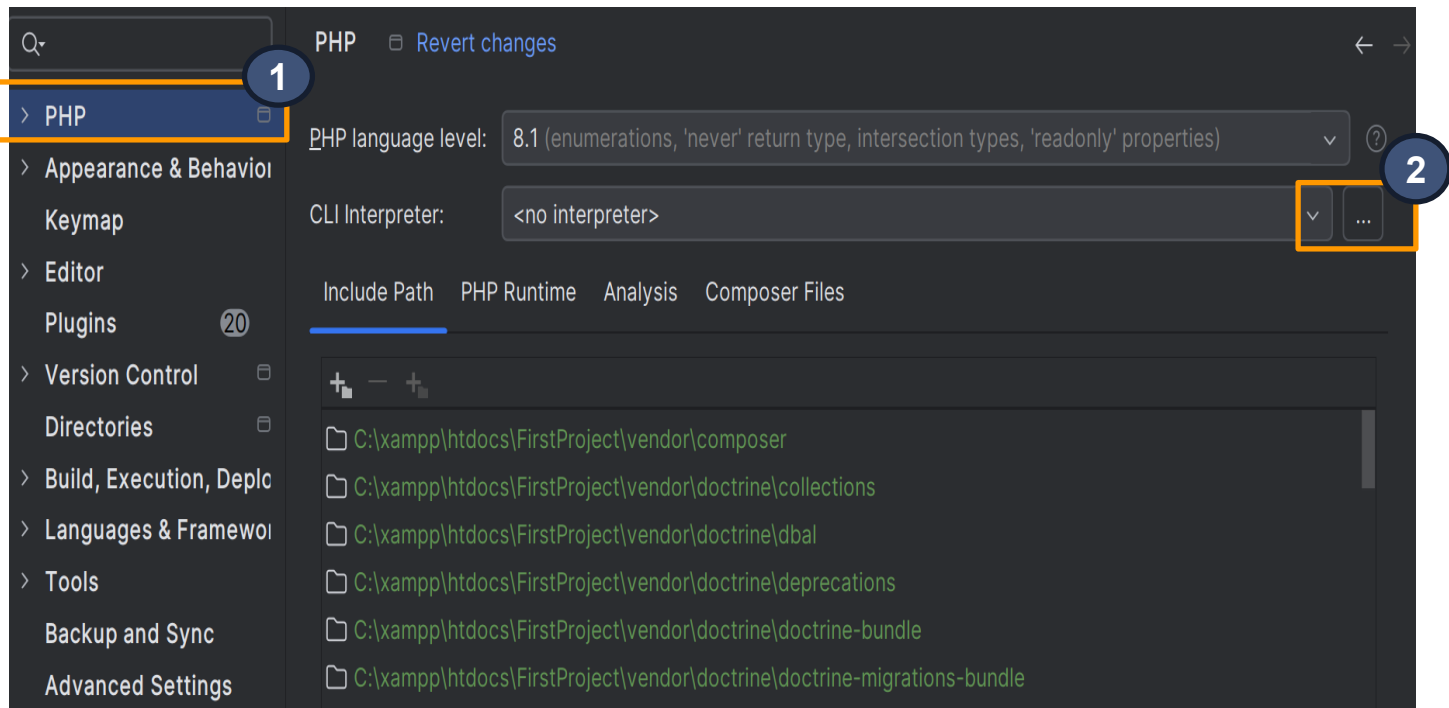
Method 1: Using PHPStorm

- 1- Open PHPStorm
- 2- New Project



- Project Structure

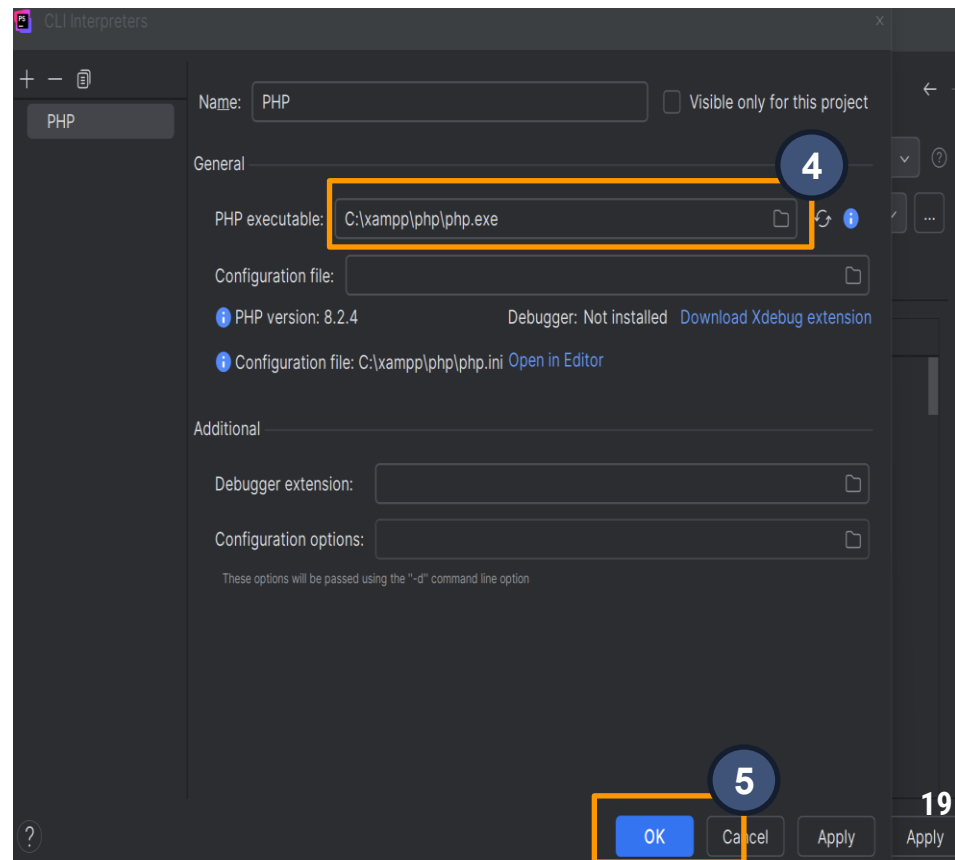
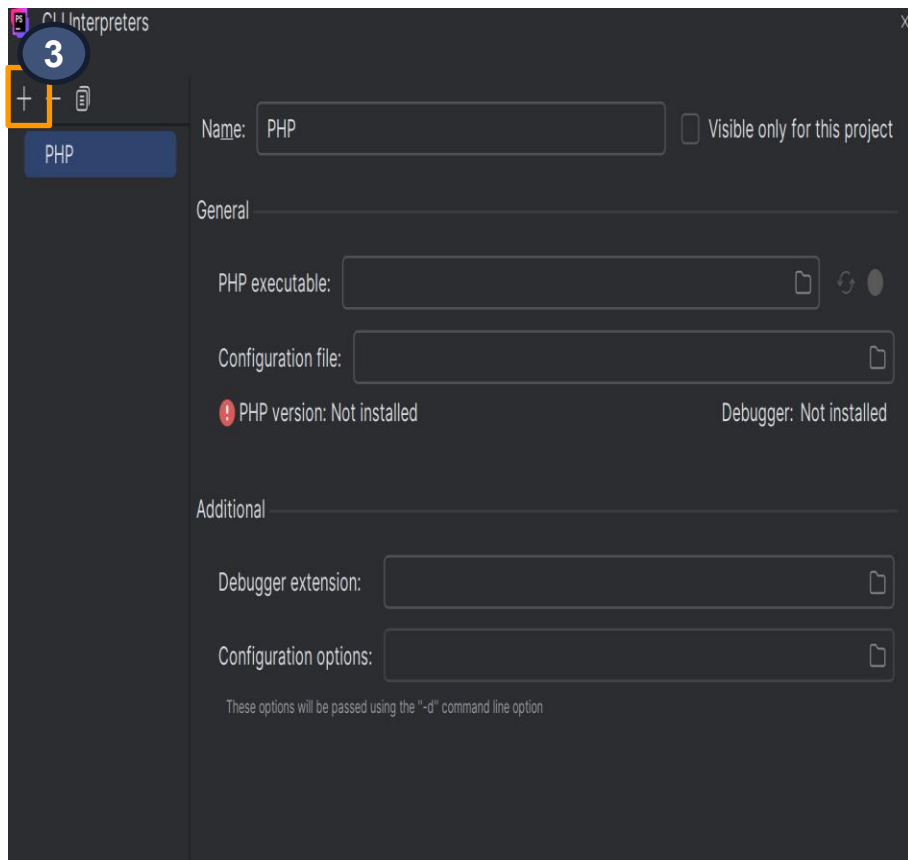




- 3- Open Settings
