# MARY MWANIKI

# **ENVIRONMENT SET UP DOCUMENTATION**

## 1. SELECTING YOUR OPERATING SYSTEM

#### Windows 11 installation:

Download Windows 11

#### STEPS:

- ✓ Visit the Windows 11 download page.
- ✓ Download the Windows 11 Installation Assistant.
- ✓ Run the Installation Assistant and follow the on-screen instructions to install Windows
  11.
- ✓ Complete the setup and personalize your Windows 11 environment.

# 2. INSTALLING A TEXT EDITOR OR INTEGRATED DEVELOPMENT ENVIRONMENT (IDE)

Download and install Visual Studio Code (Vs Code):

Download Vs Code

#### STEPS:

- ✓ Visit the Visual Studio Code download page.
- **✓** Download the appropriate installer for Windows Os.
- **✔** Run the installer and follow the on-screen instructions to complete the installation.
- ✓ Launch VS Code and customize the interface according to your preferences.

## 3. SETTING UP VERSION CONTROL SYSTEM

Install Git and configure it on your local machine. Create a GitHub account and initialize a Git repository.

Create an Account on GitHub

**Download Git** 

#### STEPS:

- ❖ Download and install Git from the link above.
- ❖ Open a terminal and configure Git:



- ❖ Create a GitHub account if you don't have one already.
- Create a new repository on GitHub.
- ❖ Initialize a local Git repository:

```
```bash
git init
```

❖ Add your files and make your first commit:

```
"bash
git add .
git commit -m "Initial commit"
```

❖ Link your local repository to GitHub and push your changes:

```
```bash
git remote add origin https://github.com/yourusername/your-repo.git
git push -u origin main
```

4. Installing Necessary Programming Languages and Runtimes

# **Install Python:**

**Download Python** 

#### STEPS:

- Visit the Python download page.
- ❖ Download the installer for your OS.
- Aun the installer and ensure to check the option "Add Python to PATH."
- ❖ Follow the on-screen instructions to complete the installation.
- Verify the installation:



5. Installing Package Managers

**Install pip for Python** 

#### STEPS:

❖ Pip is included with Python installation. Verify by running:



❖ If not installed, download `get-pip.py` and run it:

```
```bash

python get-pip.py
```

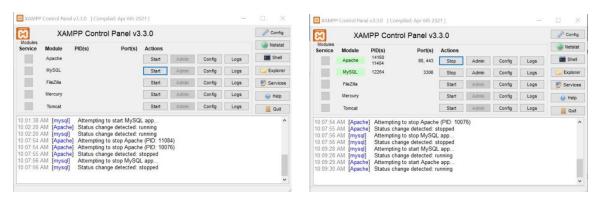
6. Configuring a Database (MySQL via XAMPP)

Utilize the MySQL server provided by XAMPP

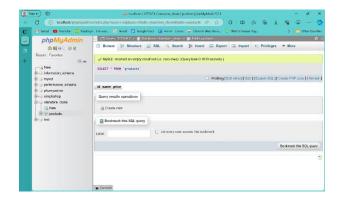
#### **Download Xampp**

#### STEPS:

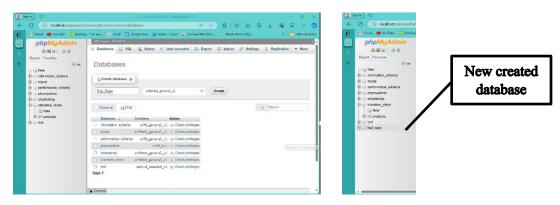
- 1. Download and Install XAMPP (if not already installed):
  - Visit the XAMPP download page.
  - Download the installer for your OS.
  - Run the installer and follow the setup instructions to install XAMPP.
- 2. Starting MySQL Server with XAMPP:
  - Open the XAMPP Control Panel.
  - Start the MySQL service by clicking the "Start" button next to "MySQL".



- 3. Accessing phpMyAdmin:
  - Open your web browser and go to <u>http://localhost/phpmyadmin</u>.
  - Use phpMyAdmin to manage your MySQL databases.



- 4. Creating a Database:
  - In phpMyAdmin, click on the "Databases" tab.
  - Enter a name for your new database and click "Create".



7. Setting Up Development Environments and Virtualization (Optional)

# **Install Docker**

## STEPS:

- 1. Visit the Docker download page.
- 2. Download the Docker Desktop installer.
- 3. Run the installer and follow the on-screen instructions to complete the installation.
- 4. Verify the installation by running:

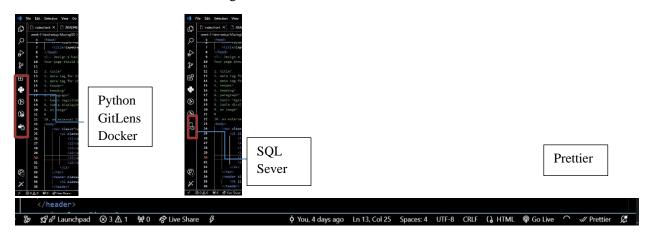
``bash
docker --version

# 8. Exploring Extensions and Plugins

## **Enhance VS Code with extensions**

#### **EXTENSIONS:**

- 1. Open VS Code.
- 2. Go to the Extensions view by clicking the Extensions icon in the Activity Bar.
- 3. Search for and install the following extensions:



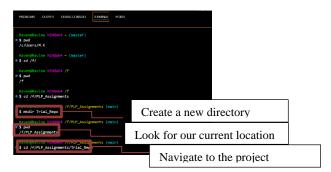
# Sample Project and Reflection

1. Create a sample project and reflect on the setup process

#### STEPS:

Create a Sample Project:

Create the project folder and navigate to it.



❖ Initialize a new Git repository in your project folder:



Create new project files and dependent folders.



❖ Add your project files and checking the status:



Commit your changes:

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```

# 2. Push Your Local Repository to GitHub

- Link your local repository to the GitHub repository:

```
``bash
git remote add origin https://github.com/yourusername/dev-setup-documentation.git
...
```

- Push your changes to GitHub:

```
```bash
git push -u origin main
```

# GITHUB REPOSITORY LINKS.

- \* Trial Repo Sample Project
- \* Refection.md Reflection document