**Assignmenet on setup**

I chose Windows 11 as my operating system for this project. Here are the steps I followed to download and install Windows 11:

**Download Windows 11**: I visited the [official Microsoft website](https://www.microsoft.com/software-download/windows11) to download Windows 11.

**Installation**: After downloading the installation media, I followed the on-screen instructions to install Windows 11 on my machine.

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#### **To Install a Text Editor or Integrated Development Environment (IDE)**

I decided to use Visual Studio Code (VS Code) as my IDE because it supports multiple programming languages and has a wide range of extensions. Here’s how I installed it:

**Download Visual Studio Code**: I went to the [Visual Studio Code download page](https://code.visualstudio.com/Download) and selected the Windows version.

**Installation**: After downloading the installer, I ran the executable file and followed the setup wizard to complete the installation.

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#### **Setting Up Version Control System**

To manage my project’s version control, I installed Git and set up a GitHub account. Here are the steps I took:

**Install Git**: I downloaded Git from the [official Git website](https://git-scm.com/) and followed the installation instructions.

**Configure Git**: After installation, I configured my Git settings using the following commands in the terminal:  
  
git config --global user.name "my user name"

git config --global user.email "my email address"

I created a GitHub account by signing up at [GitHub](https://github.com).

I created a new repository on GitHub.

Cloned the repository to my local machine using:  
  
  
git clone https://github.com/yourusername/your-repository.git

I navigated to the cloned repository and made my first commit:  
  
  
cd your-repository

echo "# My Project" >> README.md

git add README.md

git commit -m "Initial commit"

git push origin main

#### **Installing Necessary Programming Languages and Runtimes**

For this project, I chose Python as my programming language. Here’s how I installed it:

**Download Python**: I went to the [official Python website](https://www.python.org) and downloaded the latest version for Windows. 3.12.3

**Installation**: I ran the installer and ensured that the option to add Python to PATH was selected.

**Verify Installation**: I opened the terminal and verified the installation by running:  
  
  
python --version

#### **Installing Package Managers**

To manage Python packages, I used pip. It comes bundled with Python, so no additional installation was required. I verified pip installation by running:

pip --version

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

I needed a database for my project, so I chose MySQL. Here’s how I set it up:

I downloaded MySQL from the [official MySQL website](https://dev.mysql.com/downloads/windows/installer/5.7.html).

I ran the installer and followed the setup wizard to install MySQL.

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#### **Extensions and Plugins**

To enhance the functionality of my VS Code, I explored and installed several extensions:

**Extensions Installed**:

**Python**: Provides IntelliSense, linting, and debugging for Python.

**ESLint**: Integrates ESLint into VS Code.

**Prettier**: A code formatter.

**Live Server**: Launches a local development server with a live reload feature.

Here is a project sample that i initiated with git https://github.com/Petero-brandel/My-second-Assignment-PLP