TEK-UP Private Higher School of Technology & Engineering

Labs (Symfony)

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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

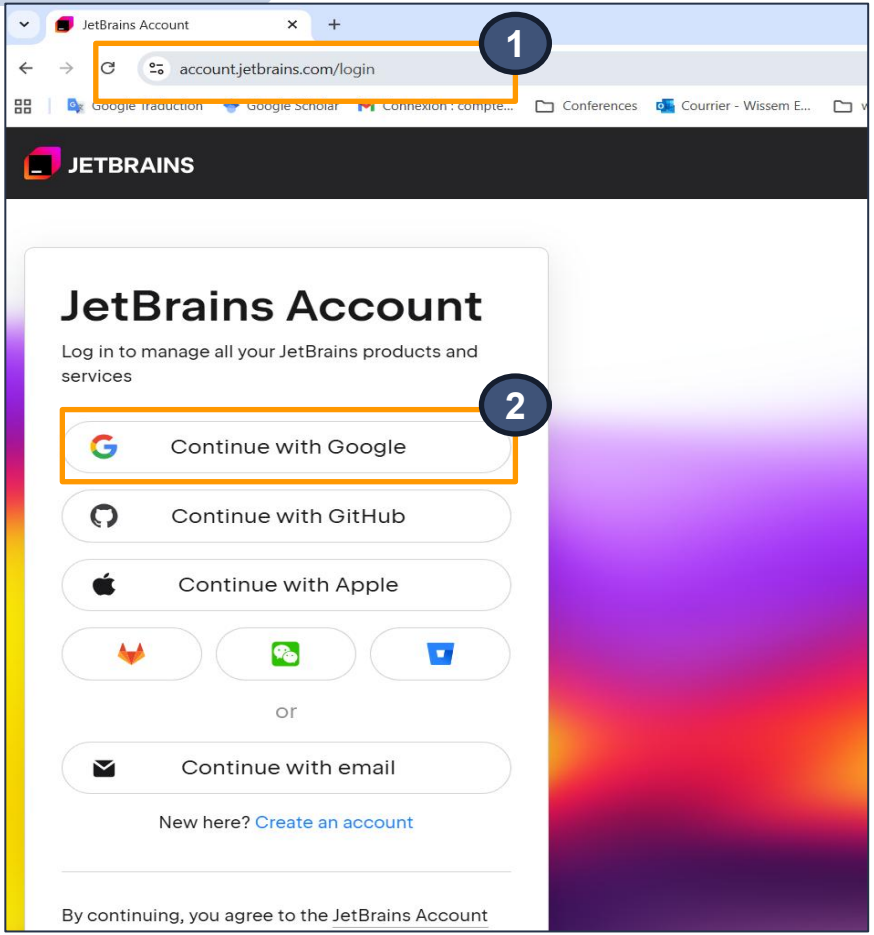
I.0. Prerequisite

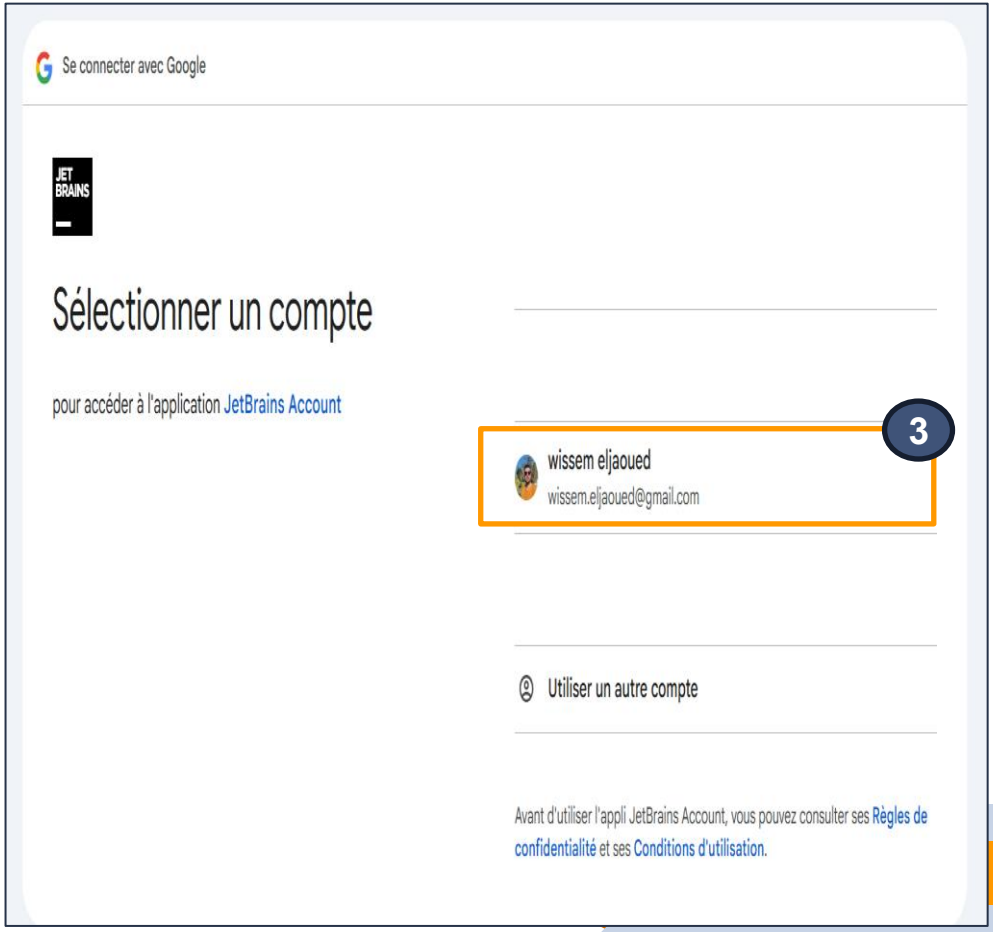
- WampServer or Xampp installed
- Add PHP as an environment variable
- IDE: PHPStorm (or other)

- 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





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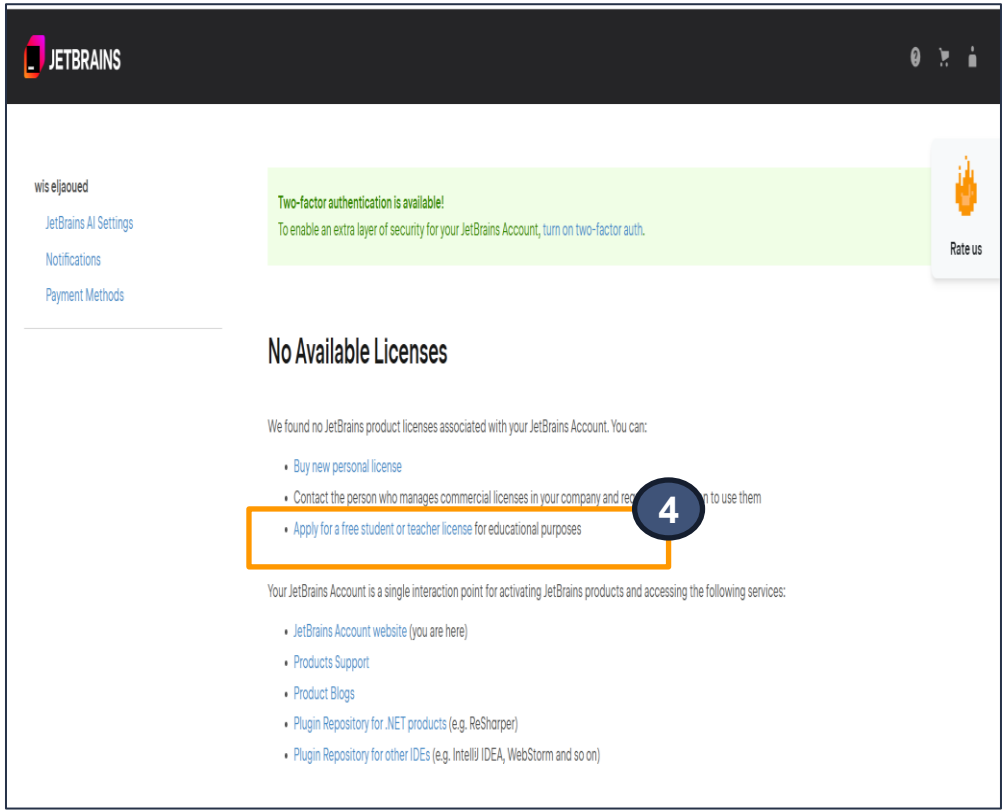
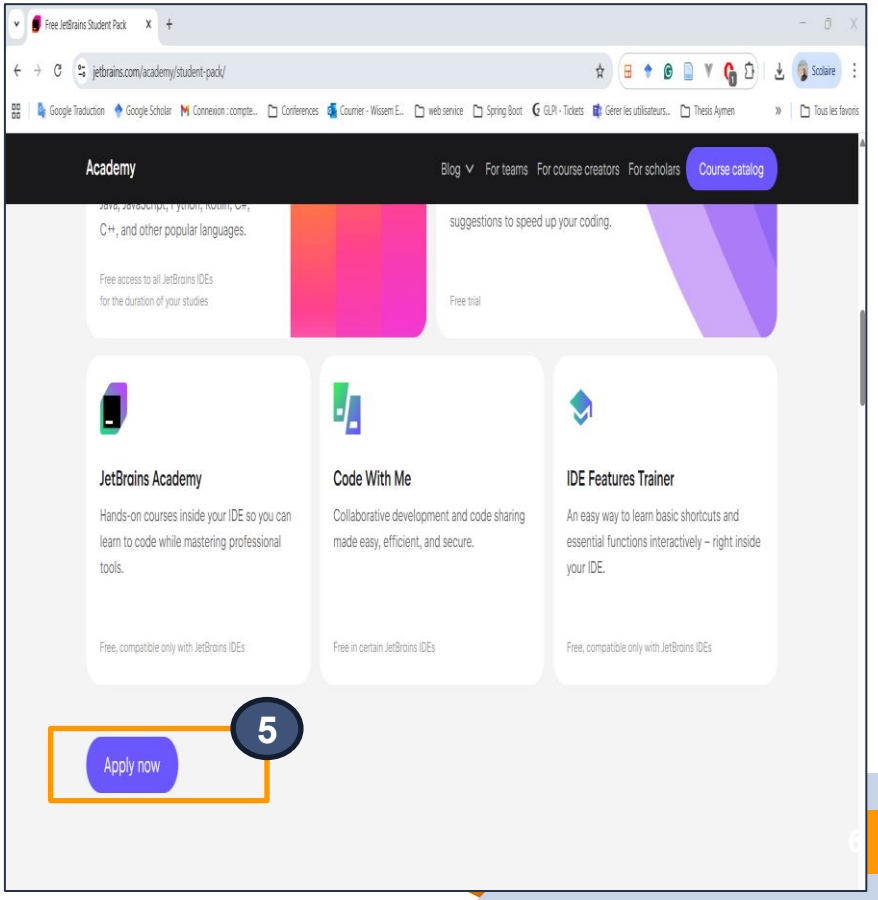
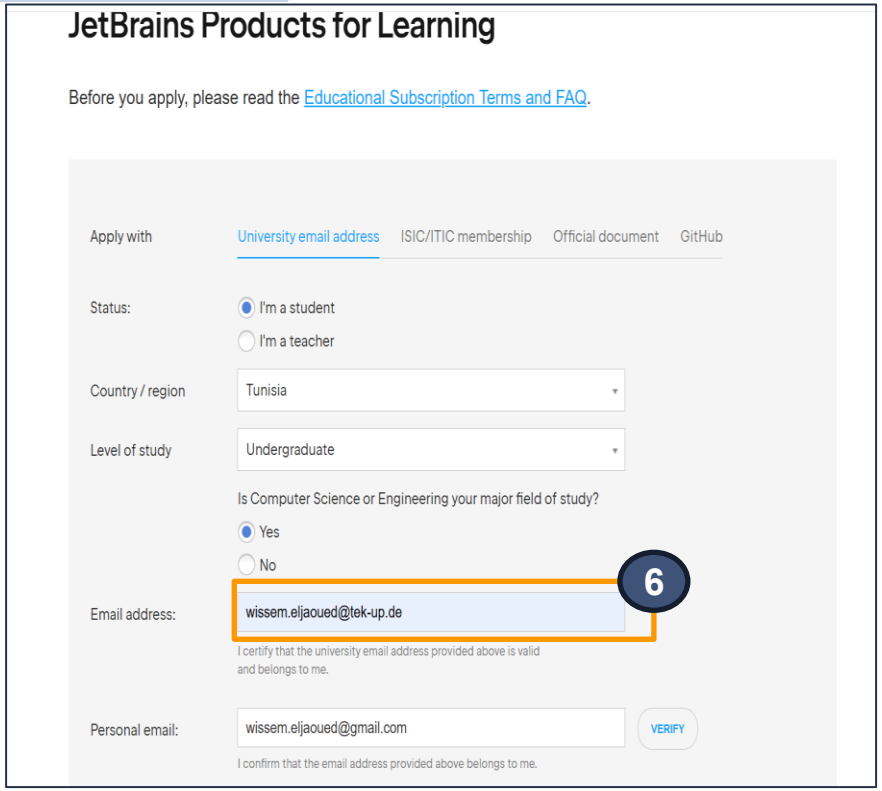
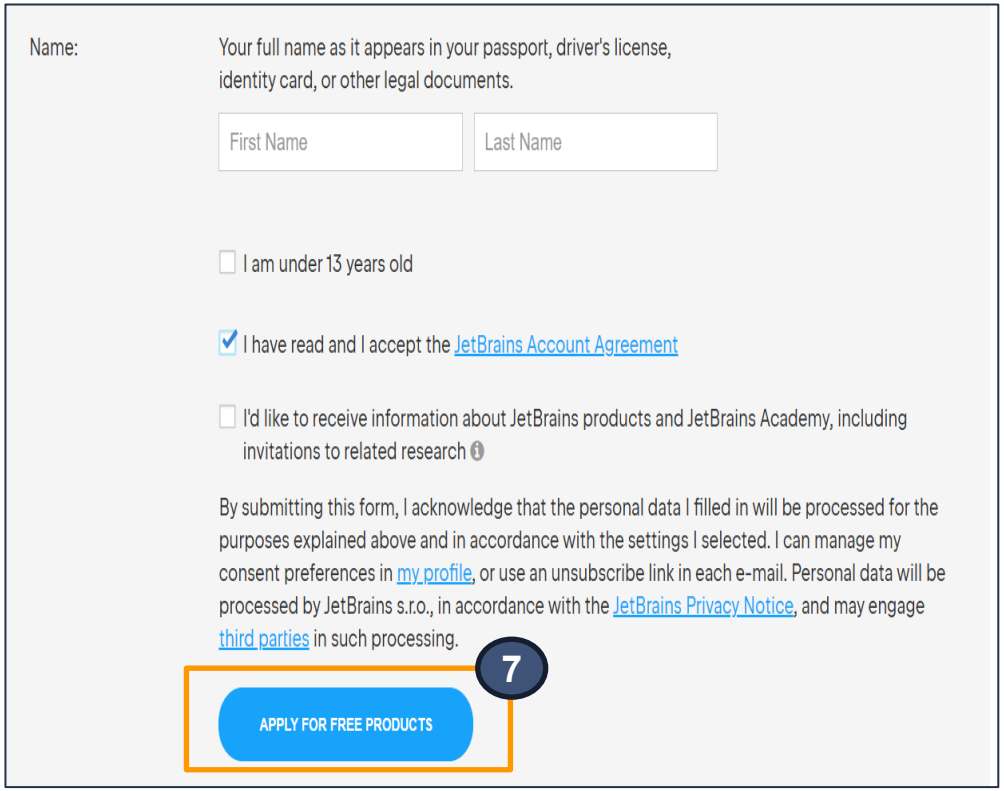






