1. **Select Your Operating System (OS): Choose an operating system that best suits your preferences and project requirements. Download and Install Windows 11. https://www.microsoft.com/software-download/windows11**

Objective: Install Windows 11 on a designated computer using a bootable USB drive created with Rufus, a third-party utility.

Materials:

- Target computer meeting Windows 11 system requirements
- Bootable USB drive with 8GB of storage space
- Download copy of Rufus from the official website (https://rufus.ie/)

Procedure:

1. Media Preparation with Rufus:
    - Downloaded a valid Windows 11 ISO file from the Microsoft website (https://www.microsoft.com/software-download/windows11).
    - Launched the downloaded Rufus application.
    - Identified the target USB drive by selecting it from the "Device" dropdown menu.
    - Clicked the "SELECT" button next to "Boot selection" and chose the downloaded Windows 11 ISO file.
    - Verified that the "Partition scheme" and "Target system" options were set to appropriate values but I chose GPT for UEFI systems based on the target computer's configuration.
    - Left other settings at their default values.
    - Clicked "Start" to initiate the process of creating the bootable USB drive. Confirmed the prompt to erase all data on the chosen drive. Then I waited for the installation to complete and ejected my bootable USB drive from the computer on which I had downloaded the Windows 11 ISO file.
2. BIOS/UEFI Configuration:
    - Restarted the target computer.
    - During the boot process, pressed the Esc key to enter the BIOS/UEFI settings menu .
    - Located the boot order settings within the BIOS/UEFI menu.
    - Modified the boot order to prioritize the newly created bootable USB drive.
    - Saved the changes and exited the BIOS/UEFI menu.
3. Windows 11 Installation:
    - The target computer booted from the USB drive and commenced the Windows 11 installation process.

    - Followed the on-screen instructions, selecting the desired language, keyboard layout, and time zone.
    - A product key was prompted, but I chose to skip for now since I did not have a product key.
    - Selected the Custom installation type.
    - Chose C drive for Windows 11 installation.
    - The installation process began and took some time.
4. Post-Installation:
    - Once the installation was complete, the computer restarted automatically.
    - Completed the initial setup screens for language, region, and user account creation.
    - The Windows 11 desktop loaded, indicating a successful installation.

Conclusion: Successfully installing Windows 11 on the target computer was achieved by utilizing Rufus to create a bootable USB drive.

2. **Install a Text Editor or Integrated Development Environment (IDE): Select and install a text editor or IDE suitable for your programming languages and workflow. Download and Install Visual Studio Code. https://code.visualstudio.com/Download**

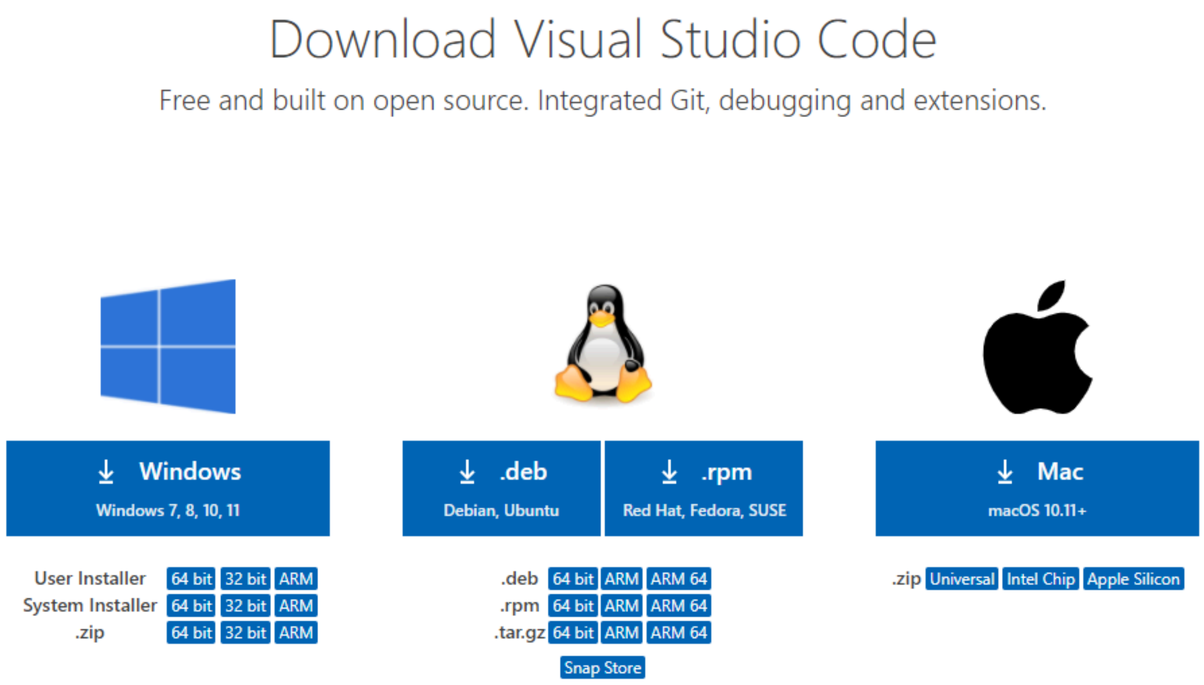
Visual Studio Code (VS Code) is a powerful code editor that works great for various programming languages, including Python. This guide will walk you through downloading and installing VS Code on Windows 11, along with setting up Python extension for enhanced development experience.

Prerequisites:

- Internet connection (recommended for download and updates)
- Windows 11 operating system

Downloading VS Code:

1. Open your web browser and visit the official Visual Studio Code download page: https://code.visualstudio.com/download
2. You'll see the download options for various operating systems. Under the "Windows" section, click the download button (usually labeled "Download for Windows").



Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.

Visual Studio Code Download Page

Running the Installer: Once the download finishes, locate the downloaded file. It will typically be named "VSCodeUserSetup-{version}.exe". Double-click the downloaded installer file to begin the setup process.

