**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

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* + 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.

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* + 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



* + 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:
  + For zsh users:
    - echo 'export PATH=/Applications/XAMPP/xamppfiles/bin:$PATH' >> ~/.zshrc
    - source ~/.zshrc
  + For bash users:
    - echo 'export PATH=/Applications/XAMPP/xamppfiles/bin:$PATH' >> ~/.bash\_profile
    - source ~/.bash\_profile

**1.3 Start Apache Server**

* **Launch Apache**
  + Open the XAMPP Control Panel.

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* + Click the Start button next to Apache to launch the server.

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# **2. Installing Additional Tools**

**2.1 Install Composer**

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

**2.2 Install Selenium Server & ChromeDriver**

* **Download Files**
  + **Selenium Server**: Download the Selenium Server JAR file from the Selenium website.
    - https://www.selenium.dev/downloads/

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* + **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>
    - Checking your Version of Chrome
      * Go to this webpage - chrome://settings/help
  + **Selenium IDE:** <https://chromewebstore.google.com/detail/selenium-ide/mooikfkahbdckldjjndioackbalphokd?hl=en&pli=1>

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**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

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* **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

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

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# **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).

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**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**

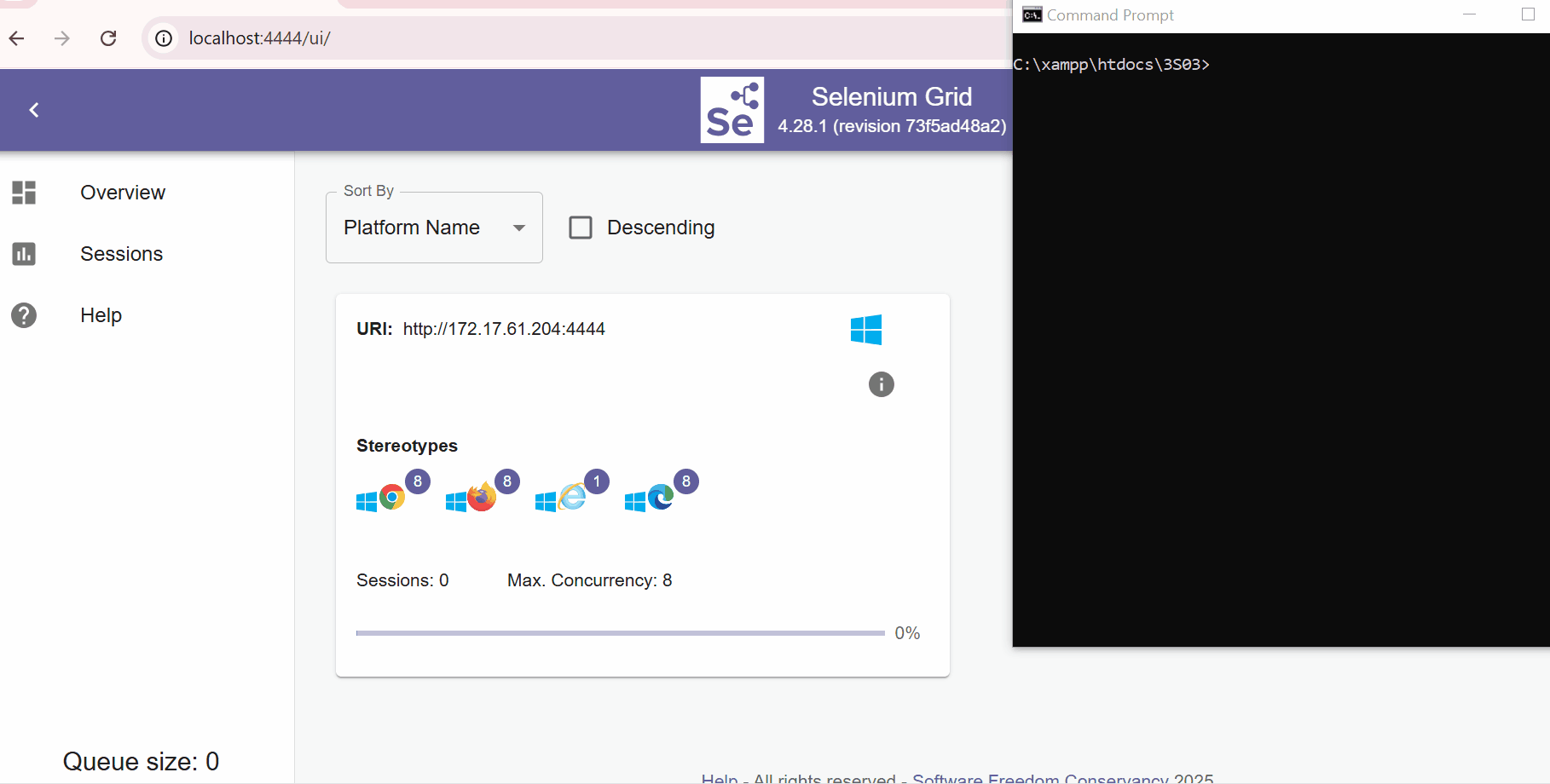
* Open your browser and navigate to this page to ensure PHP is working
  + <http://localhost/3S03/login.php>

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**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

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