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Setting Up PHP for Selenium

Welcome to tutorial 5, In this tutorial, you'll learn how to set up a PHP environment for Selenium testing. We'll guide you through installing the necessary tools, configuring your system, and running Selenium tests with PHP and further testing on.

0. Prerequisites

Before you begin, please install Google Chrome installed on your system, available here: https://support.google.com/chrome/answer/95346?hl=en&co=GENIE.Platform%3DDesktop

1. Setting Up

1.1 Install XAMPP and PHP

- **Download & Install XAMPP**

  - Visit the XAMPP website and download the latest version, which includes PHP and Apache.

   - https://www.apachefriends.org/download.html

  - Run the installer and follow the installation prompts.

1.2 Add PHP to System Path

- **(Windows) Modify System Environment Variables**

  - Navigate to Control Panel → System and Security → System → Advanced system settings.
  - Click on Environment Variables.
 - In the System Variables section, find and select the Path variable, then click Edit.
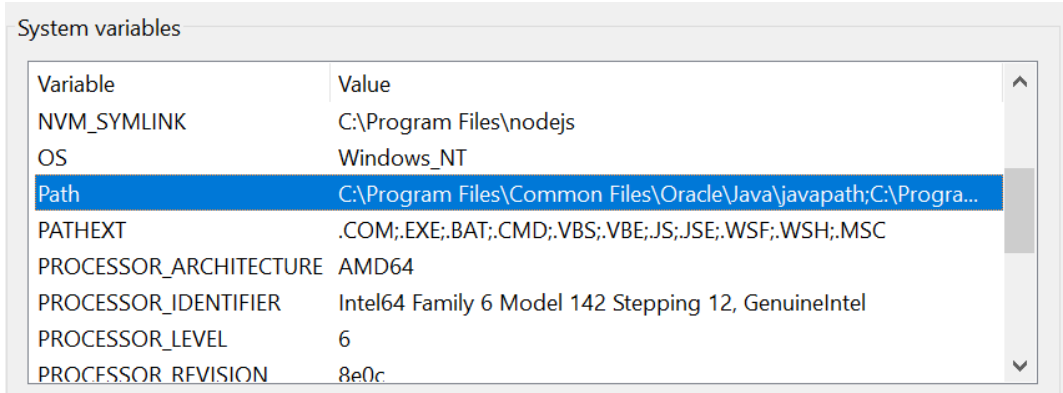
- o Add the directory path to your PHP from XAMPP installation (e.g., C:\xampp\php) – check what the specific directory is on your computer
  - Ensure the directory path to your PHP installation is placed higher/at the top of the PATH hierarchy to ensure it is recognized
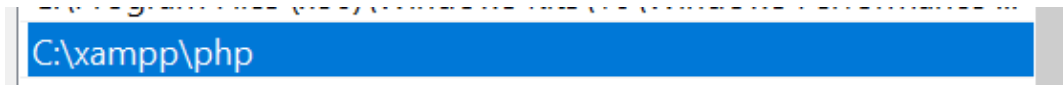
- o Click ok to save changes, then restart your computer
- (For macOS Users): Run the following command based on your shell type to set up the PHP PATH correctly:
  - o For zsh users:
    - ```
      echo 'export
      PATH=/Applications/XAMPP/xamppfiles/bin:$PATH'
      >> ~/.zshrc
      ```
    - ```
      source ~/.zshrc
      ```
  - o For bash users:
    - ```
      echo 'export
      PATH=/Applications/XAMPP/xamppfiles/bin:$PATH'
      >> ~/.bash_profile
      ```
    - ```
      source ~/.bash_profile
      ```
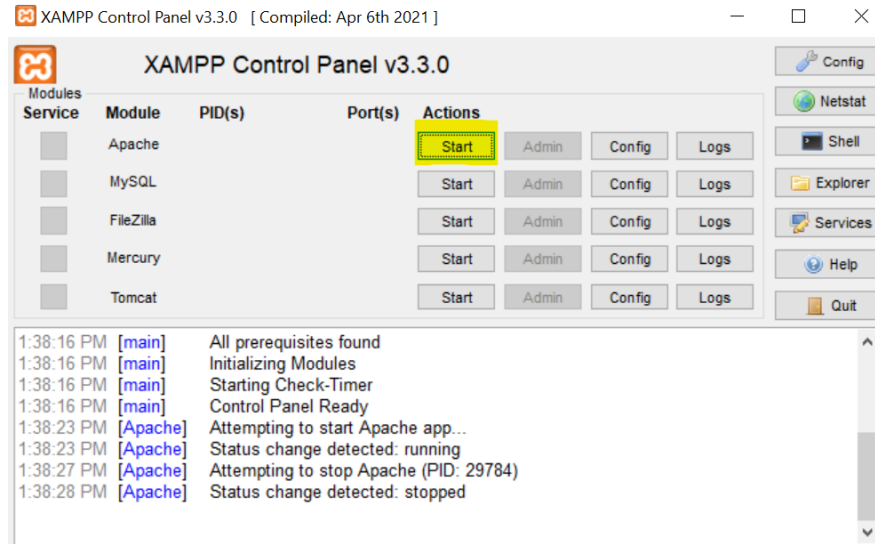
1.3 Start Apache Server