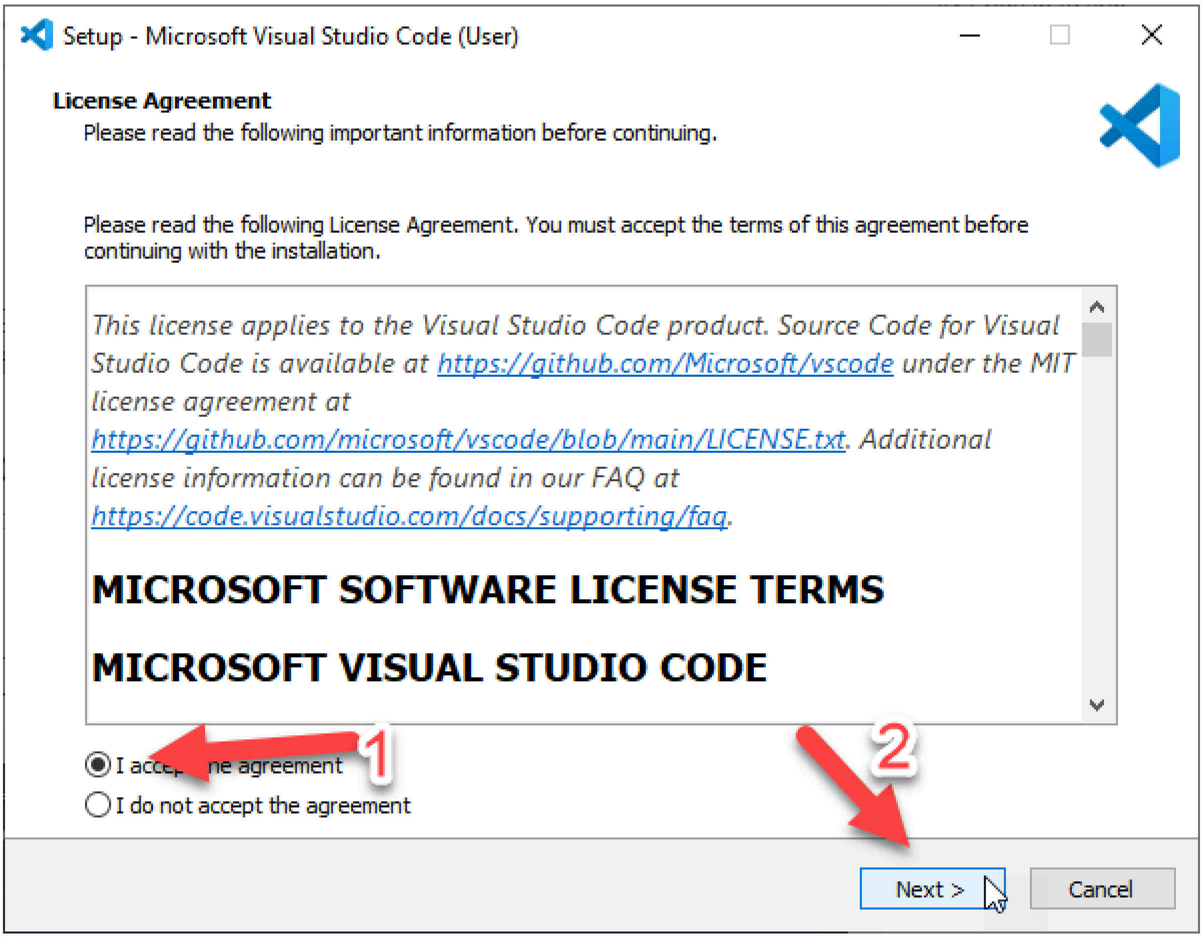
Installation Options:

1. The VS Code installer will open with a welcome message. Click "Next" to proceed.

VS Code Installer Welcome Screen

2. The next screen allows you to choose the installation location for VS Code. The default location is typically C:\Users\{Username}\AppData\Local\Programs\Microsoft VS Code. You can keep the default or choose a different location if desired. Click "Browse" to select a different location.

3. You can also choose whether to create a desktop shortcut for VS Code. This is recommended for easy access. Leave the checkbox ticked if you want a shortcut.
4. Review the license terms. If you agree, click the checkbox and then click "Install" to begin the installation process.



Setup - Microsoft Visual Studio Code (User)

License Agreement

Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

This license applies to the Visual Studio Code product. Source Code for Visual Studio Code is available at https://github.com/Microsoft/vscode under the MIT license agreement at https://github.com/microsoft/vscode/blob/main/LICENSE.txt. Additional license information can be found in our FAQ at https://code.visualstudio.com/docs/supporting/faq.

MICROSOFT SOFTWARE LICENSE TERMS

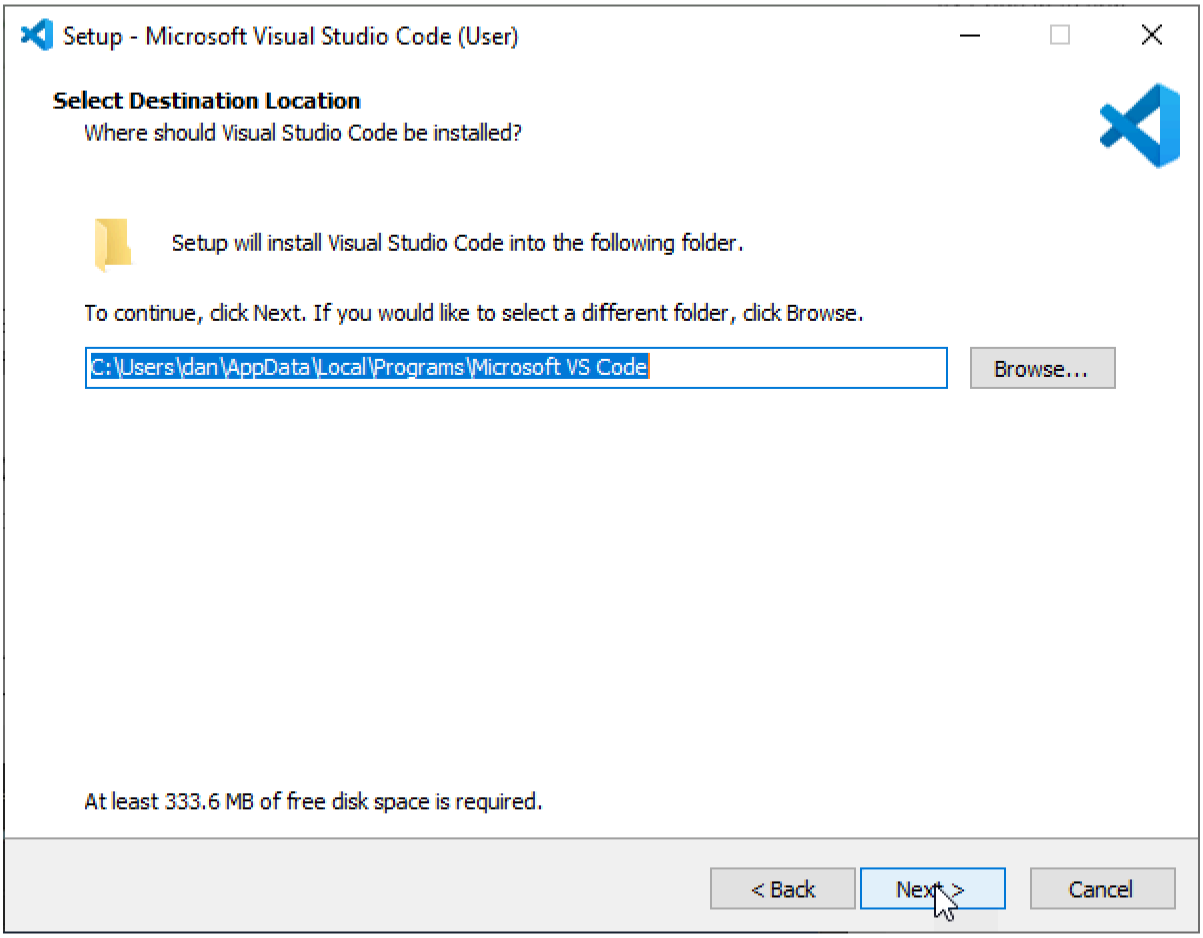
MICROSOFT VISUAL STUDIO CODE

● I accept the agreement

○ I do not accept the agreement

VS Code Installer License Terms and Installation Options

Next



Setup - Microsoft Visual Studio Code (User)

Select Destination Location

Where should Visual Studio Code be installed?