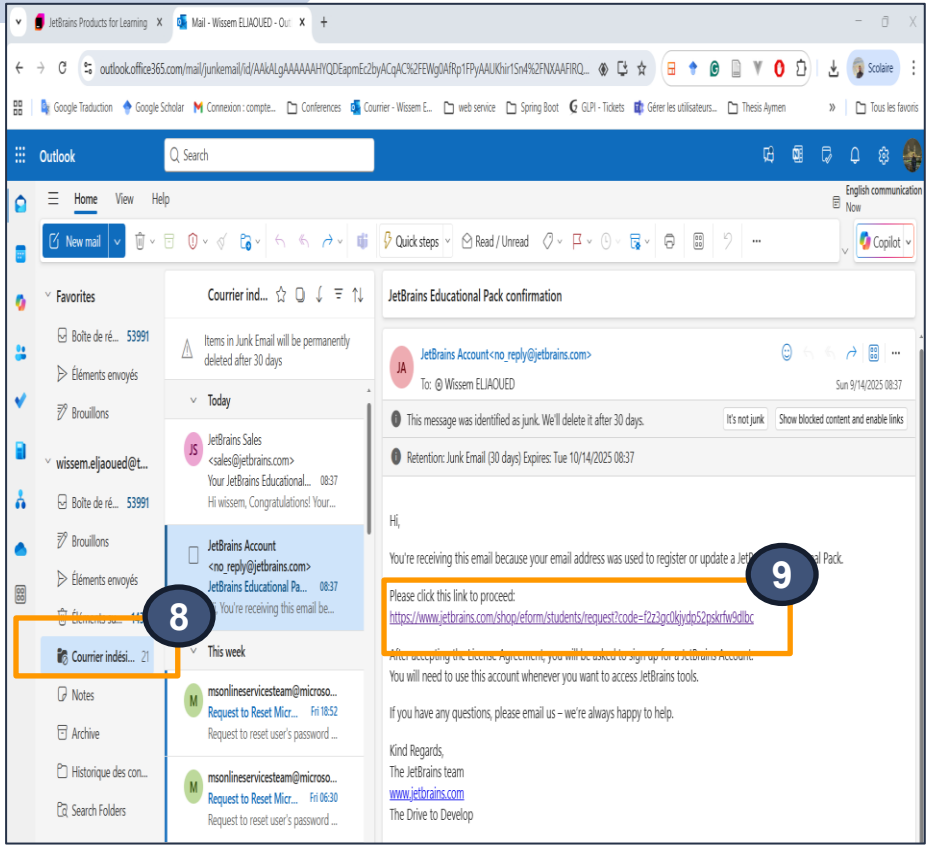


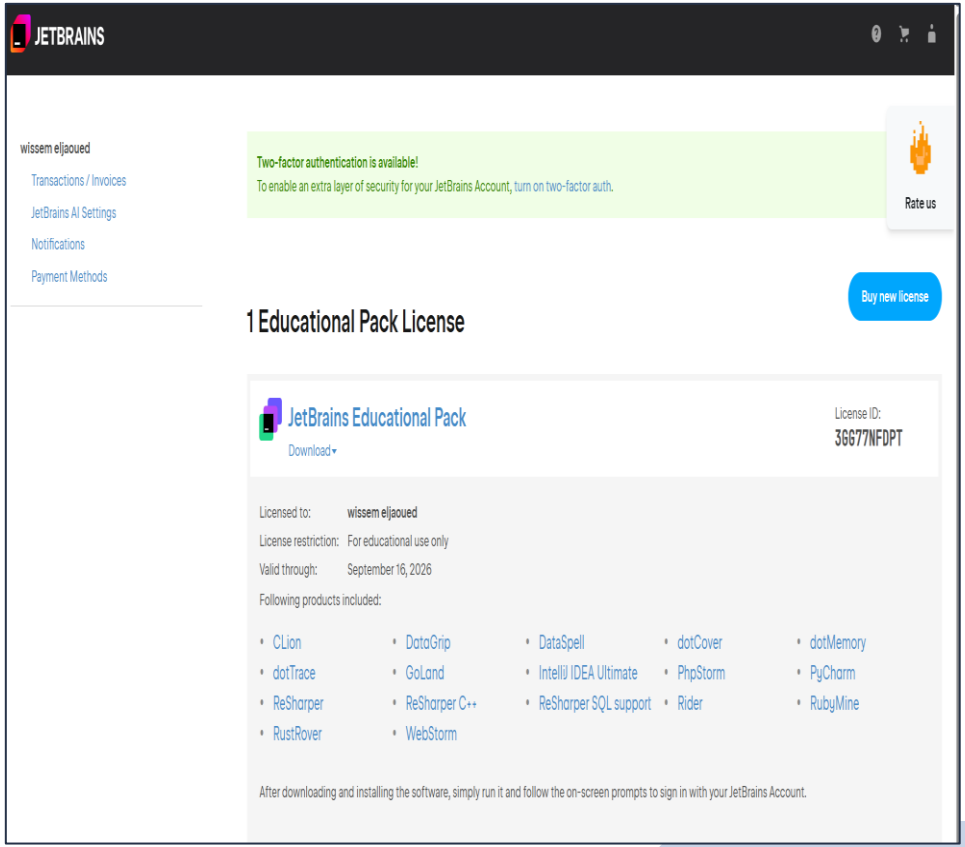
6 You must use an educational email (**tek-up.de**)