- 4- Add PHP

I.2. Creating a project

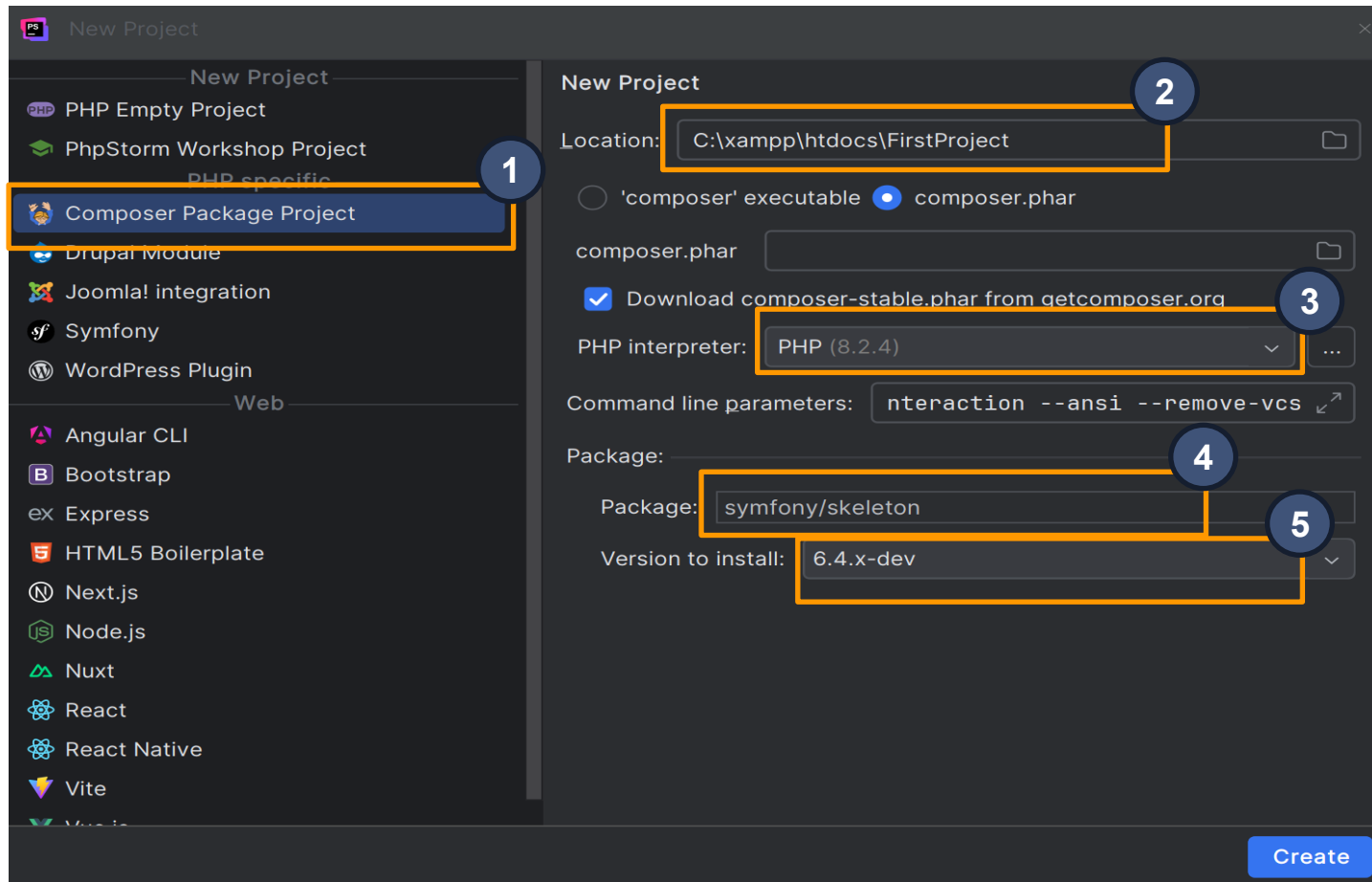
Method 1: Using PhpStorm



Method 2: Using Composer

I.2. Creating a project

Method 2: Using Composer



Method 3: Using **Symfony** Command Line Interface (CLI)