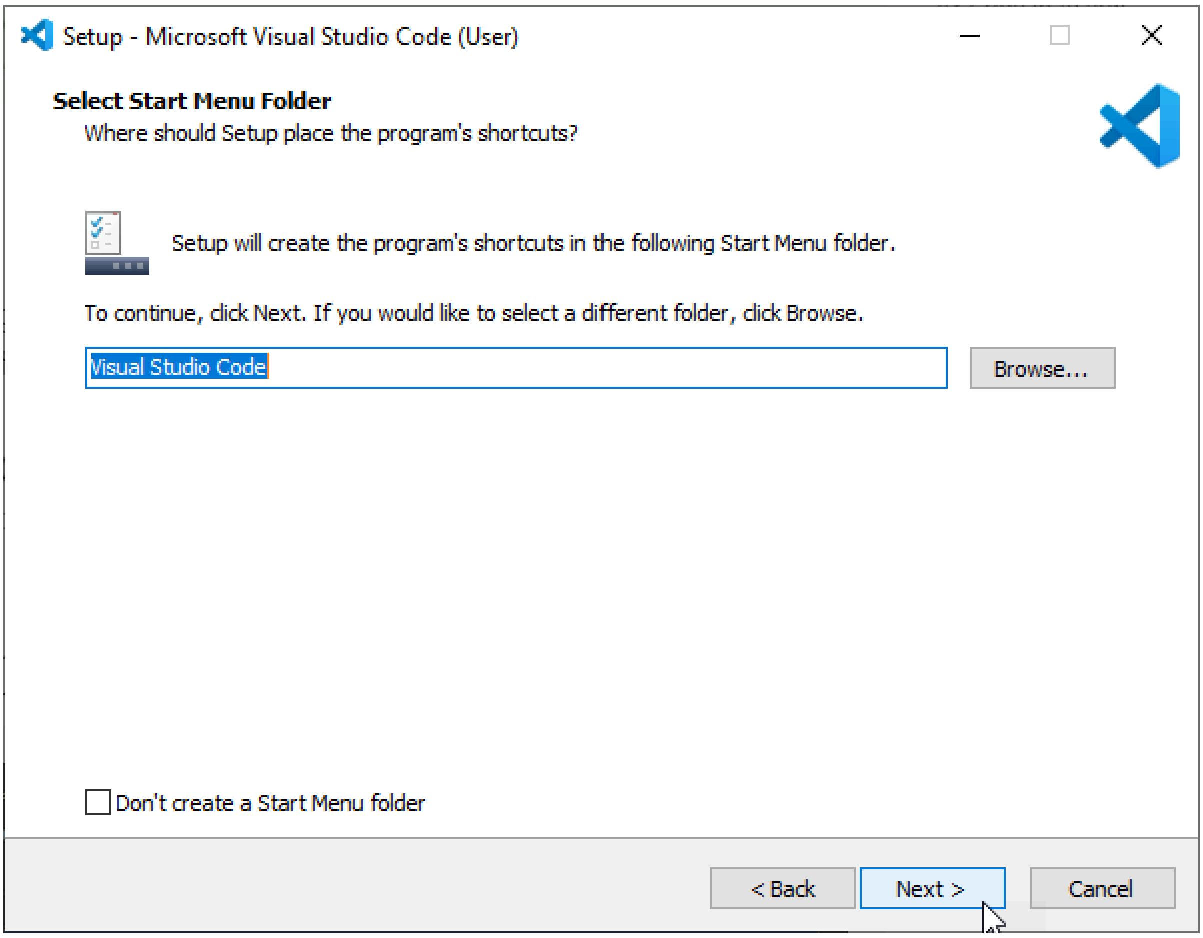
Setup will install Visual Studio Code into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Users\dan\AppData\Local\Programs\Microsoft VS Code

At least 333.6 MB of free disk space is required.

Next



Setup - Microsoft Visual Studio Code (User)

Select Start Menu Folder

Where should Setup place the program's shortcuts?

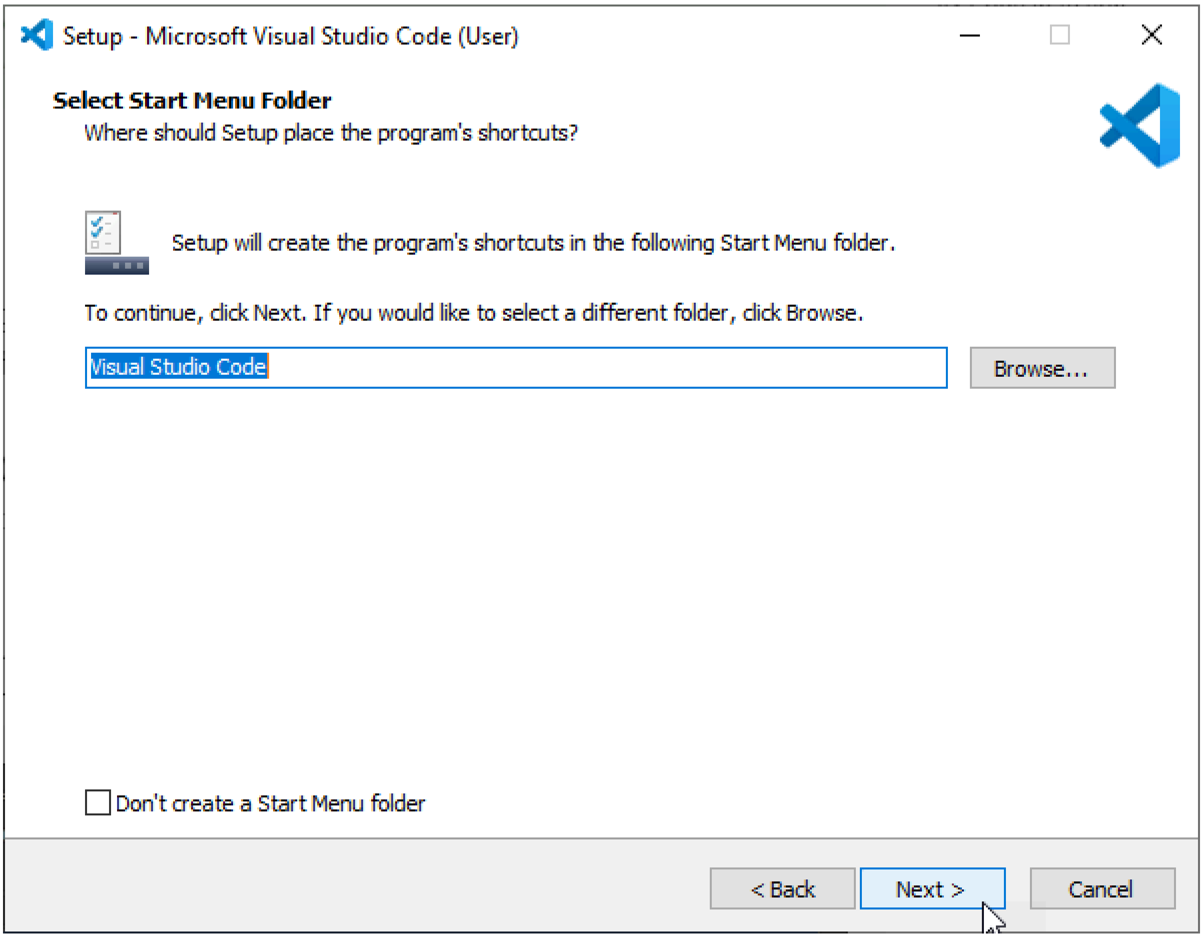
Setup will create the program's shortcuts in the following Start Menu folder.