7 You will receive an email in the Junk section

I.0. Prerequisite

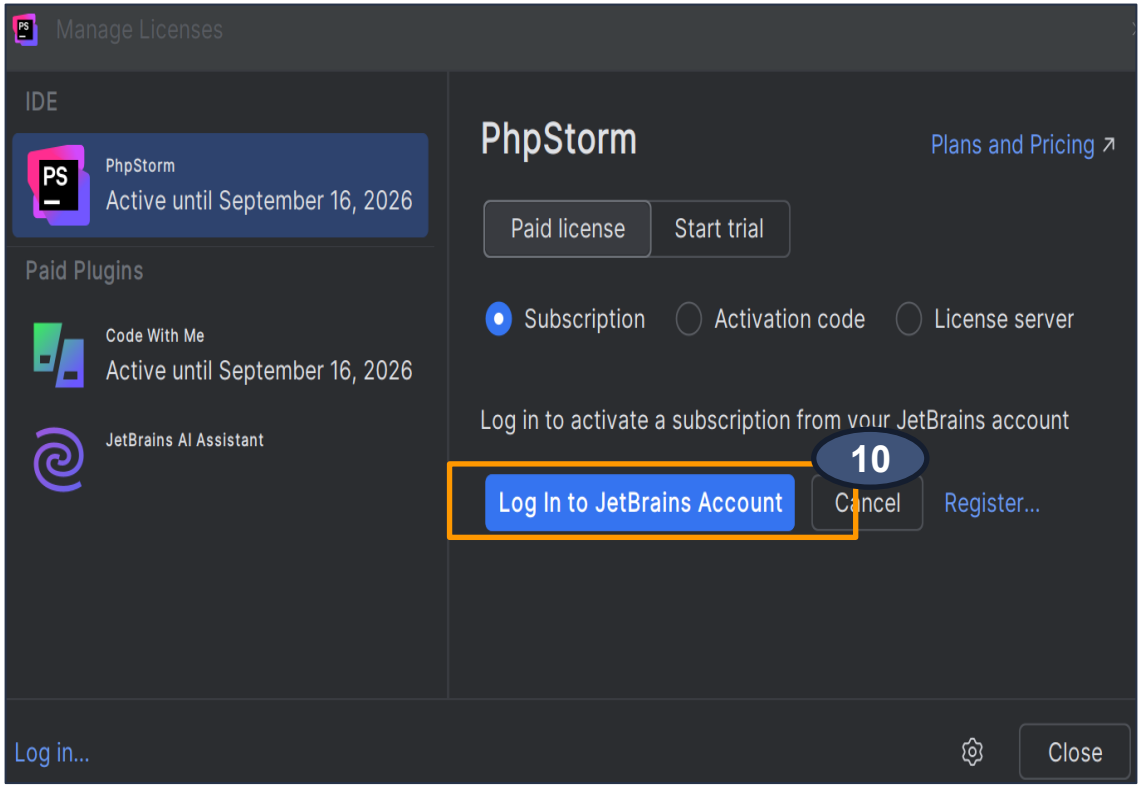
PHPStorm

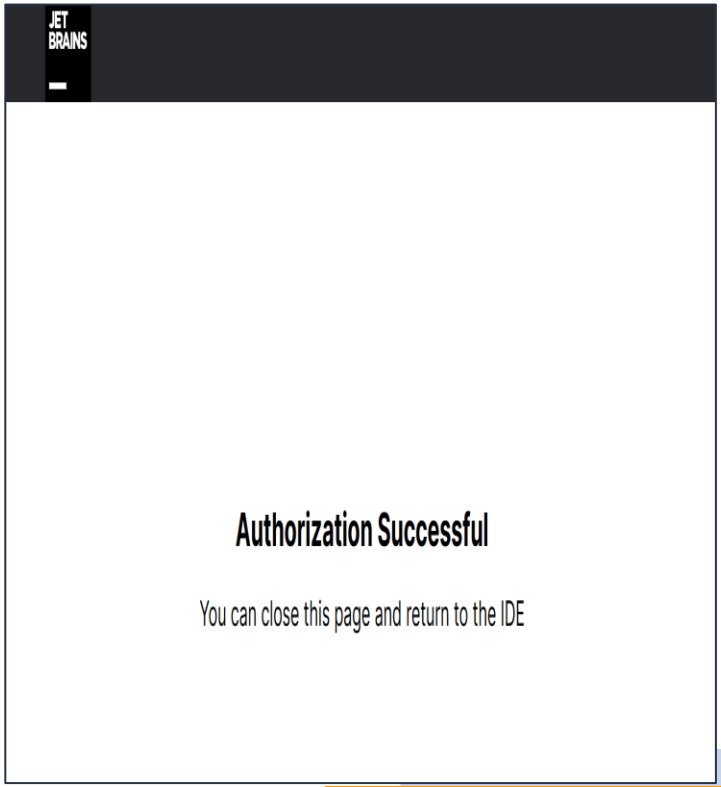




9 Open your Tek-up account with outlook office. Next, visit the link received, then open your jetbrains account again (using your google account)

Go to PHPStorm





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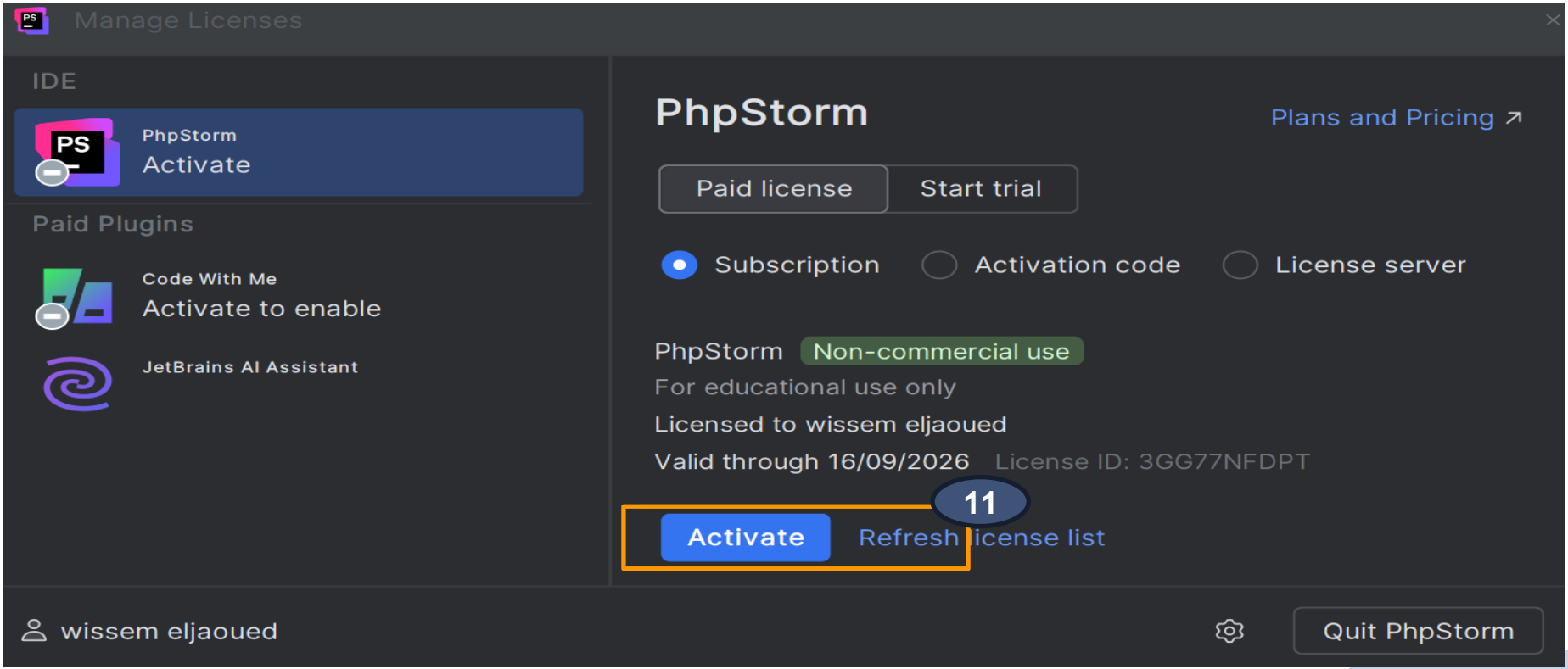

Manage Licenses
IDE
PhpStorm
Activate
Paid Plugins
Code With Me
Activate to enable
JetBrains AI Assistant
PhpStorm
Plans and Pricing
Paid license
Start trial
Subscription
Activation code
License server
PhpStorm
Non-commercial use
For educational use only
Licensed to wissem eljaoued
Valid through 16/09/2026
License ID: 3GG77NFDPT
11
Activate
Refresh license list
wissem eljaoued
Quit PhpStorm