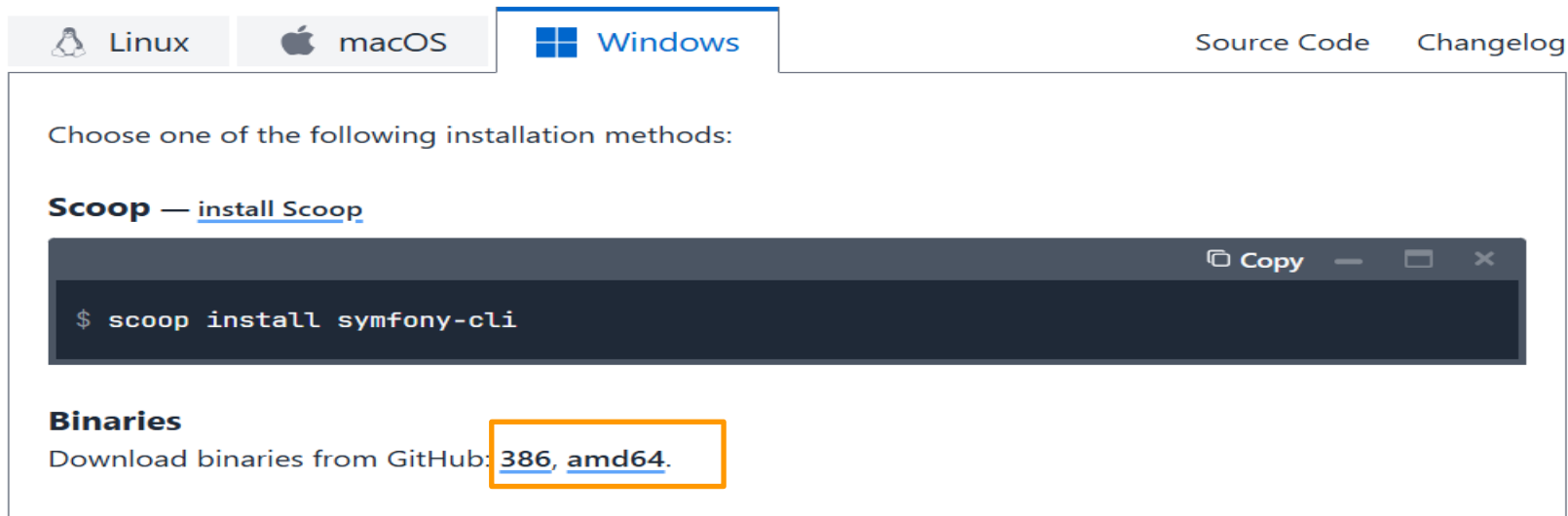
❖ What is Symfony CLI ?

The Symfony CLI is a command-line tool that helps you:

- Create new Symfony projects quickly
- Run a local web server (*symfony serve*)
- Manage environment variables and deployments
- Check requirements and fix common issues

❖ Symfony CLI Installation

- 1- Download [composer](https://getcomposer.org/download/) from: <https://getcomposer.org/download/>
- 2- Download the installer from: <https://symfony.com/download>
- 3- Run the **.exe** and follow the steps.
- 4- It will install symfony.exe and add it to your PATH automatically.



The screenshot shows the Symfony CLI installation page for Windows. At the top, there are tabs for Linux, macOS, and Windows (which is selected). To the right of the tabs are links for 'Source Code' and 'Changelog'. Below the tabs, the text 'Choose one of the following installation methods:' is displayed. Under this, there is a section titled 'Scoop — [install Scoop](#)'. Below this section is a terminal window with the command `$ scoop install symfony-cli`. At the bottom, there is a section titled 'Binaries' with the text 'Download binaries from GitHub: [386](#), [amd64](#).' The '386, amd64' text is highlighted with an orange box.

Linux macOS Windows Source Code Changelog

Choose one of the following installation methods:

Scoop — [install Scoop](#)

```
$ scoop install symfony-cli
```

Binaries
Download binaries from GitHub: [386](#), [amd64](#).

❖ Verify Symfony CLI Installation

Run : **symfony -v**

```
C:\Users\wis...>symfony -v
Symfony CLI version 5.5.8 (c) 2021-2025 Fabien Potencier #StandWithUkraine Support Ukraine (2023-08-03T11:39:47Z - stable)
Symfony CLI helps developers manage projects, from local code to remote infrastructure

These are common commands used in various situations:

Work on a project locally

new                Create a new Symfony project
server:start       Run a local web server
server:stop        Stop the local web server
security:check     Check security issues in project dependencies
composer           Runs Composer without memory limit
console            Runs the Symfony Console (bin/console) for current project
php, pecl, pear, php-fpm, php-cgi, php-config, phpdbg, phpize Runs the named binary using the configured PHP version
```

Run : **symfony new MyFirstProject --webapp --version=6.4**

```
C:\>cd xampp\htdocs  
  
C:\xampp\htdocs>symfony new MyFirstProject --webapp --version=6.4  
* Creating a new Symfony 6.4 project with Composer  
  (running C:\composer\composer.phar create-project symfony/skeleton C:\xampp\htdocs\MyFirstProject 6.4.* --no-interaction)  
  
* Setting up the project under Git version control  
  (running git init C:\xampp\htdocs\MyFirstProject)  
  
  (running C:\composer\composer.phar require webapp --no-interaction)  
  
[OK] Your project is now ready in C:\xampp\htdocs\MyFirstProject
```