To continue, click Next. If you would like to select a different folder, click Browse.

Visual Studio Code

□ Don't create a Start Menu folder

Next



Setup - Microsoft Visual Studio Code (User)

Select Start Menu Folder

Where should Setup place the program's shortcuts?

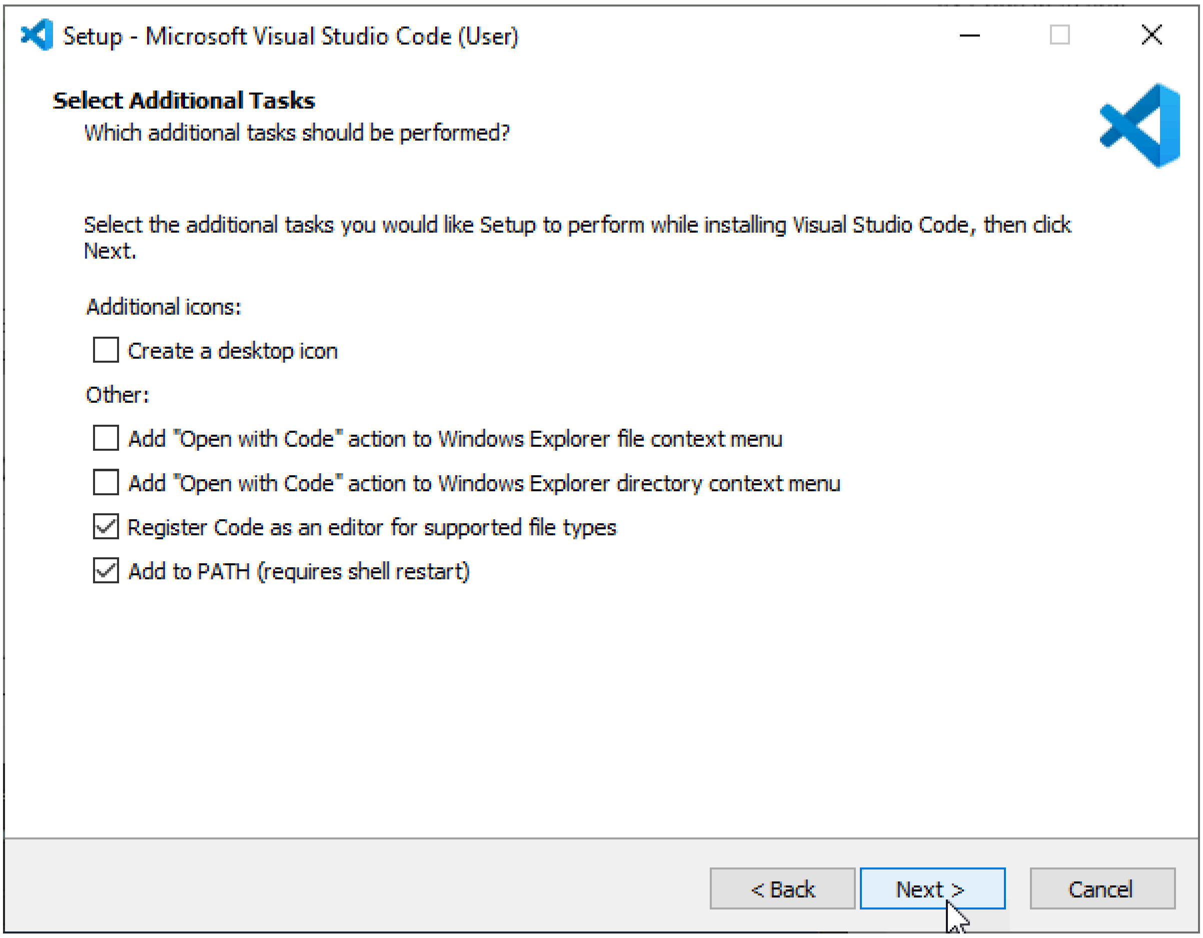
Setup will create the program's shortcuts in the following Start Menu folder.

To continue, click Next. If you would like to select a different folder, click Browse.

Visual Studio Code

☐ Don't create a Start Menu folder

Next



Setup - Microsoft Visual Studio Code (User)

Select Additional Tasks

Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Visual Studio Code, then click Next.

Additional icons:

☐ Create a desktop icon

Other:

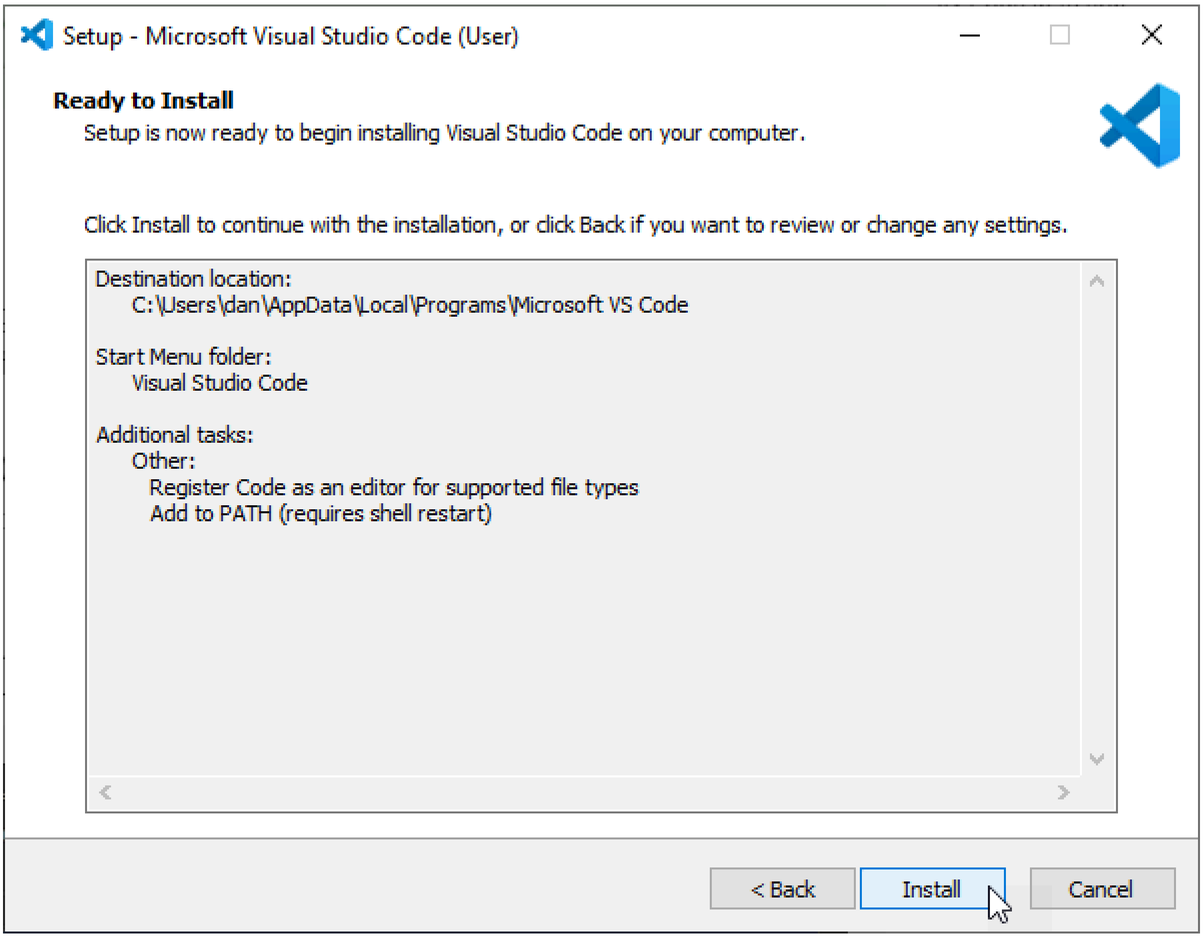
☐ Add "Open with Code" action to Windows Explorer file context menu