Outline

I.0. Prerequisite

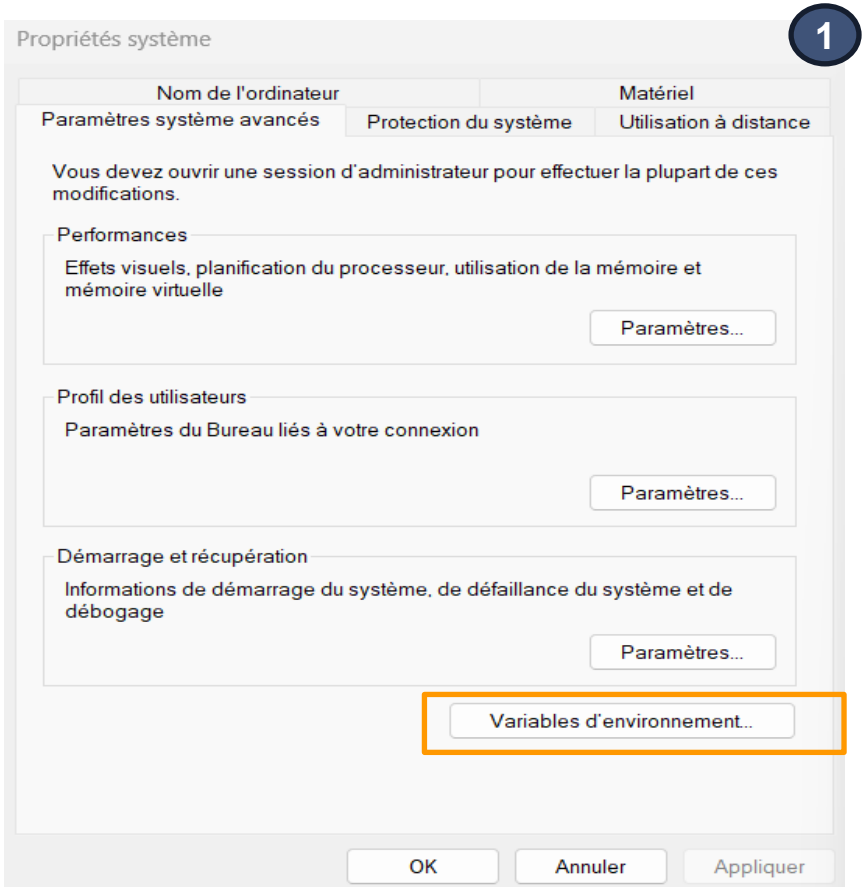
I.1. Environment Variable

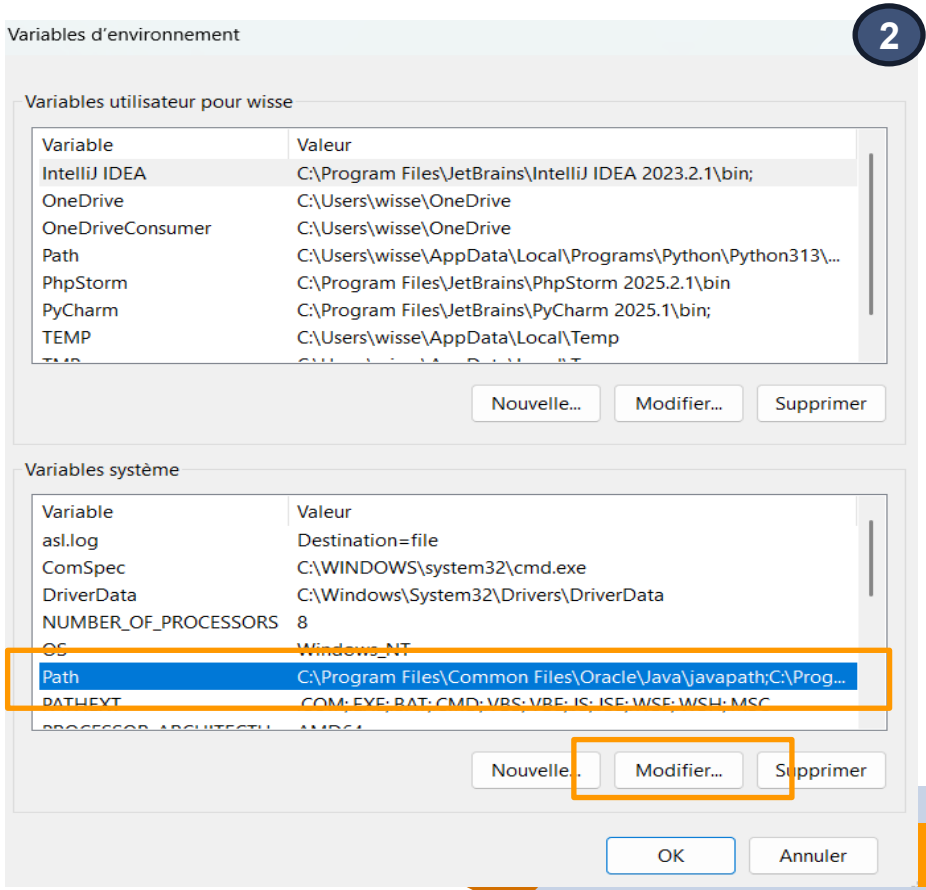
I.2. Creating a project

I.3. Project Configuration

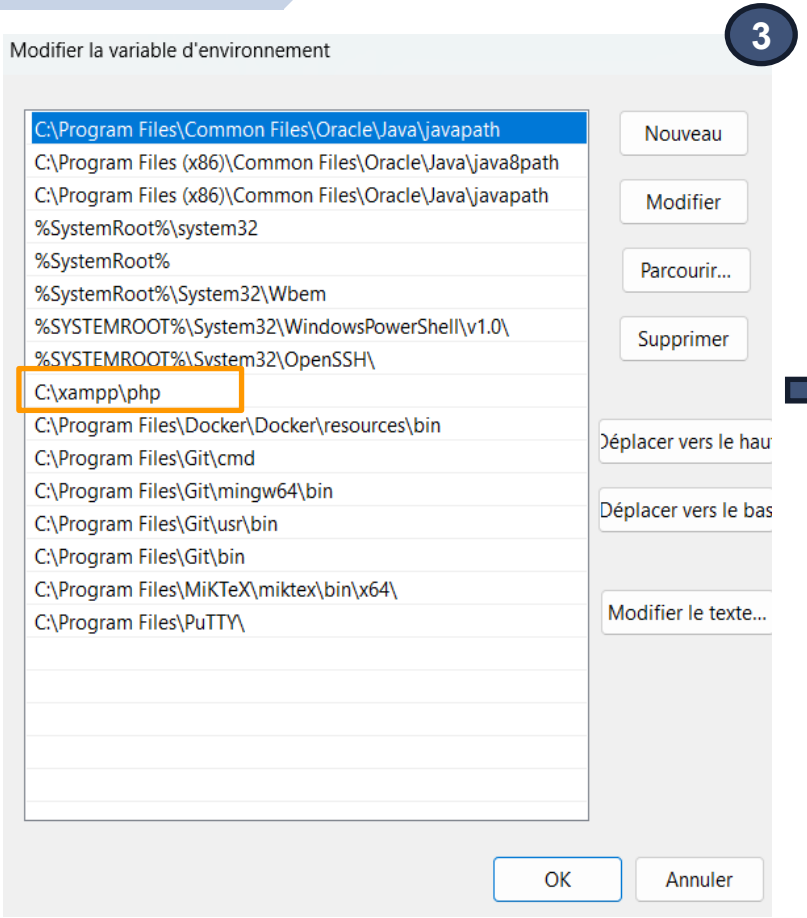
I.4. Project Execution

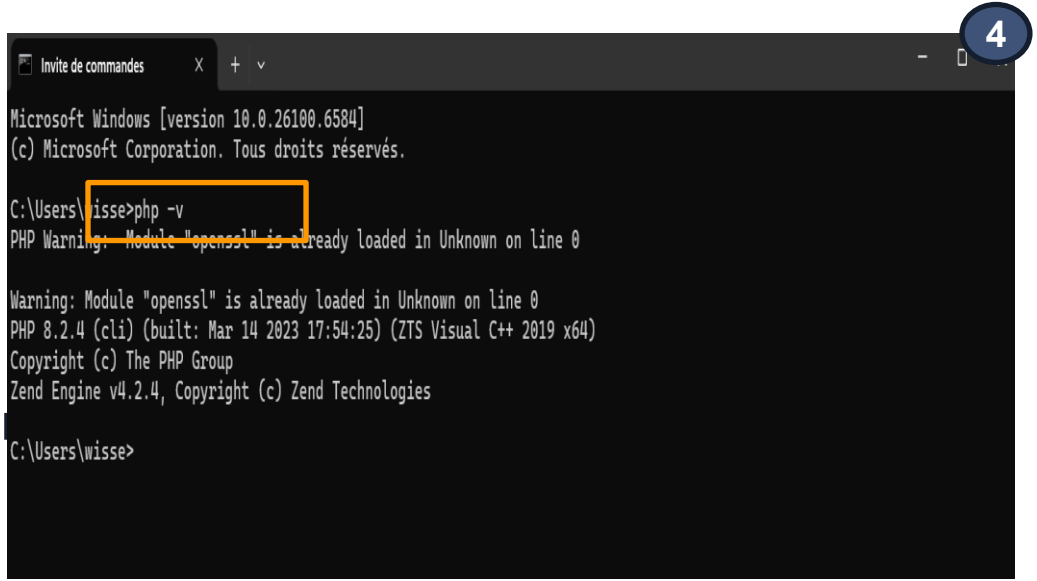
I.1. Environment Variable





I.1. Environment Variable





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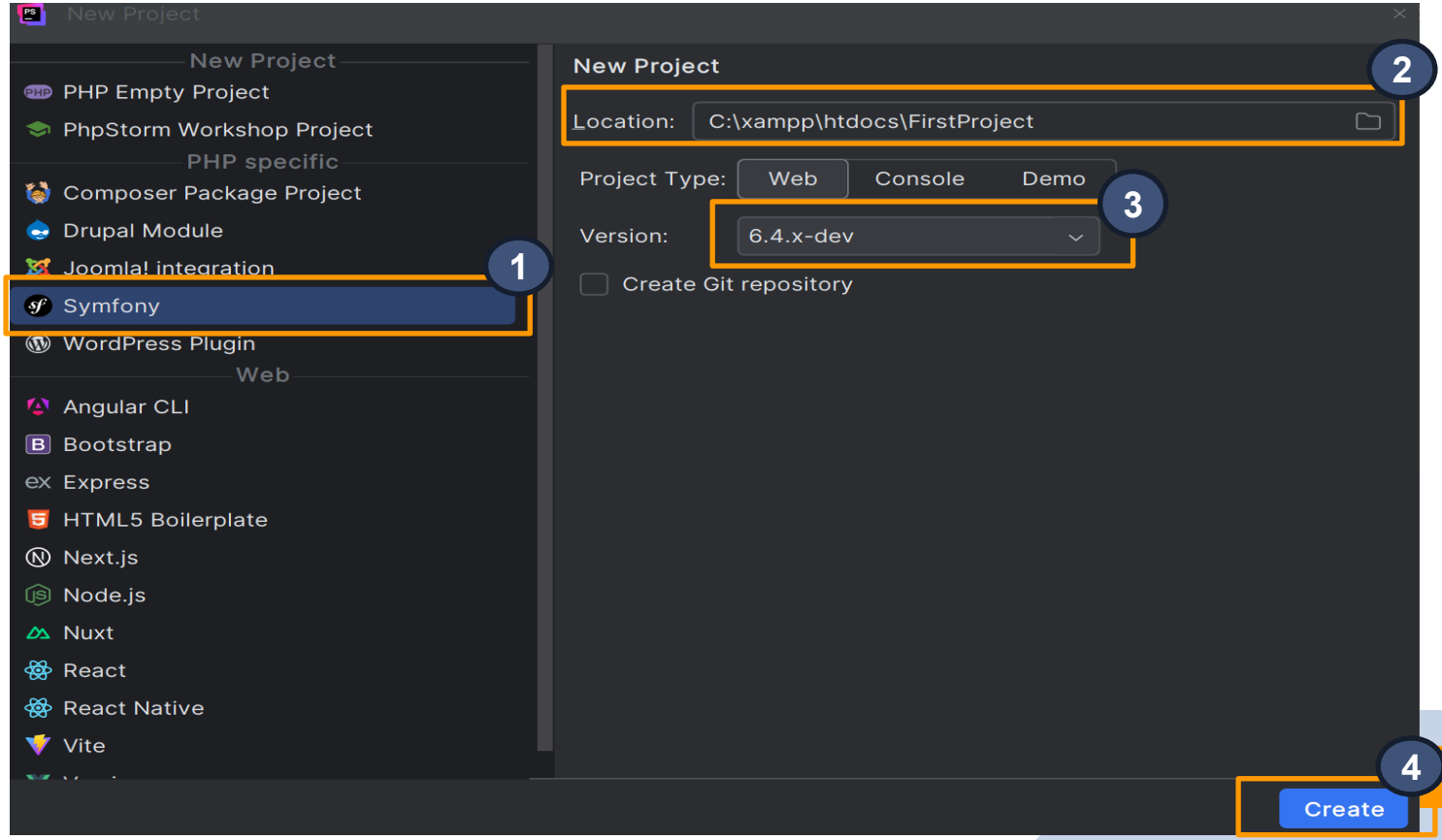
Method 1: Using PHPStorm (Symfony)