- **Launch Apache**
  - o Open the XAMPP Control Panel.
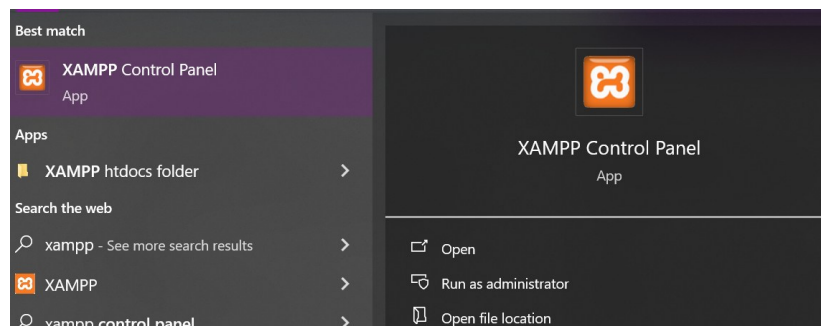
  - o Click the Start button next to Apache to launch the server.

2. Installing Additional Tools

2.1 Install Composer
- **Download Composer**
  - o Visit the Composer website, download the installer and follow the installation instructions
    - ▪ https://getcomposer.org/download/

2.2 Install Selenium Server & ChromeDriver
- **Download Files**
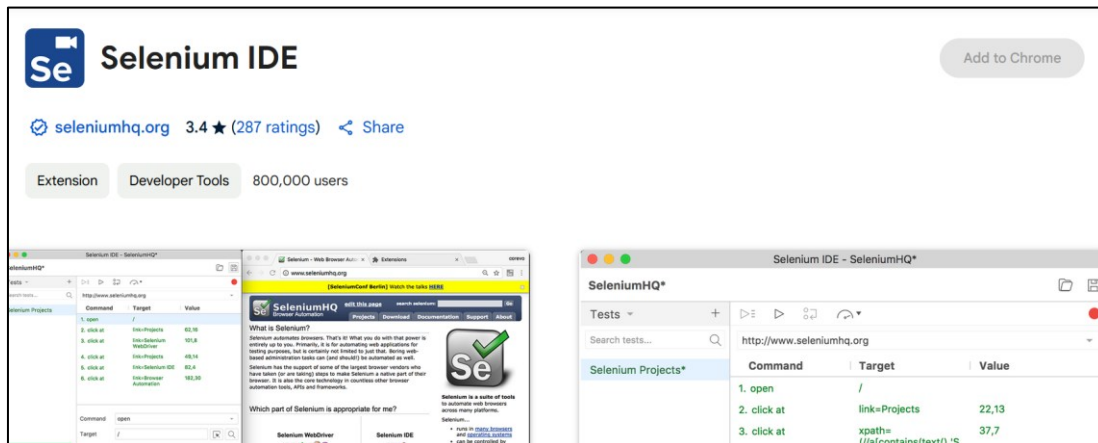 - o **Selenium Server**: Download the Selenium Server JAR file from the Selenium website.
    - ▪ https://www.selenium.dev/downloads/
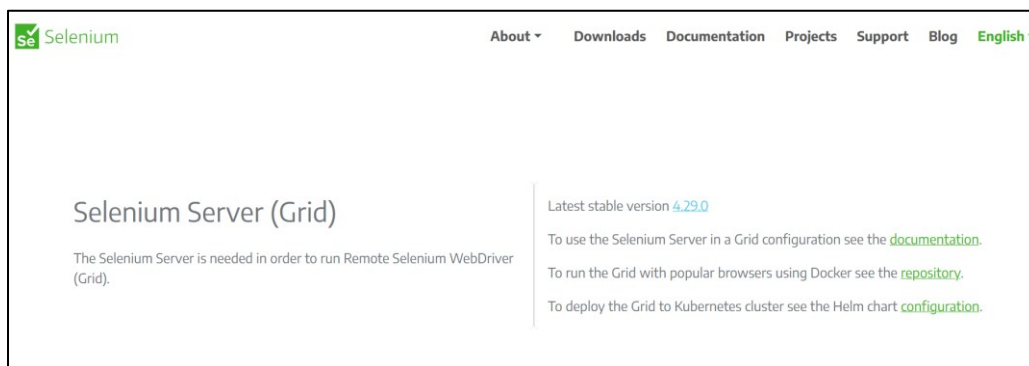
  - o **ChromeDriver**: Download ChromeDriver from the ChromeDriver site, ensure you download the version that corresponds to your version of chrome
   - ▪ For versions of Chrome 115+ - https://googlechromelabs.github.io/chrome-for-testing/