❖ Run the Local Web Server

- 1- Go inside your project folder: run: **cd MyFirstProject**

```
C:\xampp\htdocs>cd MyFirstProject  
C:\xampp\htdocs\MyFirstProject>
```

- 2- Run: **symfony serve**
- 3- access to <http://127.0.0.1:8000>

Outline

I.0. Prerequisite

I.1. Environment Variable

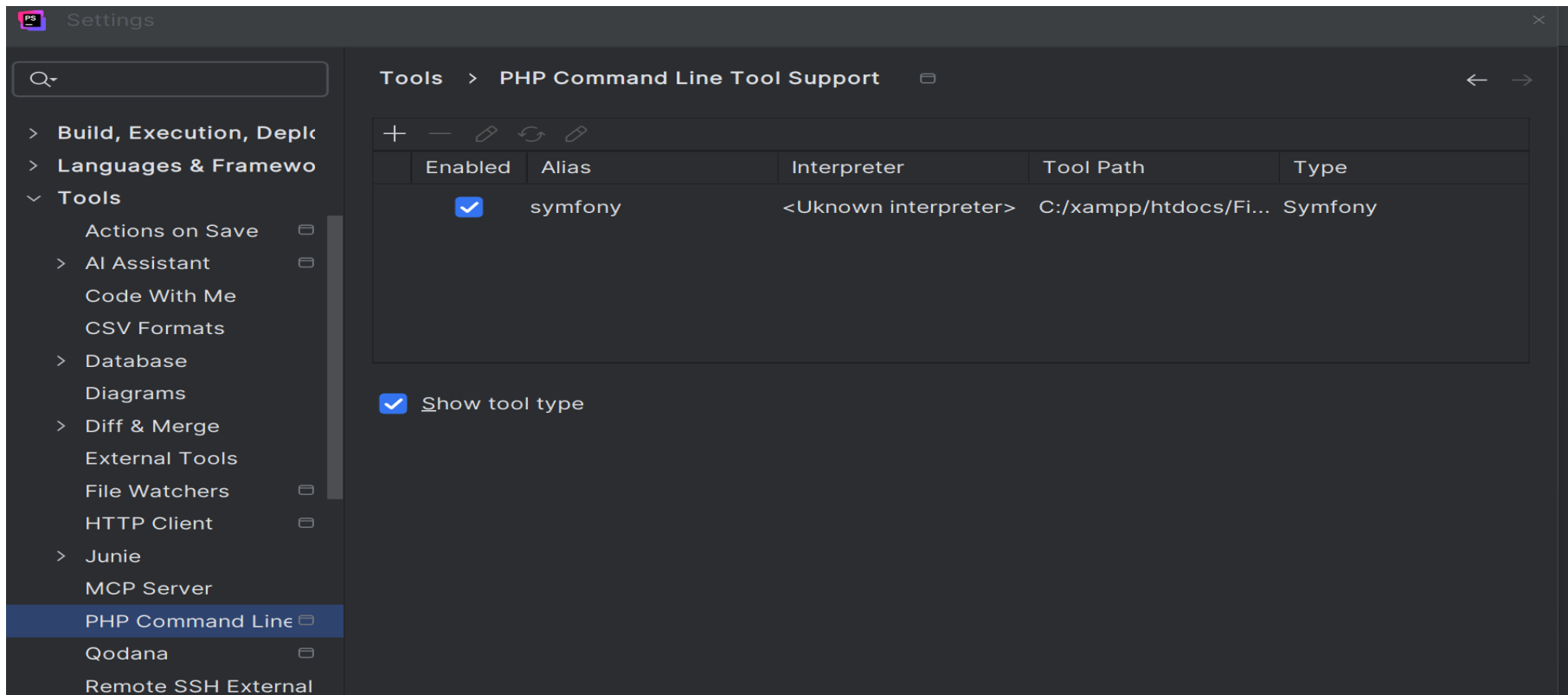
I.2. Creating a project

I.3. Project Configuration

I.4. Project Execution

- In this part we will see how to use the PHPStorm console that we will use it in our Symfony projects
- Symfony includes a utility that allows us to type command lines that we will use in all Symfony workbenches.
- In PHPStorm we have to configure the **Line Tools Console command** (which is displayed by pressing **Ctrl-Shift-X** or **double click on Ctrl**) through which we will execute the Symfony commands.