I.2. Creating a project

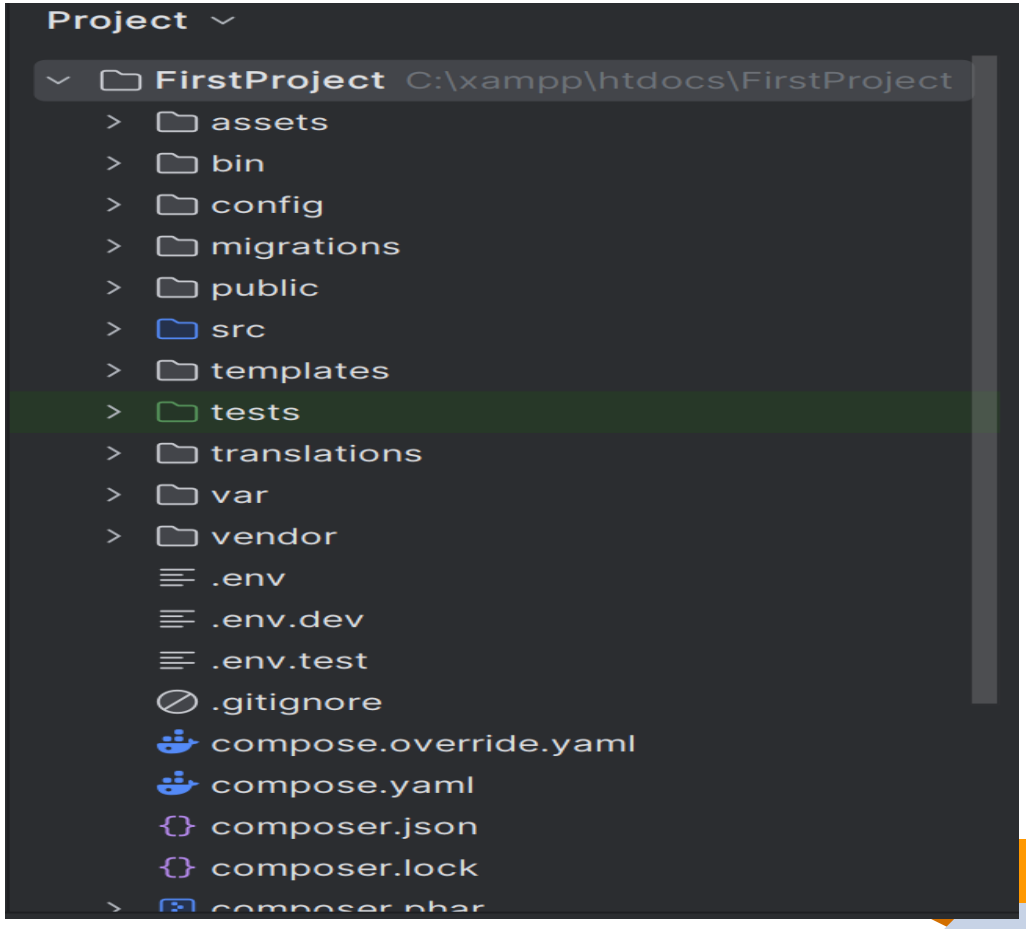
Method 1: Using PHPStorm

- 1- Open PHPStorm
- 2- New Project



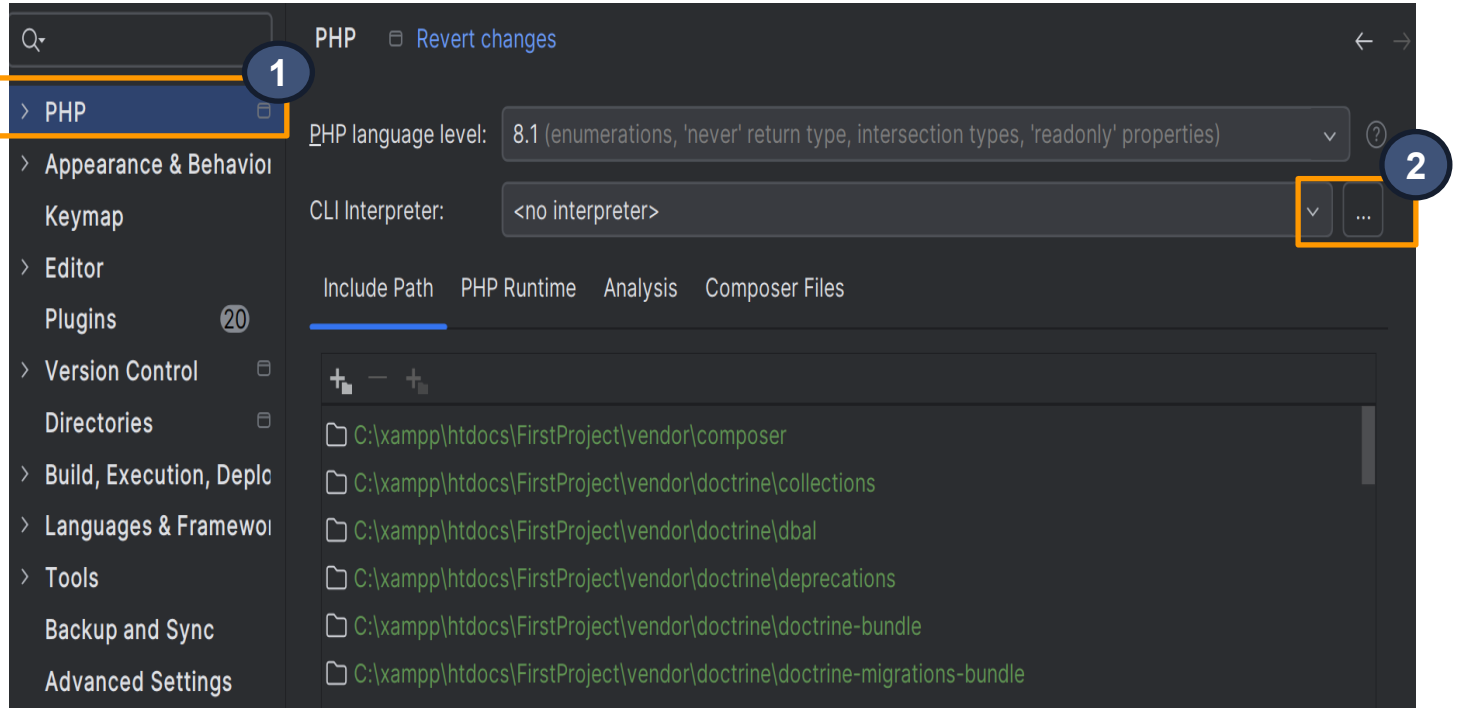
Method 1: Using PHPStorm

- Project Structure



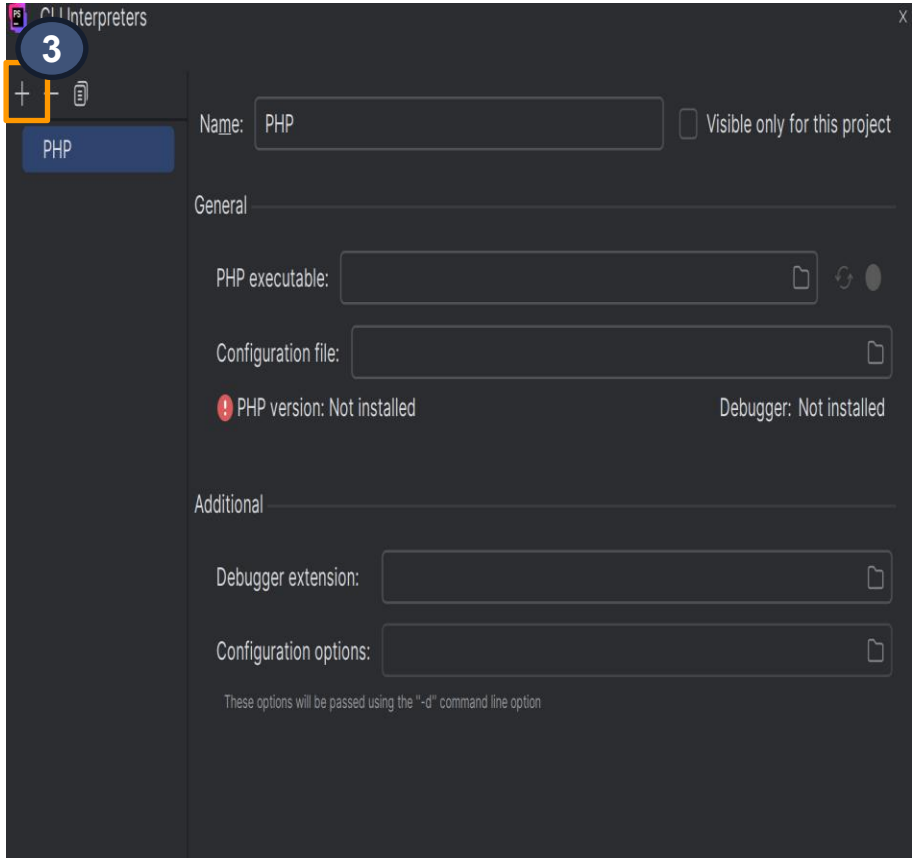
Method 1: Using PHPStorm

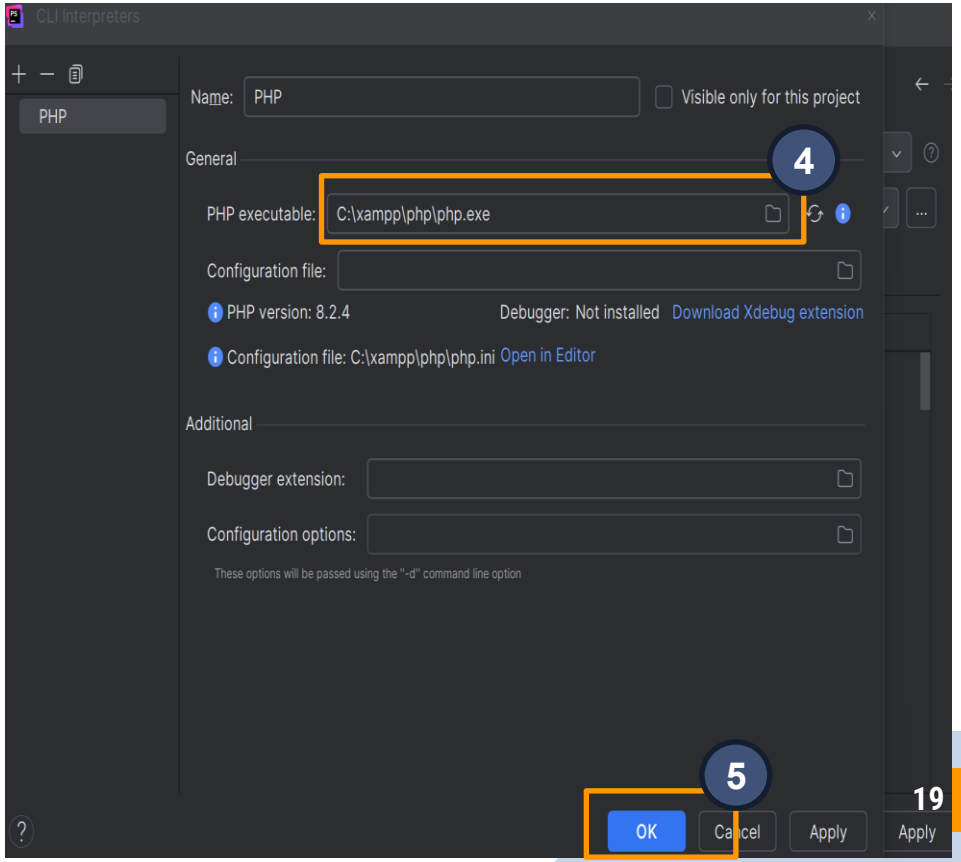
- 3- Open Settings
- 4- Add PHP



I.2. Creating a project

Method 1: Using PHPStorm

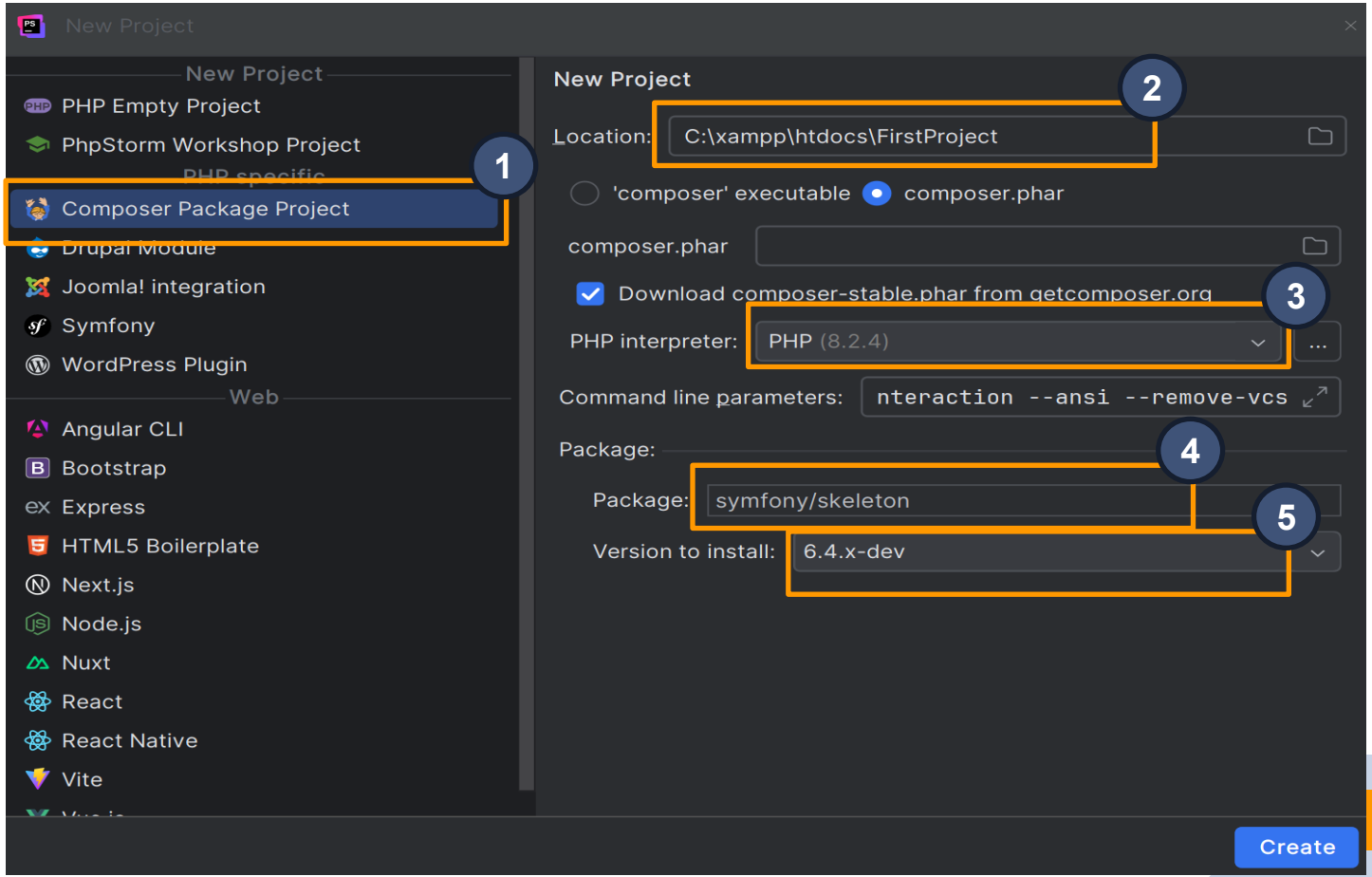




Method 2: Using Composer

I.2. Creating a project

Method 2: Using Composer



Method 3: Using Symfony Command Line Interface (CLI)

Method 3: Using Symfony CLI

❖ What is Symfony CLI ?