- For versions of Chrome less than 115 - https://developer.chrome.com/docs/chromedriver/downloads/version-selection
- <u>Checking your Version of Chrome</u>
  - Go to this webpage - chrome://settings/help
- **Selenium IDE:** https://chromewebstore.google.com/detail/selenium-ide/mooikfkahbdckldjjndioackbalphokd?hl=en&pli=1

2.3 Setup Server Files

- **Organize Files**
  - Create a directory in the C drive called selenium (Optional if it already exists)
    - C:\selenium
  - Move the downloaded selenium-server.jar and chromedriver.exe into the C:\selenium directory.
    - Rename the Selenium Server file to selenium-server.jar
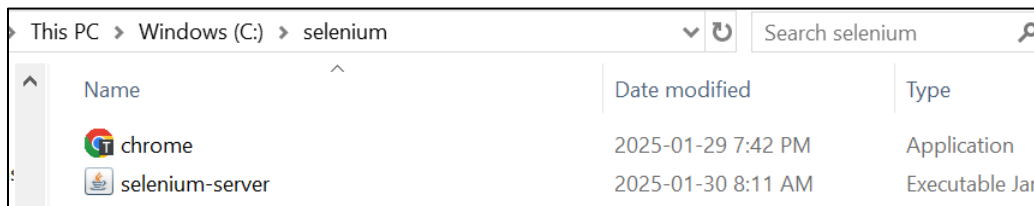
- **Run Selenium Server**
  - Open a Command Prompt and navigate to the directory:
    - `cd C:\selenium`
  - Start the Selenium Server by running:
    - `java -jar selenium-server.jar standalone`

- o To verify the server is running, open your browser and navigate to:
  - http://localhost:4444/ui/