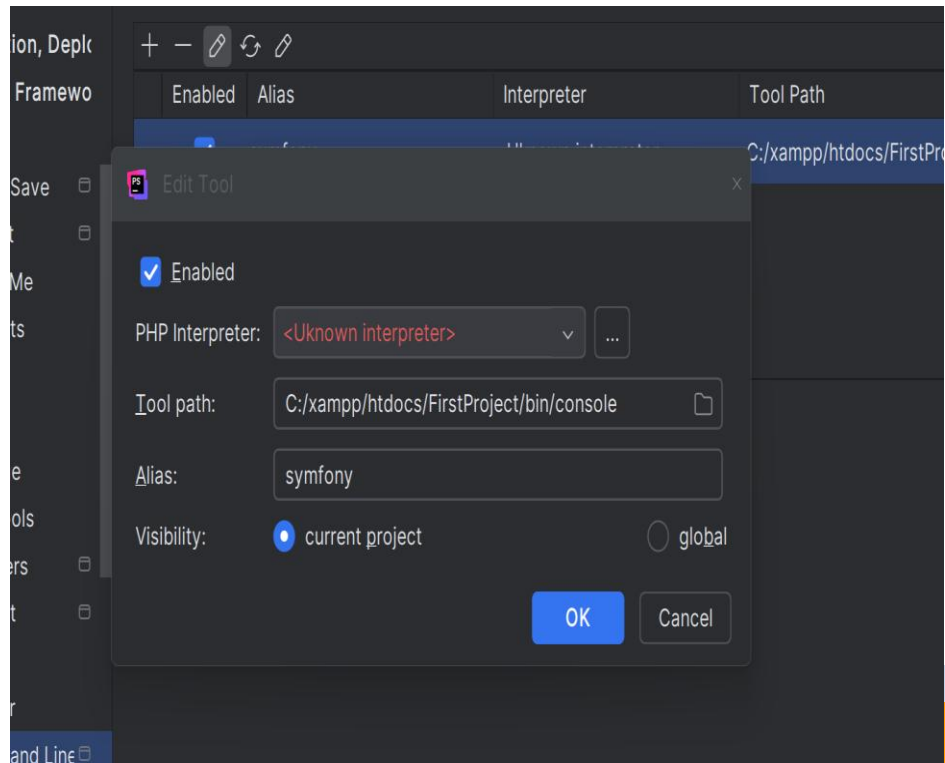
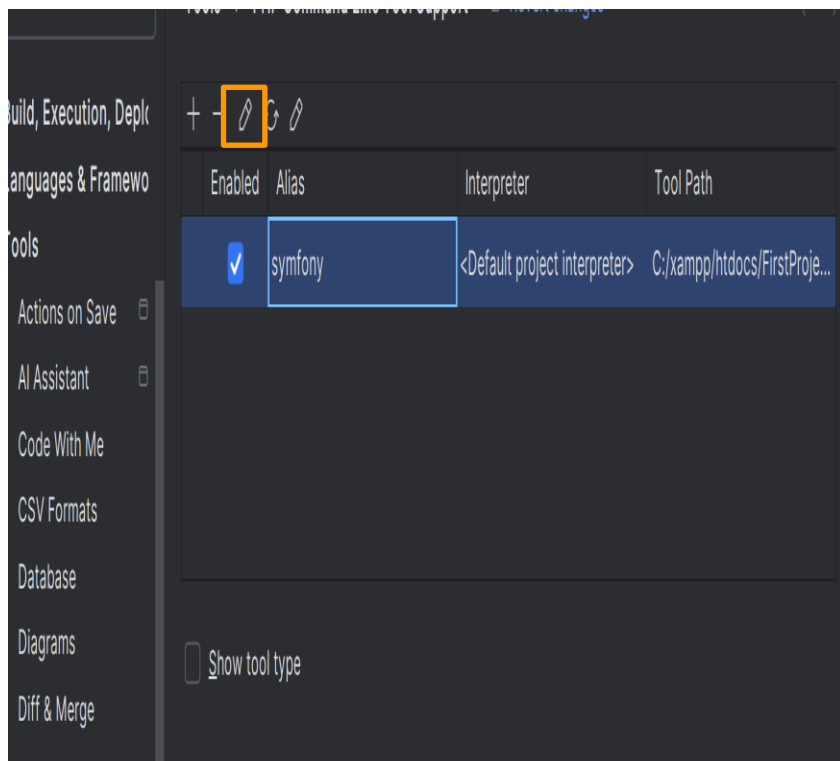
1. To configure this console, go to  -> **Settings->Tools->PHP Command Line Tool Support**