☐ Add "Open with Code" action to Windows Explorer directory context menu

☑ Register Code as an editor for supported file types

☑ Add to PATH (requires shell restart)

Next



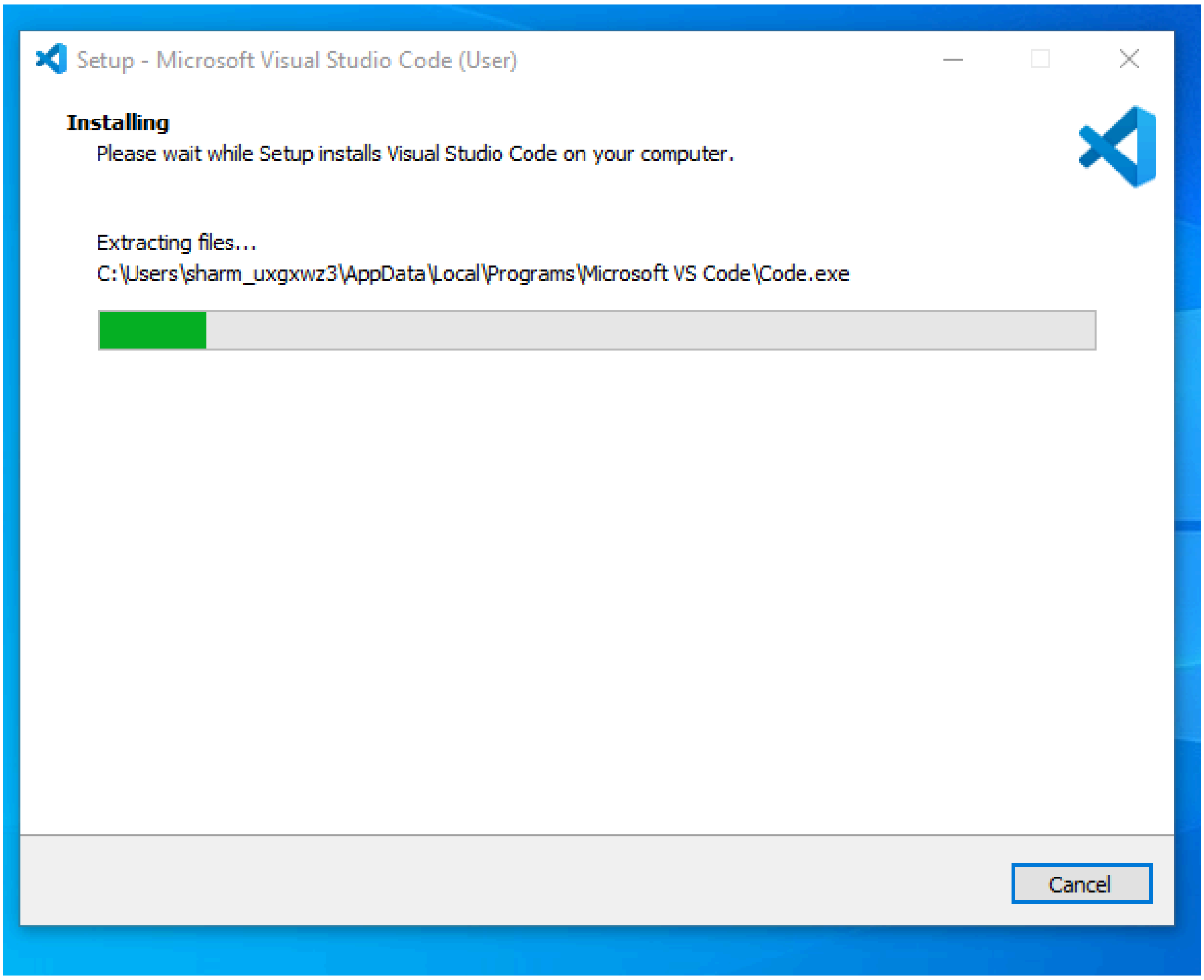
Ready to Install

Setup is now ready to begin installing Visual Studio Code on your computer.

Click Install to continue with the installation, or click Back if you want to review or change any settings.

```
Destination location:
    C:\Users\dan\AppData\Local\Programs\Microsoft VS Code

Start Menu folder:
    Visual Studio Code

Additional tasks:
    Other:
      Register Code as an editor for supported file types
      Add to PATH (requires shell restart)
```

Next



Setup - Microsoft Visual Studio Code (User)