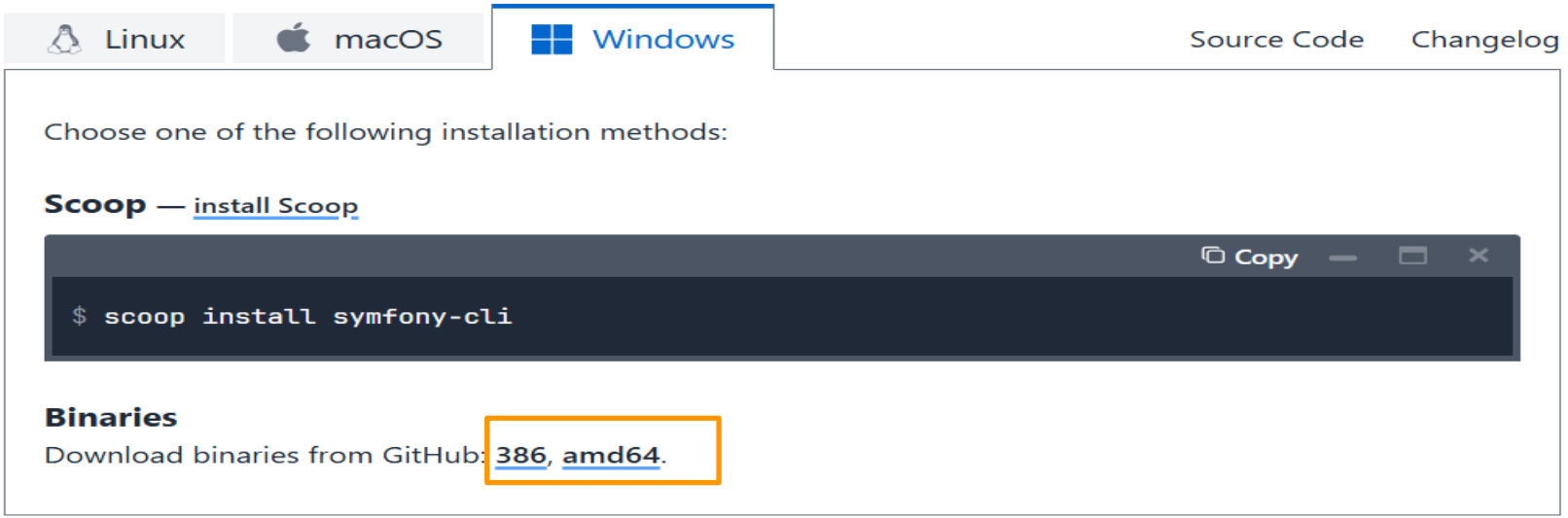
The Symfony CLI is a command-line tool that helps you:

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

Method 3: Using Symfony CLI

❖ Symfony CLI Installation

- 1- Download composer 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.



Method 3: Using Symfony CLI

❖ Verify Symfony CLI Installation

Run : **symfony -v**

```
C:\Users\wisse>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
```

Method 3: Using Symfony CLI

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

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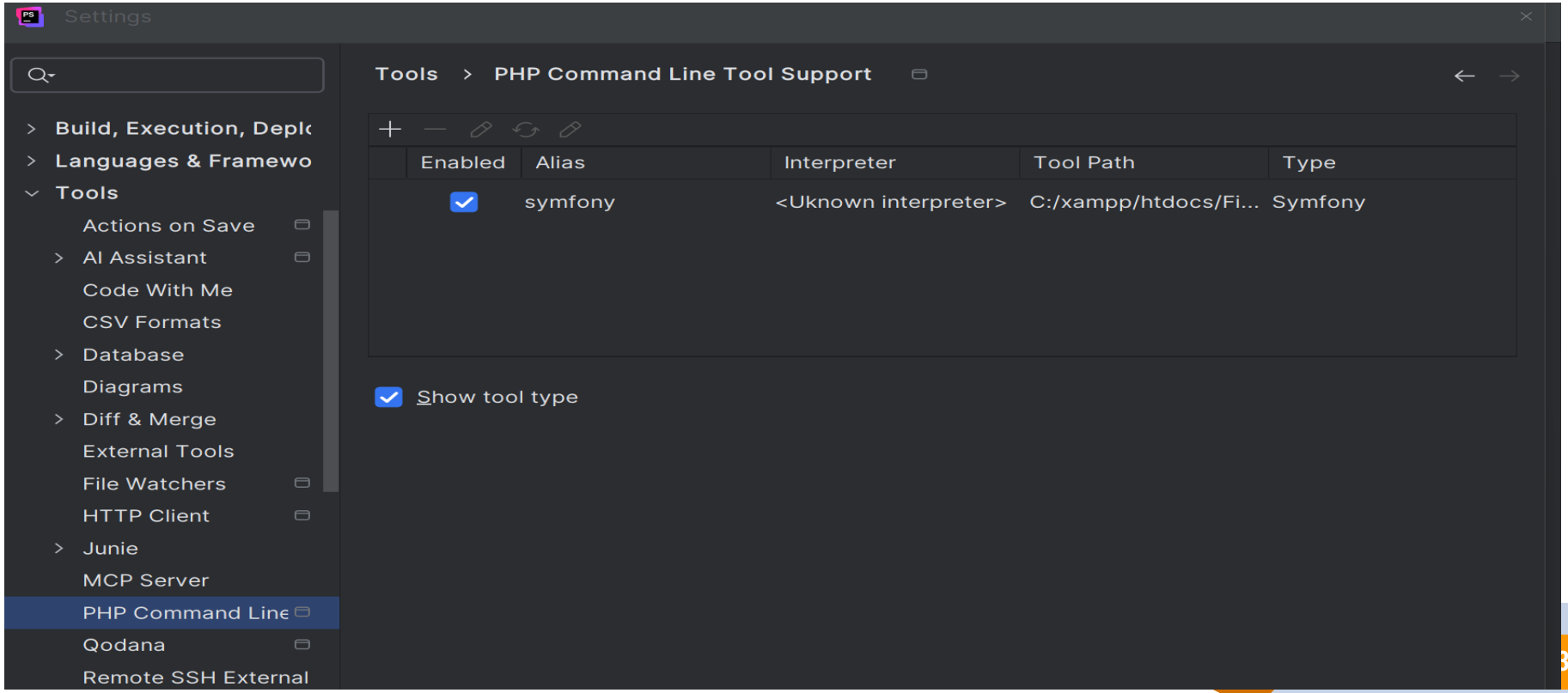
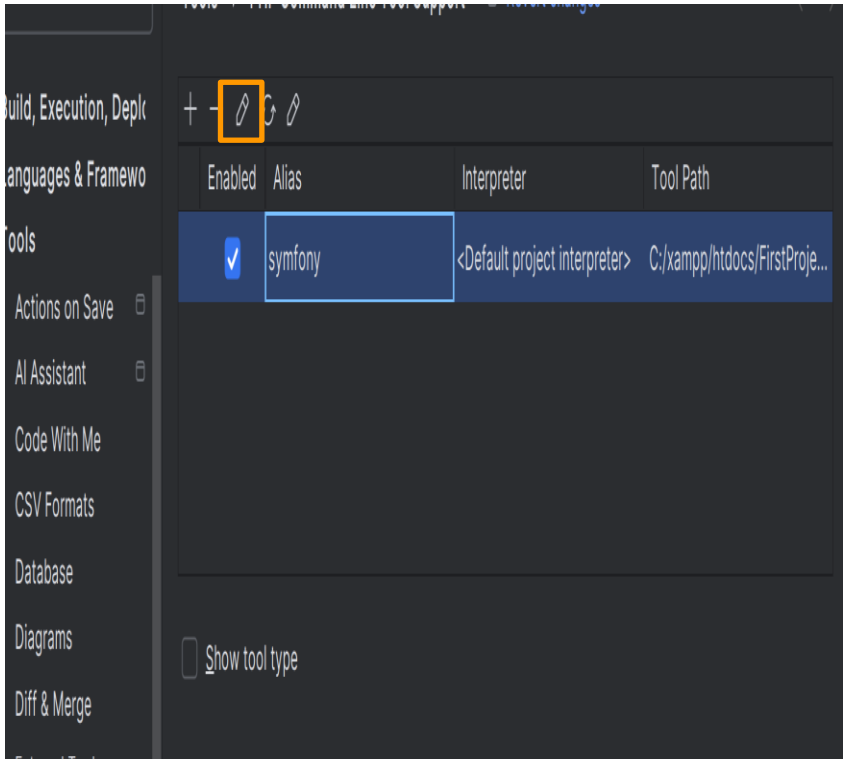
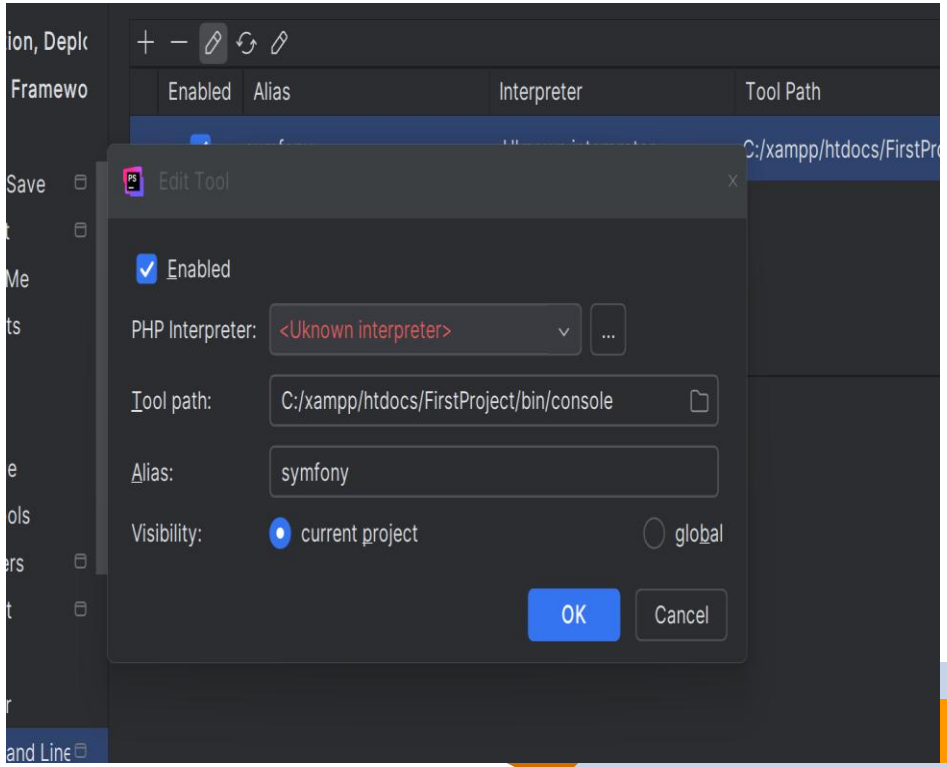
- In this part we will see how to use the PHPStorm console that we will use it in our Symfony projects
- Symfony includes a utility that allows us to type command lines that we will use in all Symfony workbenches.
- In PHPStorm we have to configure the Line Tools Console command (which is displayed by 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 Commande Line Tool Support**