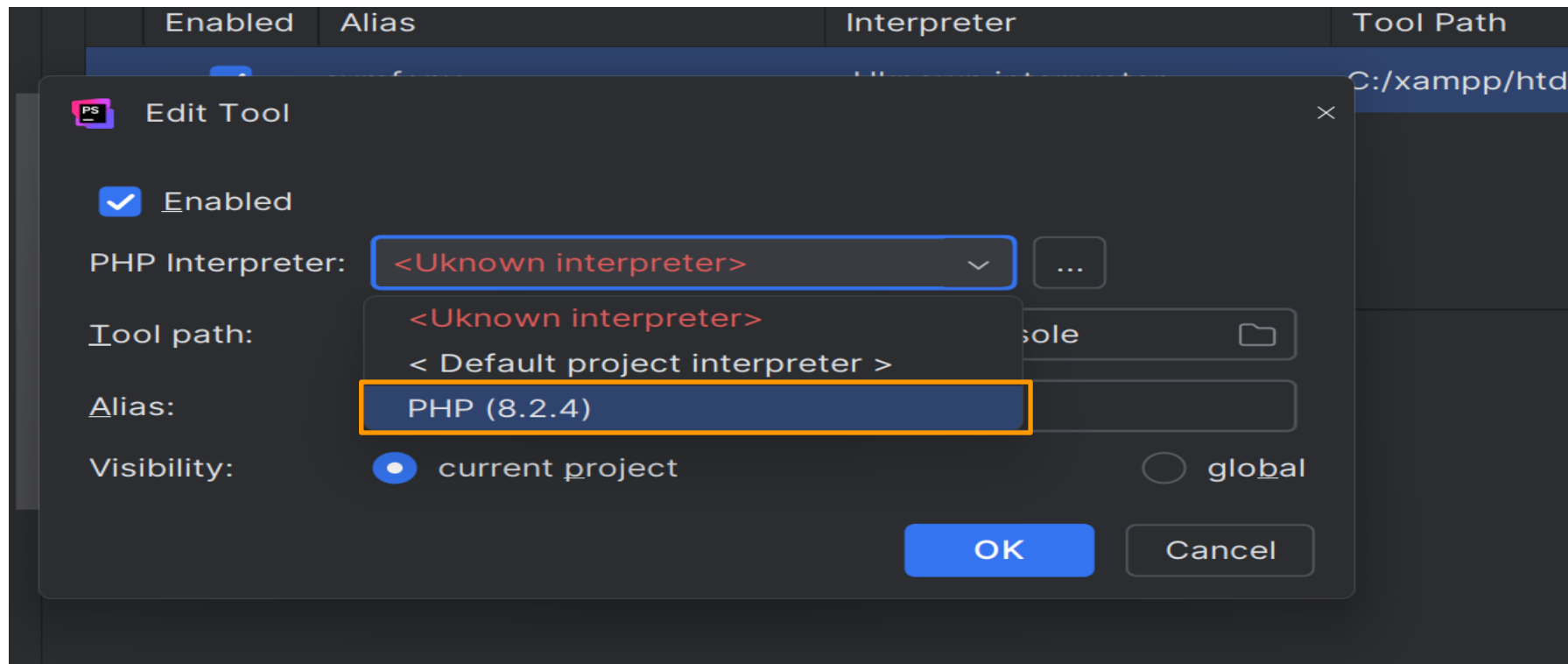
1.3. Project configuration

Adding Symfony Commands

2. You need to specify the PHP interpreter for Symfony, so press the **edit button**

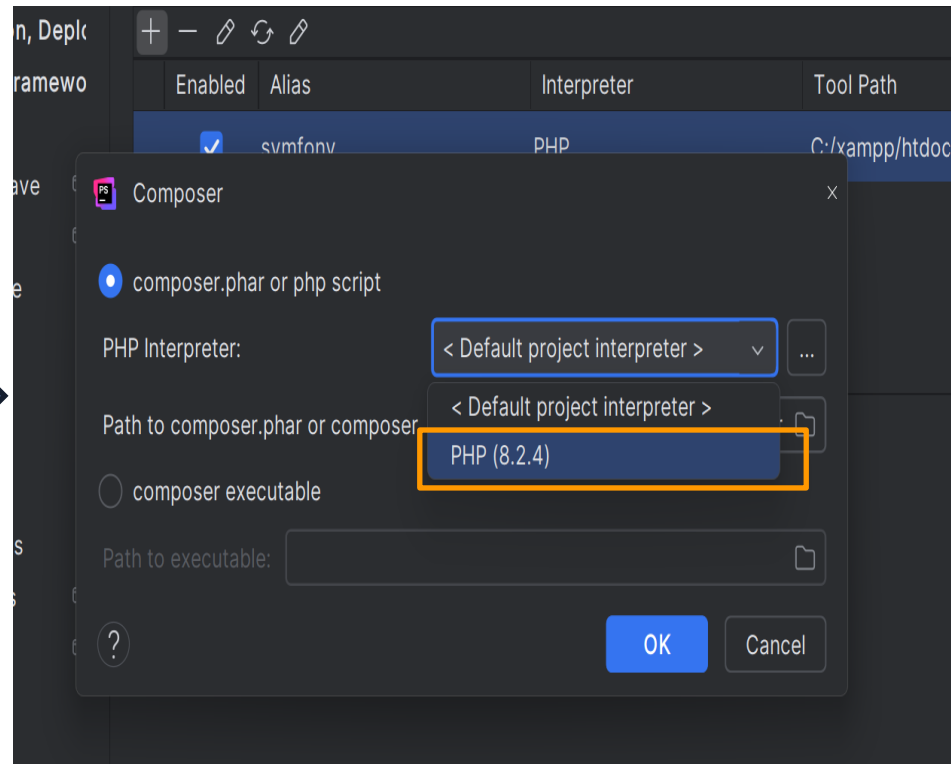
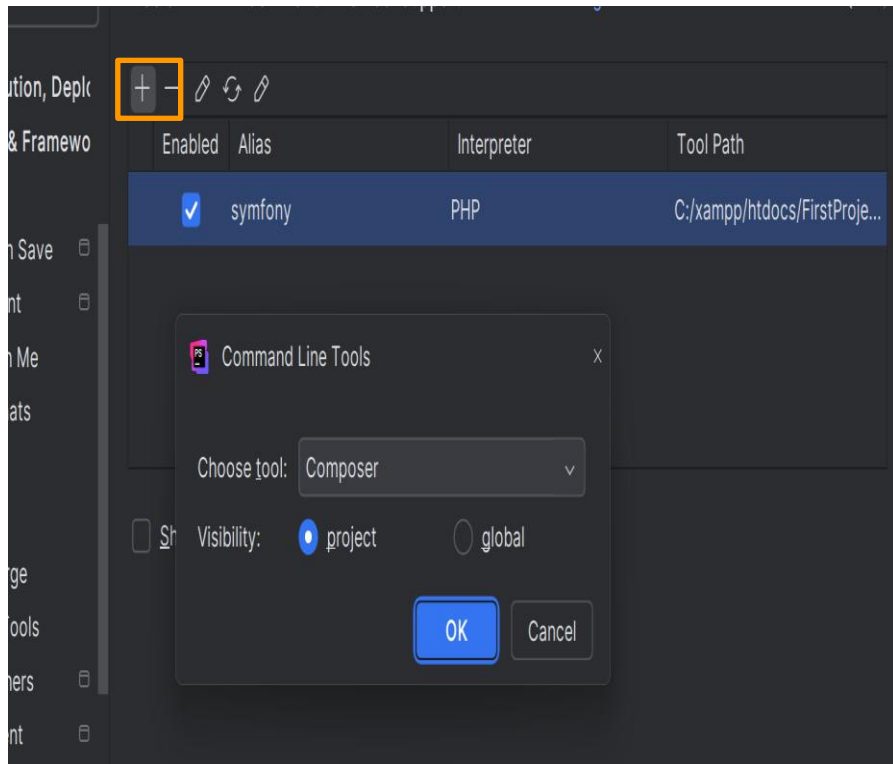