Installing

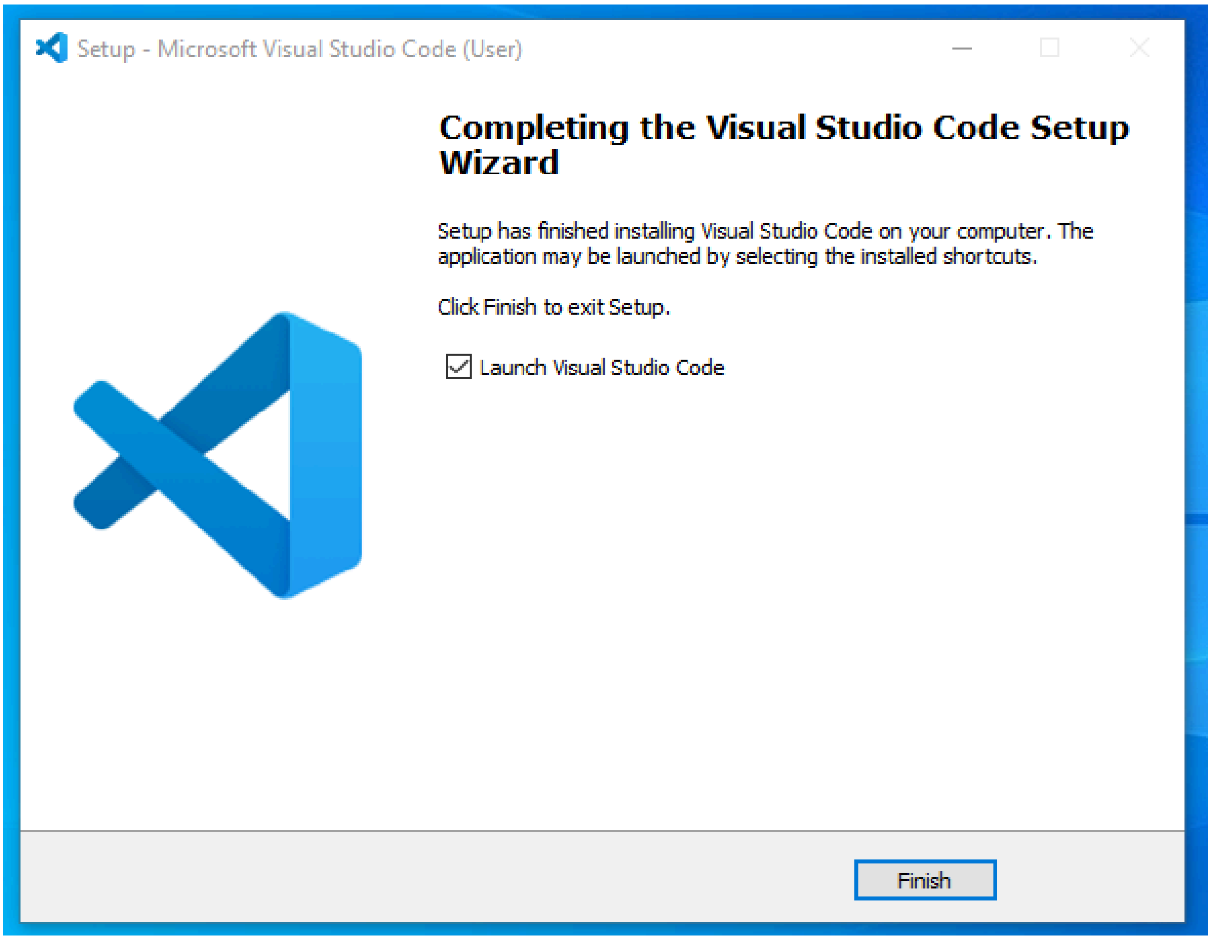
Please wait while Setup installs Visual Studio Code on your computer.

Extracting files...

C:\Users\sharm_uxgxwz3\AppData\Local\Programs\Microsoft VS Code\Code.exe

Installation Progress:The installation process will take a few minutes depending on your internet speed and system configuration. You'll see a progress bar indicating the installation status.

VS Code Installer Installation Progress



Setup - Microsoft Visual Studio Code (User)

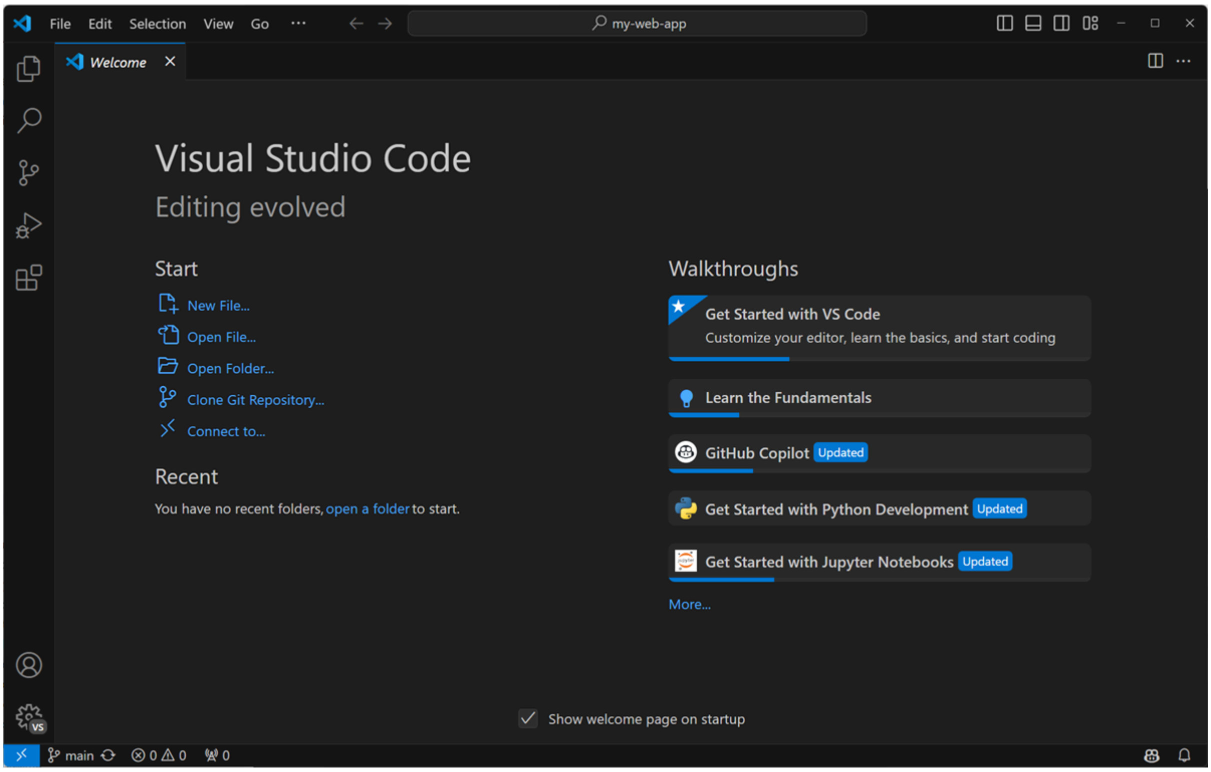
Completing the Visual Studio Code Setup Wizard

Setup has finished installing Visual Studio Code on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

☑ Launch Visual Studio Code

Launch VS Code: Once the installation is complete, you'll see a completion message. You can click the "Finish" button to close the installer. You can now launch VS Code by clicking on the shortcut (if created) on your desktop or by searching for it in the Start menu.



You have no recent folders, open a folder to start.

Customize your editor, learn the basics, and start coding

☑ Show welcome page on startup

VS Code Installer Installation Complete and you have successfully downloaded and installed Visual Studio Code on your Windows 11 system.
After installing VS Code, you can personalize it to create an optimal coding environment that suits your preferences and workflow. Here are some initial configurations and settings to consider:

Themes and Fonts:

- Theme: VS Code offers a variety of built-in themes (light and dark) that can affect the overall look and feel of the editor. You can explore them under the "File" -> "Preferences" -> "Settings" menu and search for "Theme". Choose one that you find aesthetically pleasing and easy on your eyes. Popular themes include Dark+, Monokai, and One Dark Pro.
- Font: Setting a comfortable font size and type can significantly improve your coding experience. You can adjust these preferences under "Settings" by searching for "Font Size" and "Font Family". Consider fonts like Fira Code, Consolas, or Cascadia Mono, designed for code readability.