3. Setting Up Your PHP Project in XAMPP

3.1 Create Your Project Folder

- Download the project files from the GitHub repo in Tutorial 5
- Place your PHP project folder within the XAMPP htdocs directory (C:\xampp\htdocs).
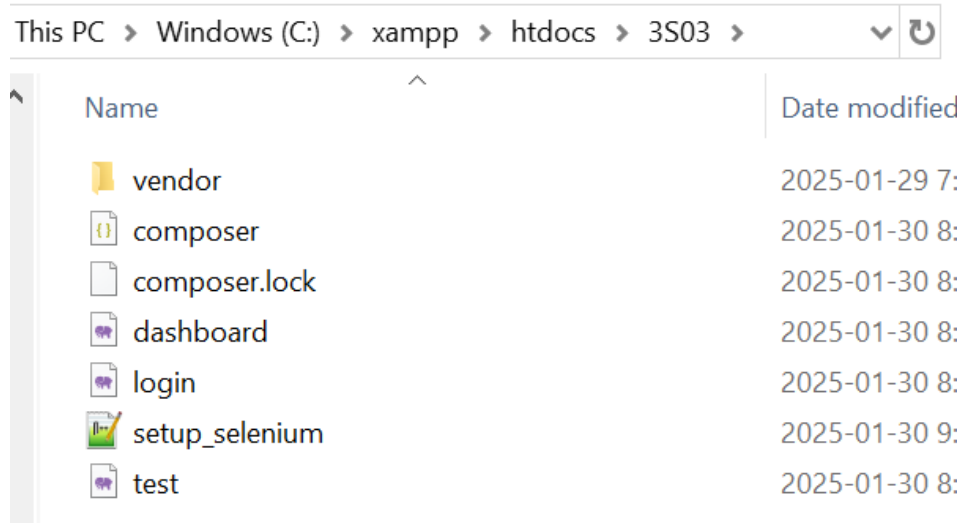
3.2 Install WebDriver

- Open a Command Prompt, navigate to your project directory, and run the following Composer command to install the PHP WebDriver:
    - `cd C:\xampp\htdocs\3S03`
    - `composer require php-webdriver/webdriver`

3.3 Running the Project

- Open your browser and navigate to this page to ensure PHP is working
    - http://localhost/3S03/login.php
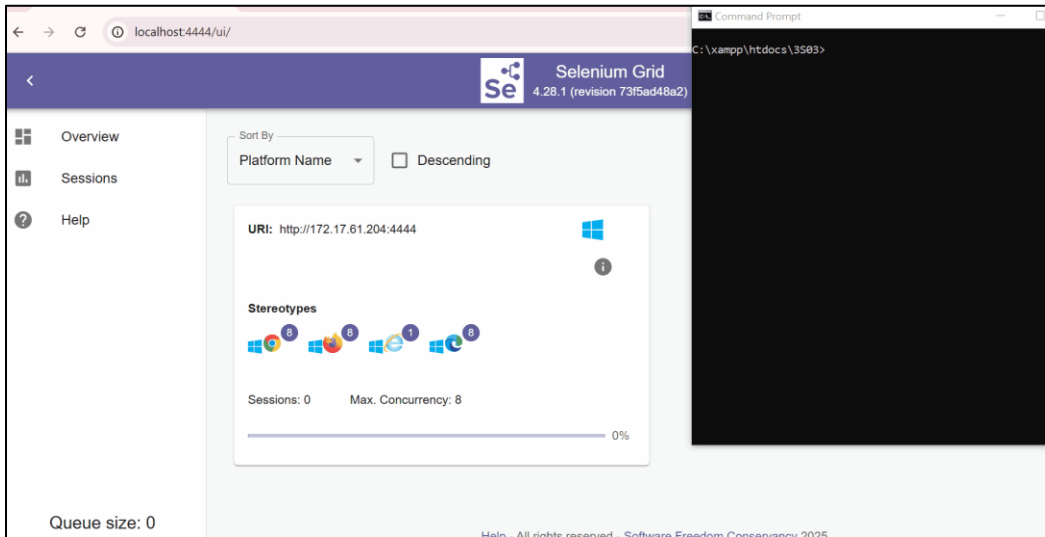

3.4 Running the Test (Command line and Browser)

- You can run the test you create through both browser and command line
- **Browser**
    - Navigate to the page with the same name as your test
        - http://localhost/3S03/test.php

- **Command line**
  - Navigate to the project folder
    - `cd C:\xampp\htdocs\3S03`
  - Run command `php <test file>`
    - `php test.php`