3. Select the PHP interpreter



I.3. Project configuration

4. Add *Composer*



Adding Symfony Commands

Outline

I.0. Prerequisite

I.1. Environment Variable

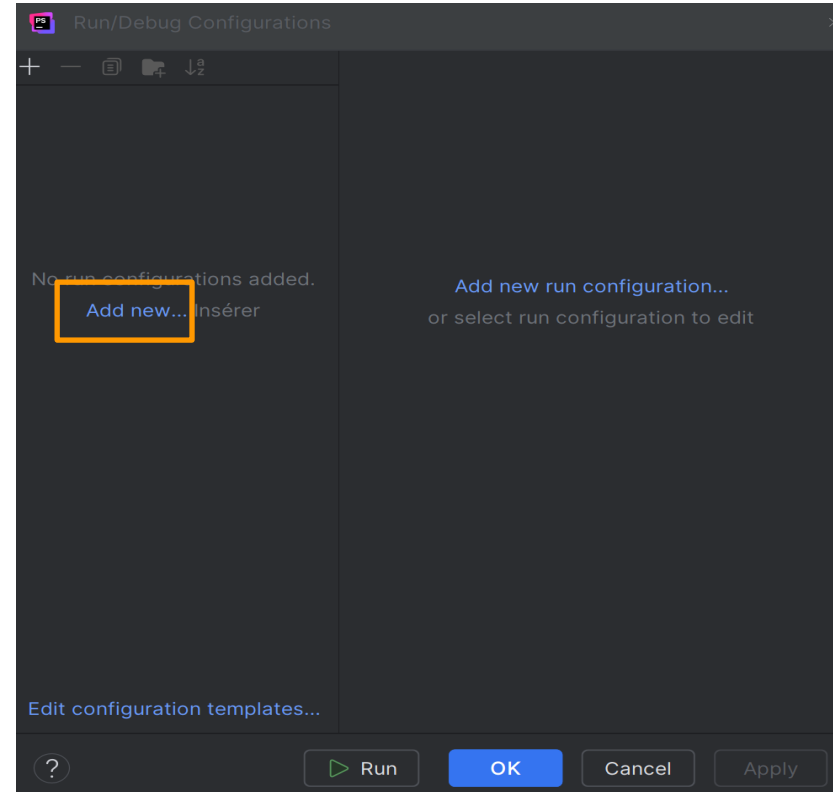
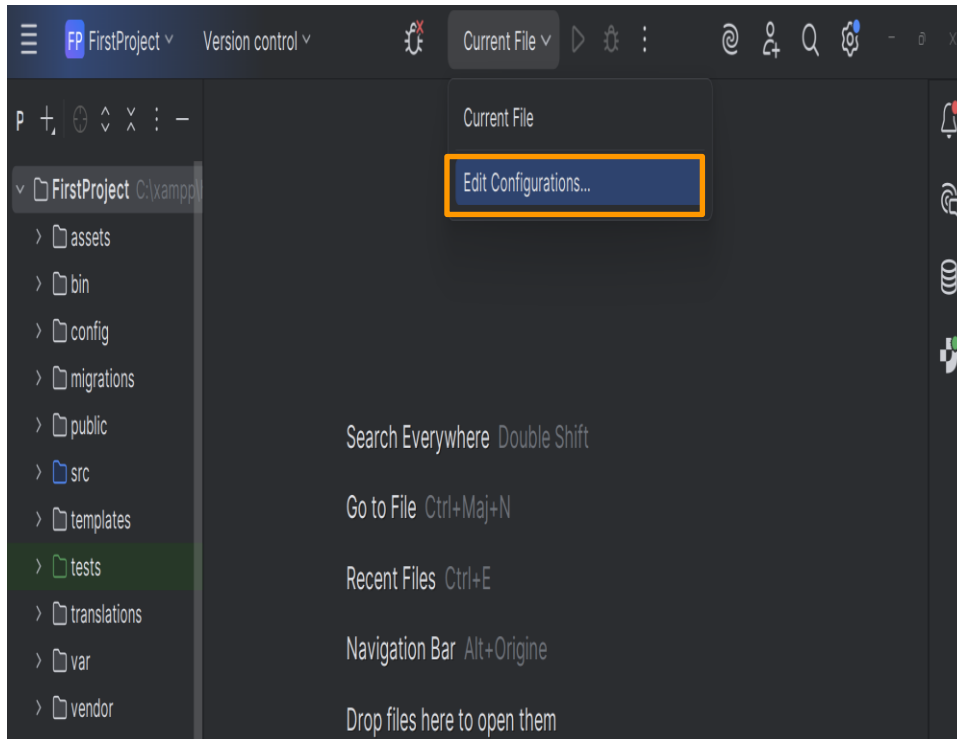
I.2. Creating a project