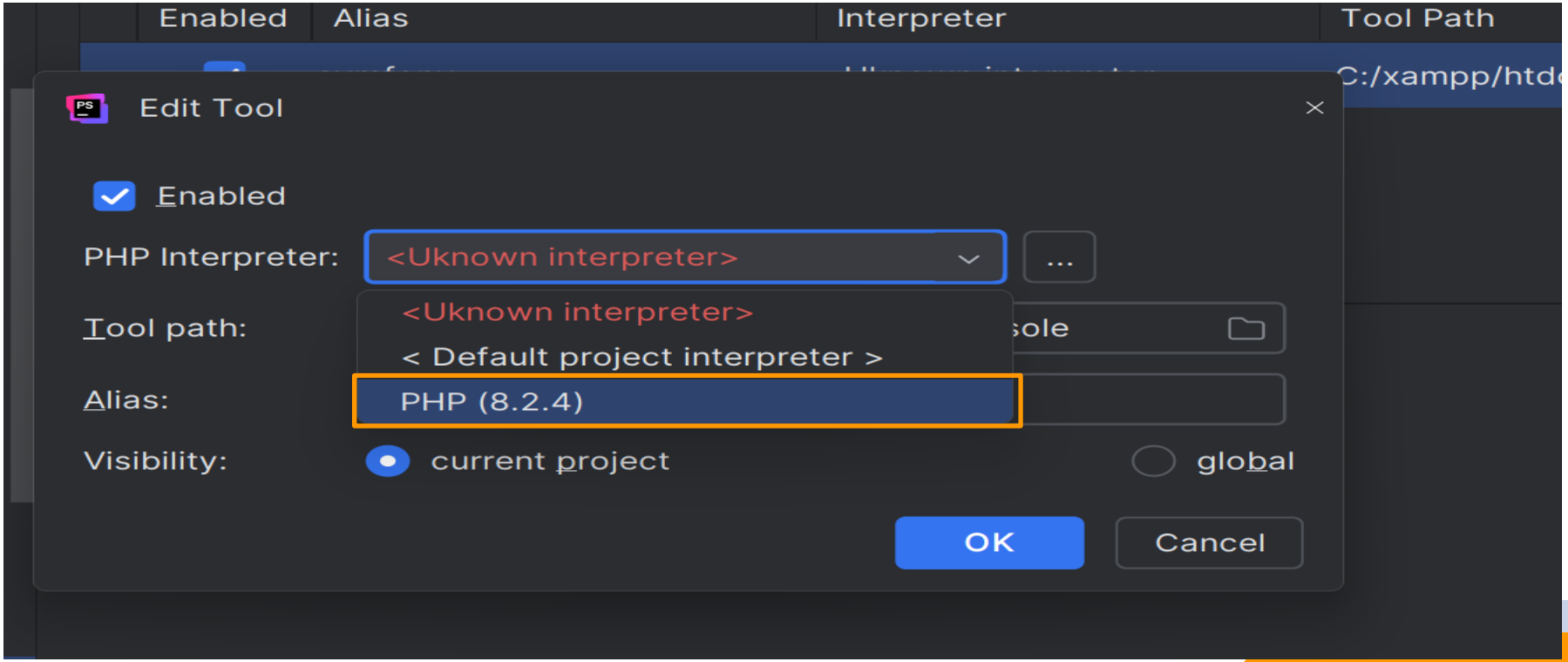


2. You need to specify the PHP interpreter for Symfony, so press the edit button

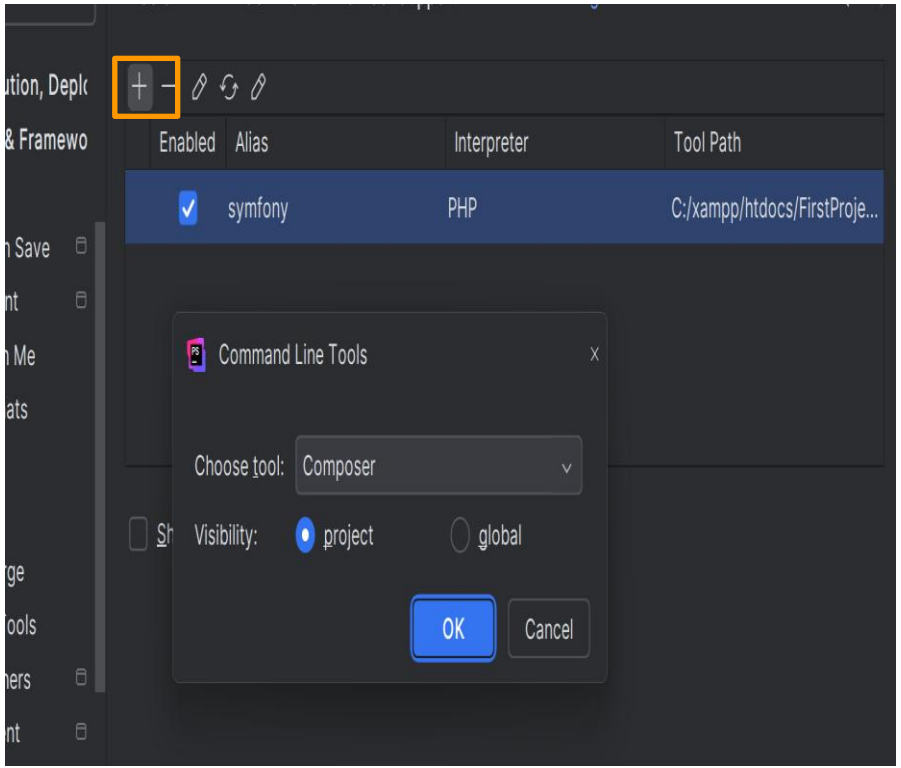


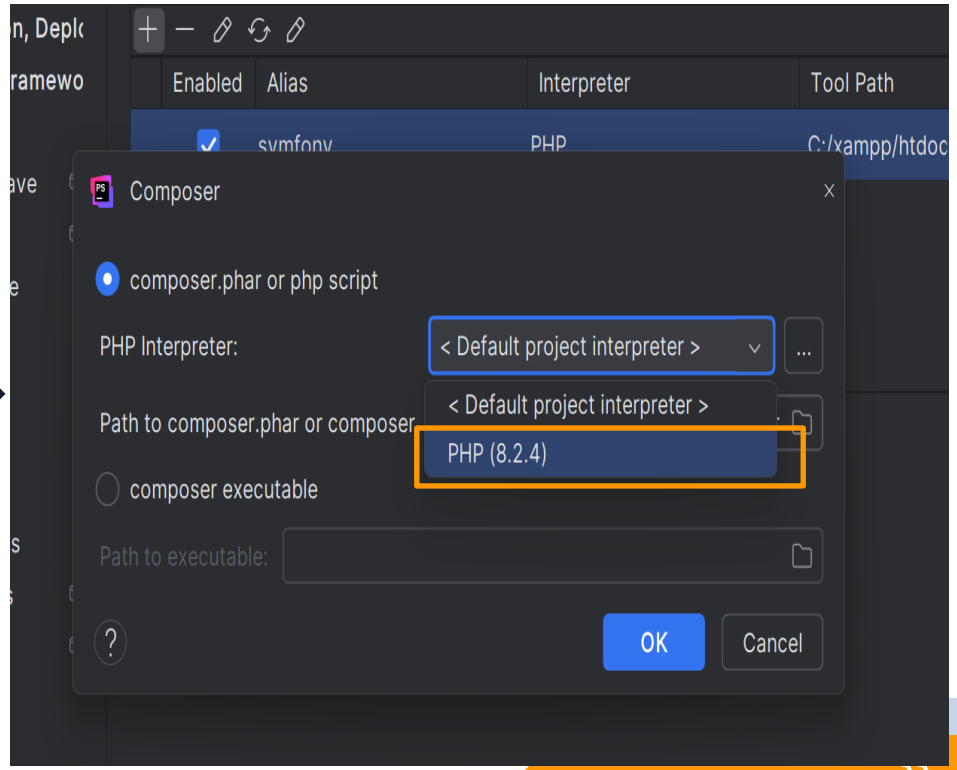


3. Select the PHP interpreter



4. Add *Composer*





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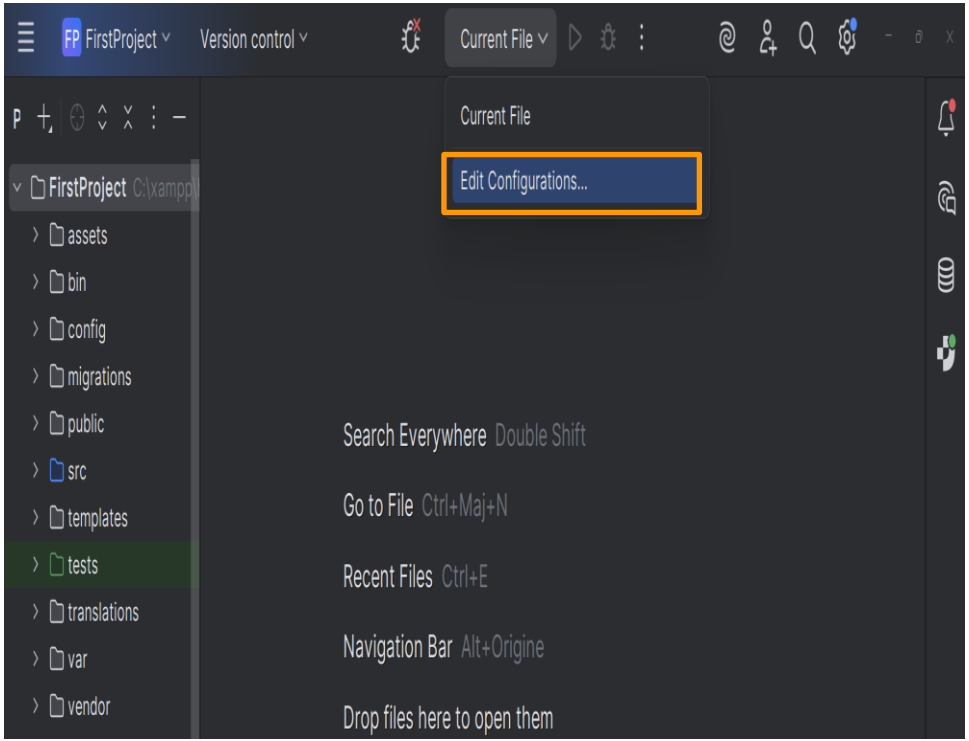
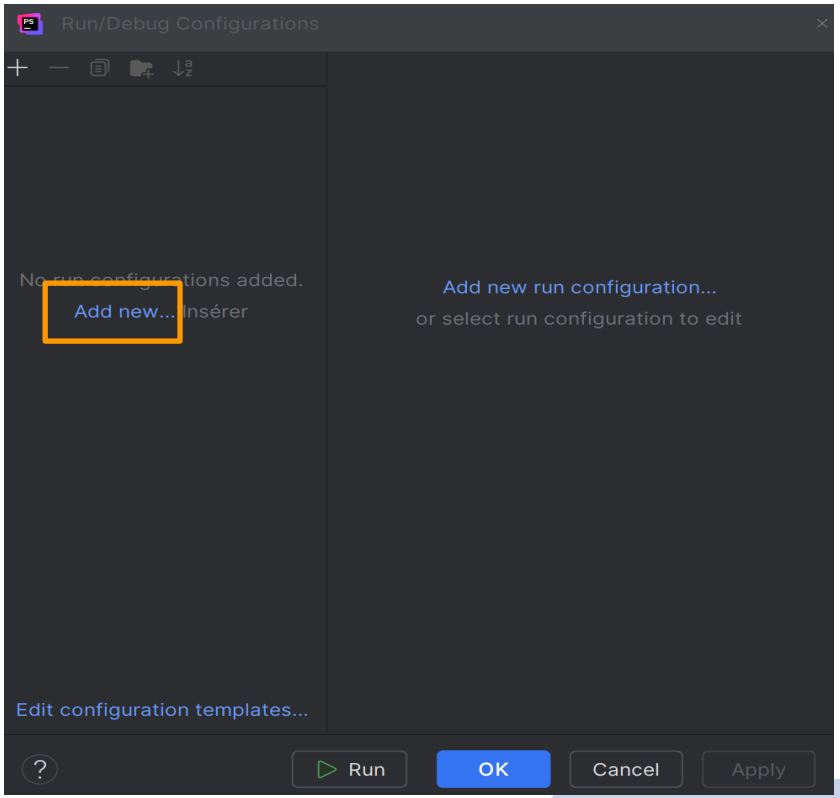
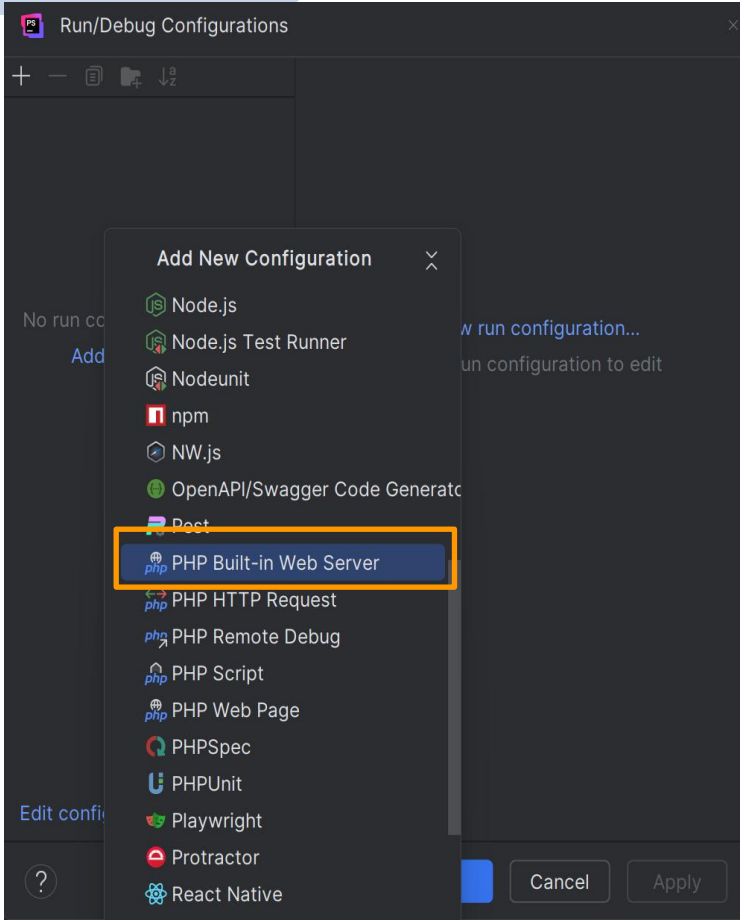
Adding Run Config

