**DOCUMENTATION SET-UP FOR DEVELOPER ENVIRONMENT-SET-UP**

**1. Install Windows 11**

1. **Download Windows 11**:

* Visit the [Windows 11 Download Page](https://www.microsoft.com/software-download/windows11).
* Click on "Download now" and follow the instructions to create a bootable USB drive or upgrade your current system.

1. **Install Windows 11**:

* Insert the bootable USB drive into your computer.
* Restart your computer and boot from the USB drive.
* Follow the on-screen instructions to install Windows.

### 2. ****Install Visual Studio Code****

1. **Download Visual Studio Code**:

* Visit the [Visual Studio Code Download Page](https://code.visualstudio.com/Download).
* Download the appropriate installer for your operating system.

1. **Install Visual Studio Code**:

* Run the downloaded installer.
* Follow the installation instructions.

### 3. ****Set Up Version Control System****

1. **Install Git**:

* Visit the [Git Download Page](https://git-scm.com/download/win).
* Download and install Git for Windows.

1. **Configure Git**:

* Open Git Bash (installed with Git)
* Configure your Git username and email as follows:

Type: git config --global user.name "kitingarael"

Type: git config --global user.email "raelkitinga2021@gmail.com"

### 4. ****Install Necessary Programming Languages and Runtimes****

1. **Install Python**:
   * Visit the [Python Download Page](https://www.python.org/downloads/).
   * Download and install the latest version of Python.
   * Ensure you check the option to add Python to your PATH during installation.

### 5. ****Install Package Managers****

* + 1. **Install pip**:
* pip is installed by default with Python. You can check its installation by running this in a git bash:

Type: pip –version

### 6. ****Configure a Database (MySQL)****

1. **Download MySQL**:

* Visit the [MySQL Installer Page](https://dev.mysql.com/downloads/windows/installer/5.7.html).
* Download the MySQL Installer.

1. **Install MySQL**:

* Run the downloaded installer.
* Follow the setup instructions to install MySQL Server, MySQL Workbench, and other components as needed.
* Configure MySQL Server with a root password and default settings.

### 7. ****Set Up Development Environments and Virtualization (Optional)****

1. **Install Docker**:

* Visit the Docker Download Page.
* Download and install Docker Desktop for Windows.

### 8. ****Explore Extensions and Plugins****

1. **Install VS Code Extensions**:

* Open Visual Studio Code.
* Go to the Extensions view by clicking on the Extensions icon in the Activity Bar on the side of the window.
* Search for and install extensions like:
  + - Python (for Python development)
    - GitLens (for enhanced Git capabilities)
    - Prettier (for code formatting)
    - Docker (if using Docker)