Extensions:

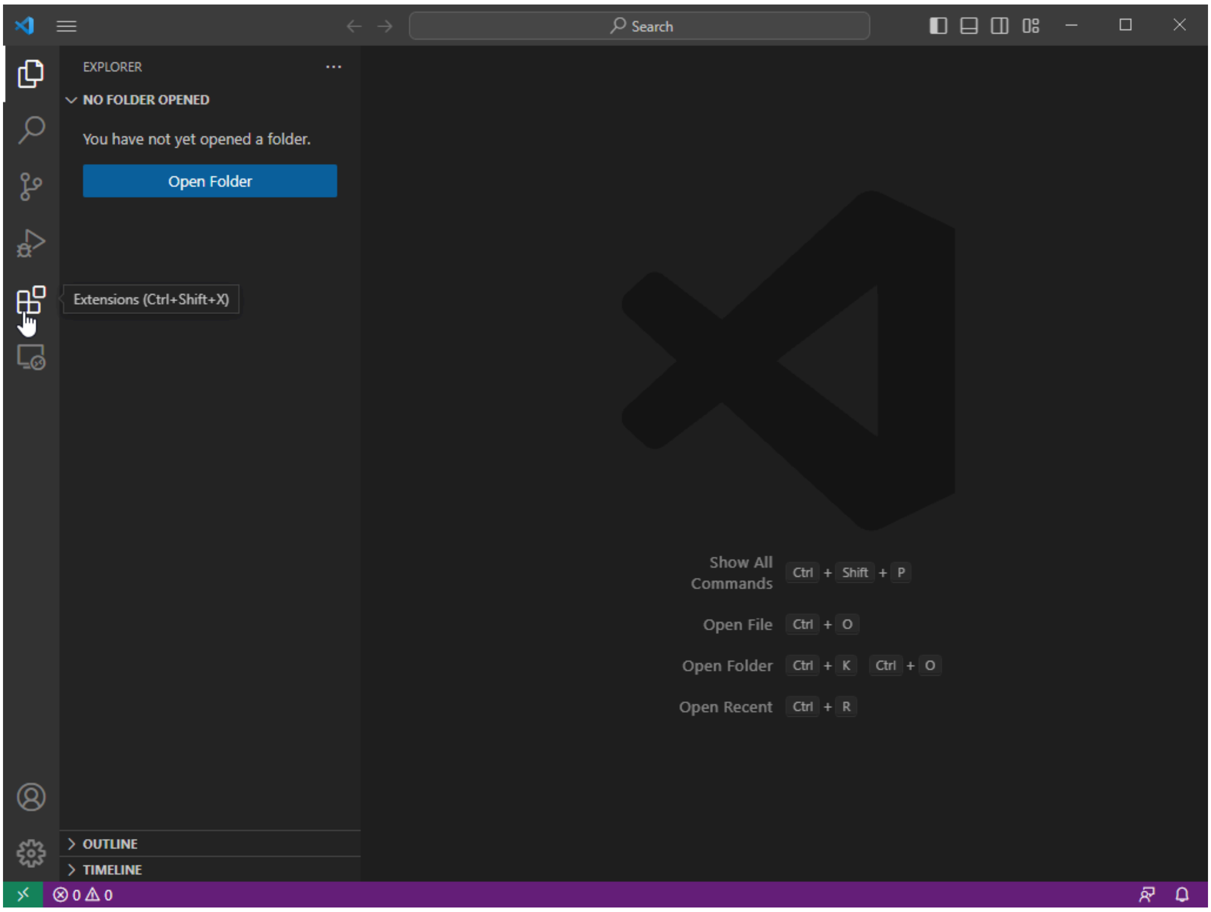
VS Code offers a vast library of extensions that extend its functionality and cater to specific programming languages or development tasks. Here are some highly recommended extensions for an enhanced coding experience:

- Python (by Microsoft): This essential extension provides IntelliSense, code completion, linting, debugging, and other functionalities specifically for Python development. (Already installed as described in the previous steps)
- Code Runner: Allows you to directly run code snippets or entire files within VS Code, streamlining your development workflow.

- Pylint: A popular Python linter that helps identify potential errors and code style issues in your Python projects.
- GitLens: Supercharges your Git integration within VS Code, allowing you to visualize code history, blame commits, and navigate branches effortlessly.
- Bracket Pair Colorizer: Highlights matching brackets and parentheses in different colors, making your code easier to read and navigate.
- Settings Sync: Synchronizes your VS Code settings and extensions across multiple machines, ensuring a consistent coding environment wherever you work.

Installing Python extension:

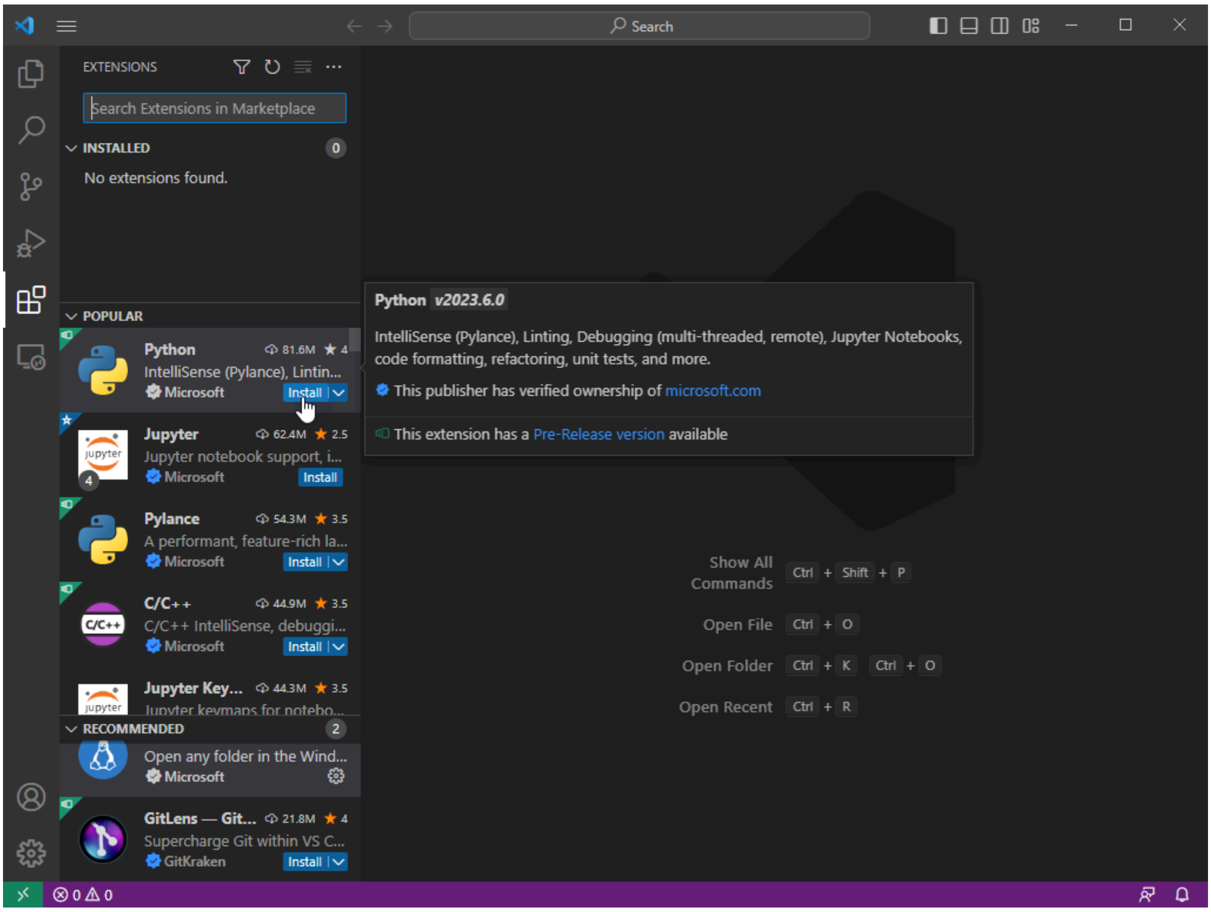
1. Open VS Code.
2. Click on the Extensions icon (looks like a box with four smaller squares inside) in the Activity bar on the left side of the window.
3.