I.3. Project Configuration

I.4. Project Execution

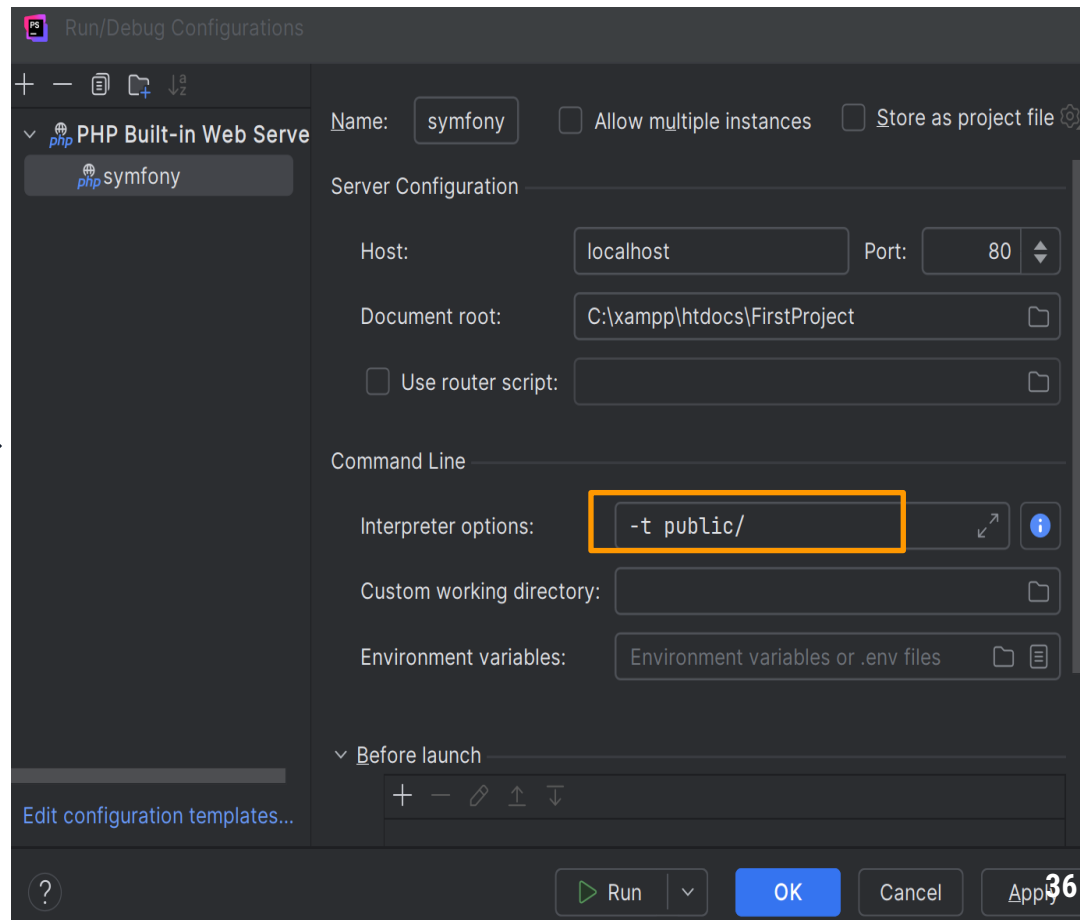
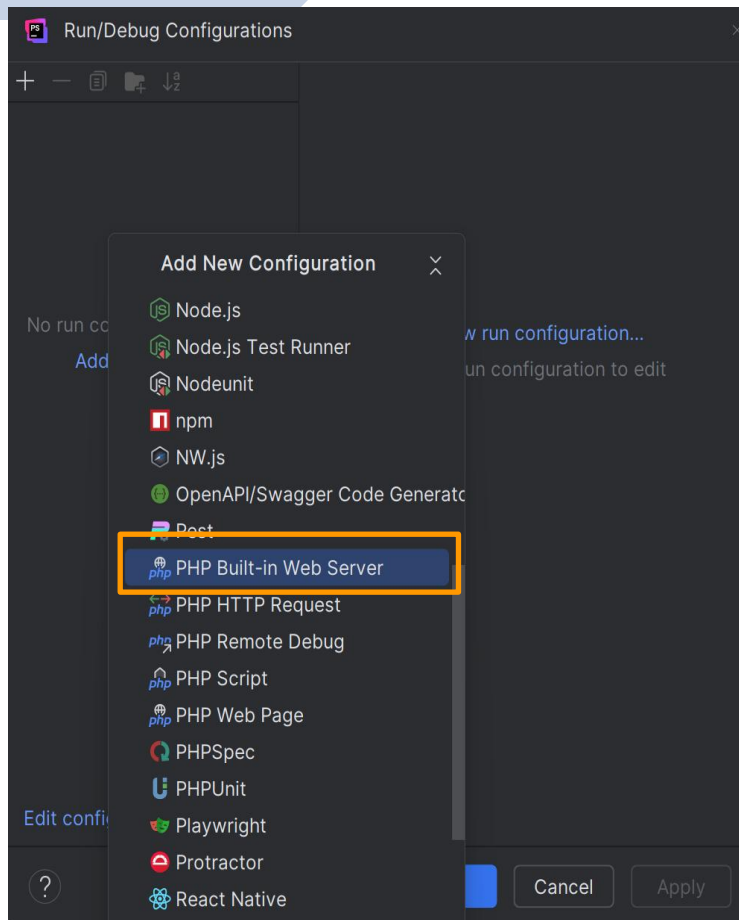
I.4. Project execution

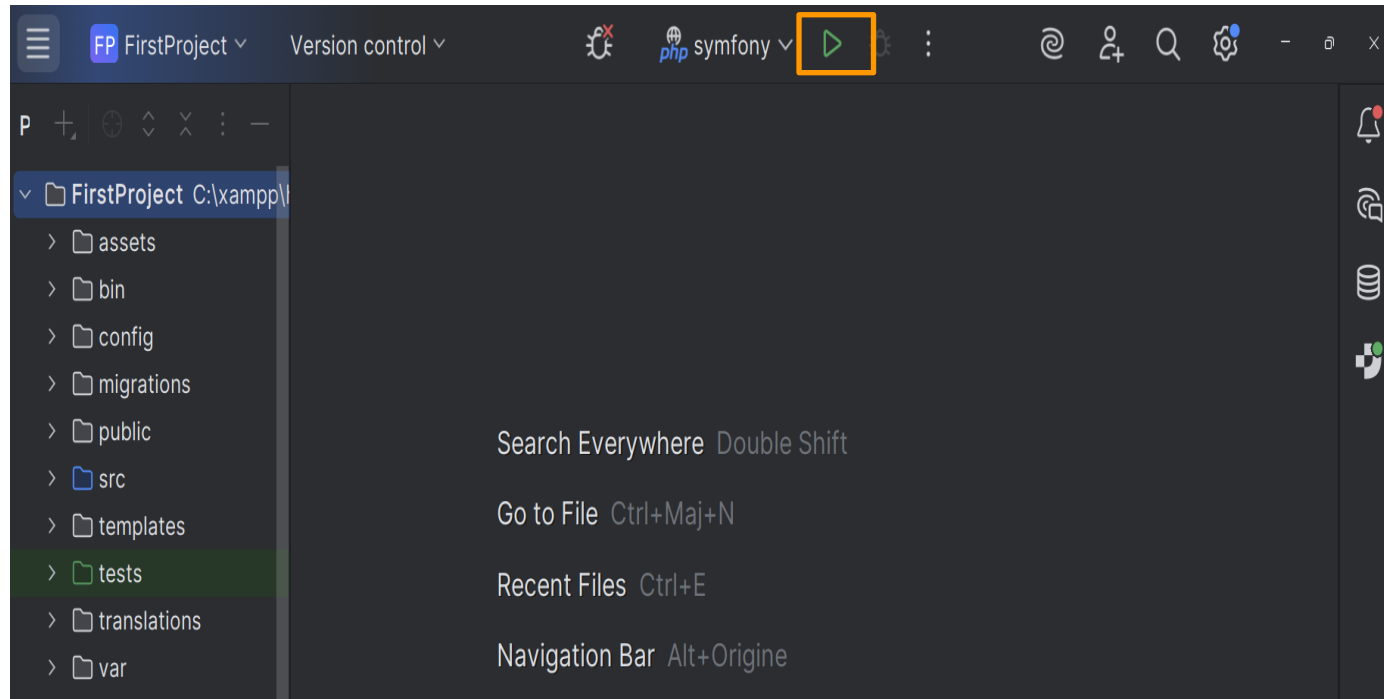
Adding Run Config



I.4. Project execution

Adding Run Config





I.4. Project execution

Run