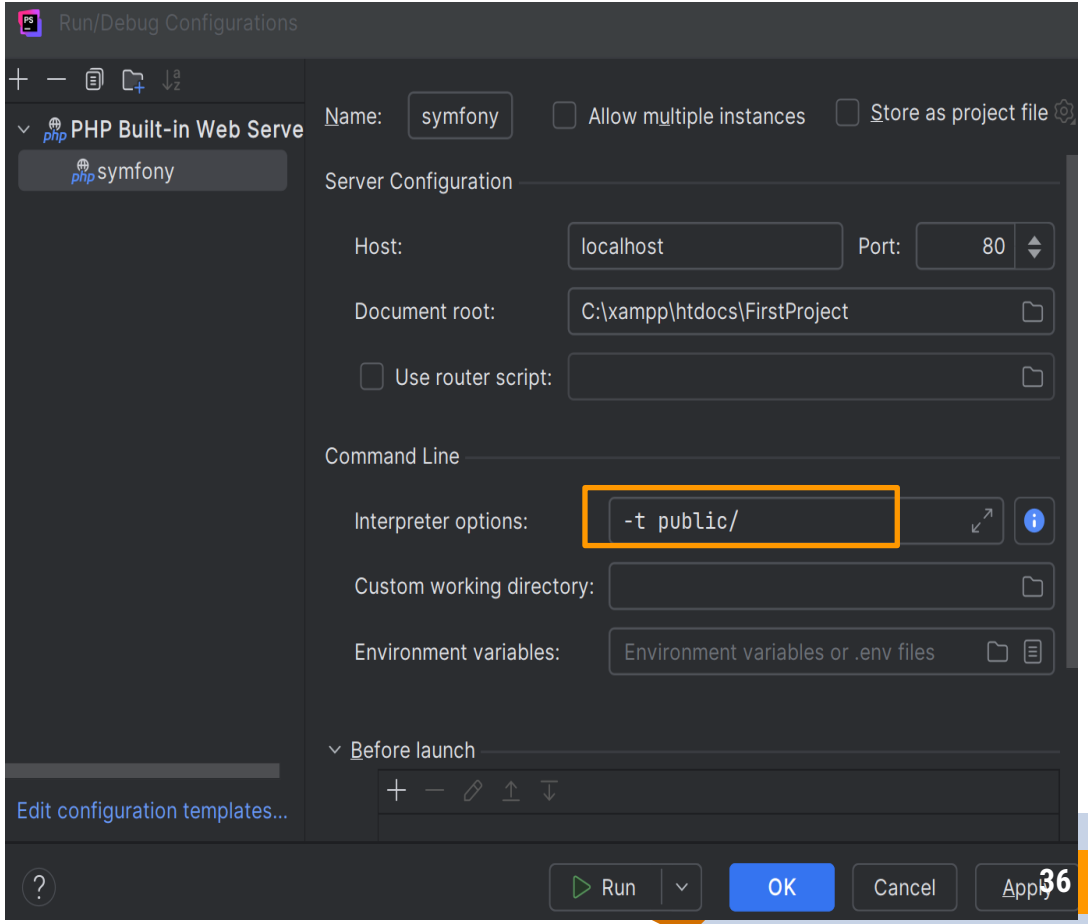




I.4. Project execution

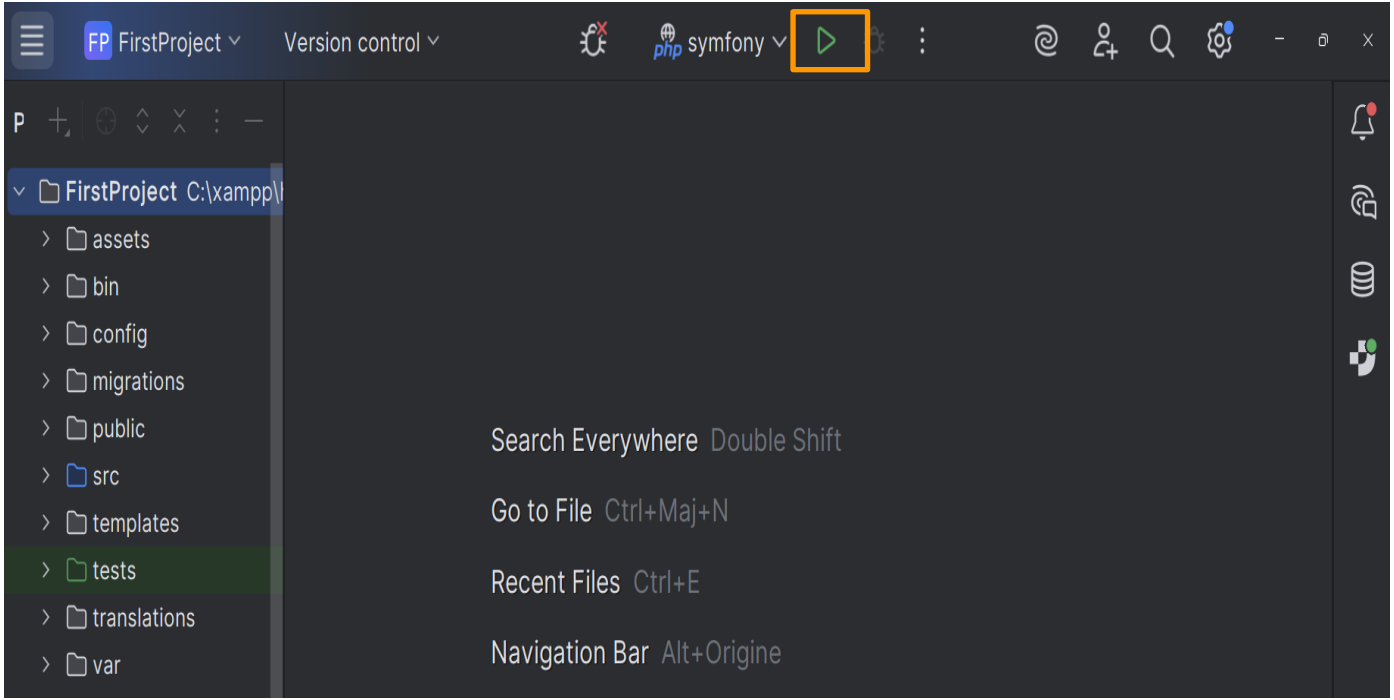
Adding Run Config





I.4. Project execution

Run



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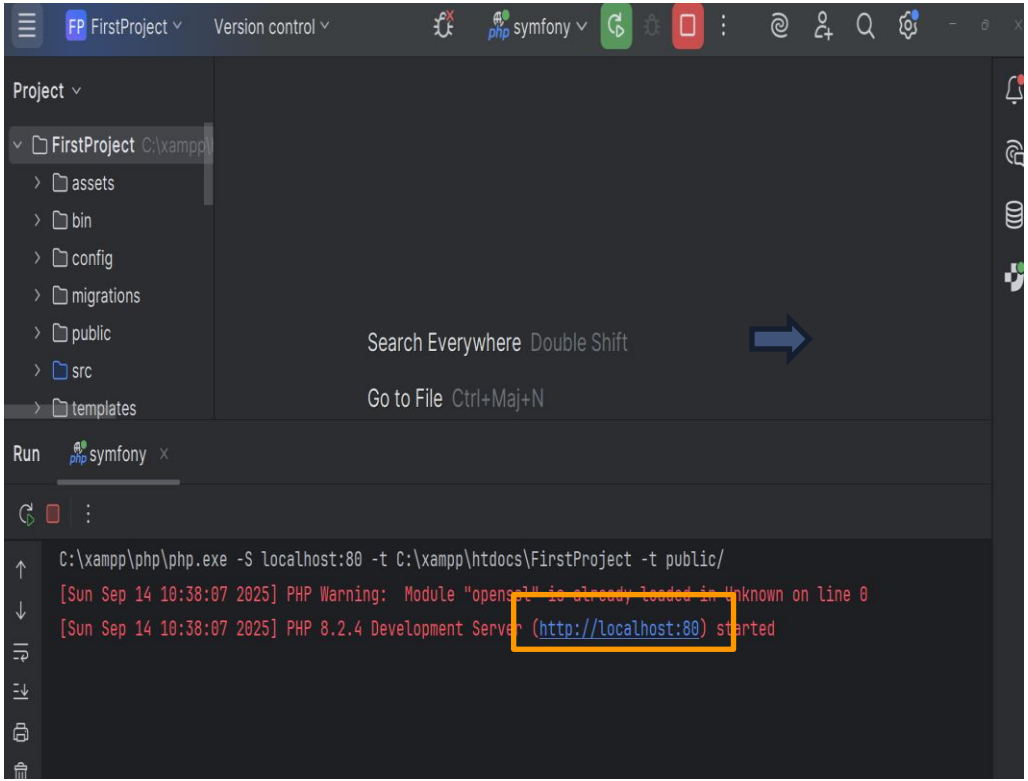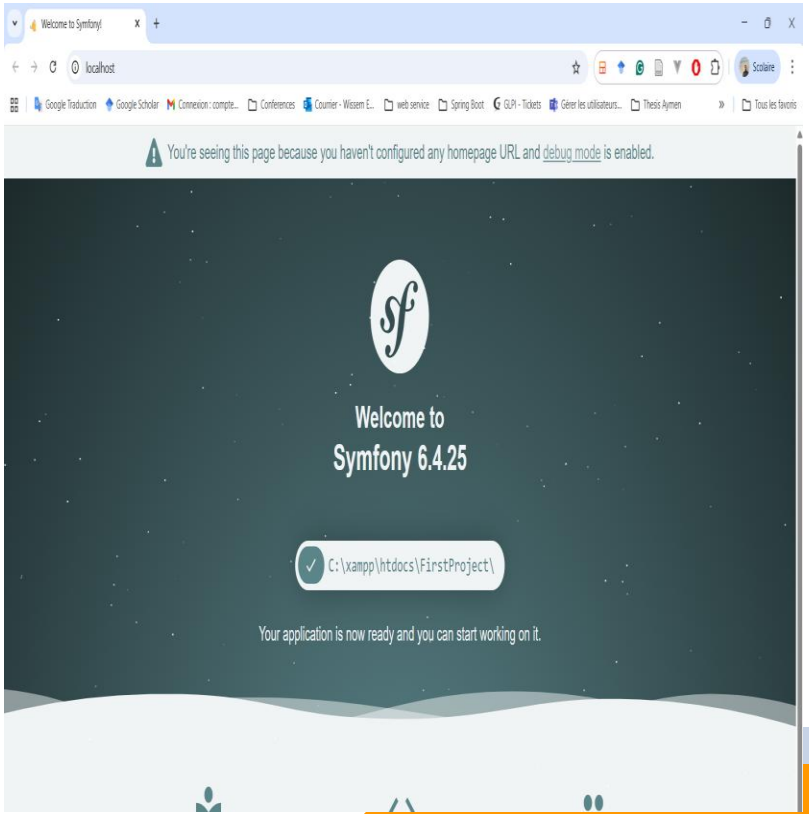
Run