You have not yet opened a folder.

VS Code Extensions Icon Highlighted

3. In the Extensions search bar, type "python" and press Enter. This will display a list of extensions related to Python development.
4. Look for the extension named "Python" by Microsoft. Click the "Install" button next to it.



Search
EXTENSIONS
Search Extensions in Marketplace
INSTALLED
0
No extensions found.
POPULAR
Python 81.6M ★ 4
IntelliSense (Pylance), Lintin...
Microsoft
Install
Jupyter 62.4M ★ 2.5
Jupyter notebook support, i...
Microsoft
Install
Pylance 54.3M ★ 3.5
A performant, feature-rich la...
Microsoft
Install
C/C++ 44.9M ★ 3.5
C/C++ IntelliSense, debuggi...
Microsoft
Install
Jupyter Key... 44.3M ★ 3.5
Jupyter keymaps for notebo...
RECOMMENDED
2
Open any folder in the Wind...
Microsoft
GitLens — Git... 21.8M ★ 4
Supercharge Git within VS C...
GitKraken
Install
Show All Commands Ctrl + Shift + P
Open File Ctrl + O
Open Folder Ctrl + K Ctrl + O
Open Recent Ctrl + R
⊗ 0 ⚠ 0

Python *v2023.6.0*

IntelliSense (Pylance), Linting, Debugging (multi-threaded, remote), Jupyter Notebooks, code formatting, refactoring, unit tests, and more.

This publisher has verified ownership of microsoft.com

This extension has a Pre-Release version available

Settings:

- Auto Save: Enabling "Auto Save" under "Settings" -> "Files" ensures your code is automatically saved at regular intervals, preventing data loss in case of unexpected crashes.
- Keyboard Shortcuts: VS Code offers many default keyboard shortcuts for various actions. You can customize these shortcuts under "Settings" -> "Keyboard Shortcuts" to align with your preferences or leverage existing shortcut sets from other code editors you're familiar with.
- Terminal: Consider configuring your preferred terminal within VS Code for seamless integration with your command line tools. You can adjust these under "Settings" -> "Terminal".

These are just some general recommendations. The best configuration for your VS Code environment depends on your specific needs and coding style. Explore the vast array of extensions and settings available to personalize your experience and create an optimal coding environment that boosts your productivity and enjoyment.

3. **Set Up Version Control System: Install Git and configure it on your local machine. Create a GitHub account for hosting your repositories. Initialize a Git repository for your project and make your first commit. https://github.com**

The objective of this assignment is to set up a version control system using Git on a Windows 11 machine, configure it, create a GitHub account for hosting repositories, initialize a Git repository for a project, and make the first commit.

Step 1: Install Git

- I visited the official Git website at git-scm.com.
- I clicked on the "Download" button to obtain the Git installer for Windows.
- I located the downloaded installer (Git-2.45.2-64-bit.exe) and double-clicked to execute it.
- I followed the installation wizard, using the default settings unless specific preferences were required:
    - I selected my preferred text editor when prompted which was vscode for my case.
    - I chose the option to "Use Git from the command line and also from 3rd-party software."
    - For line ending conversions, I selected "Checkout Windows-style, commit Unix-style line endings."
- I completed the installation process.

Step 2: Configure Git

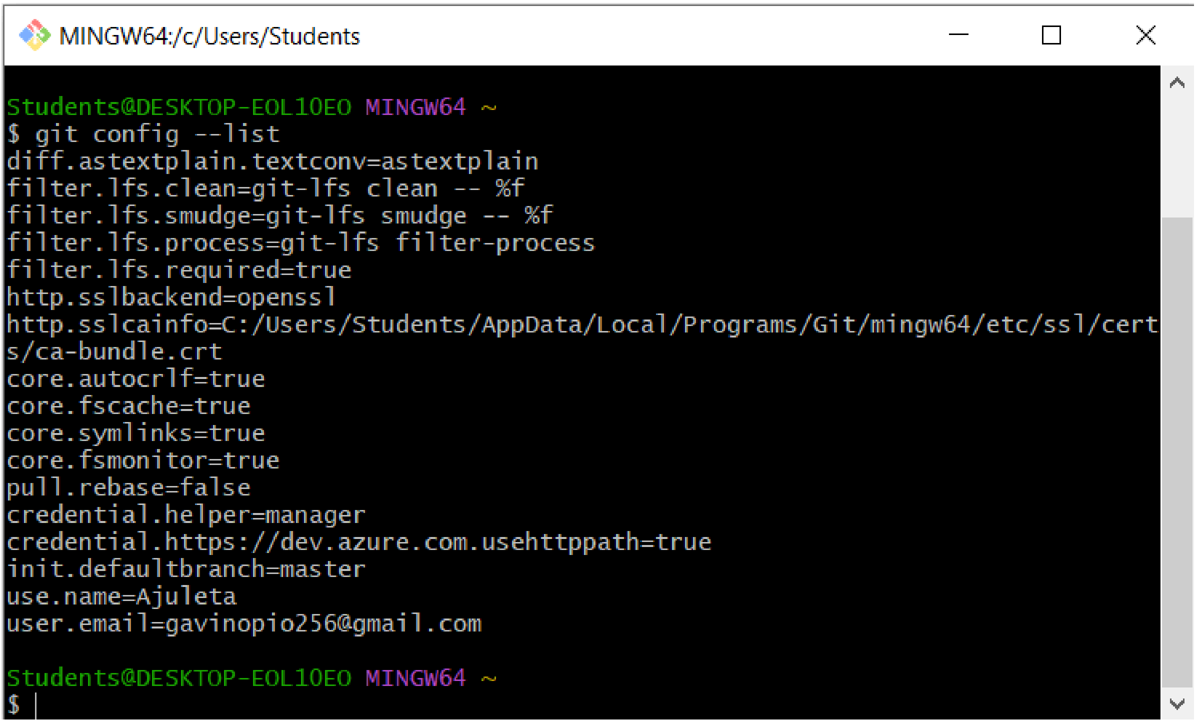
- Git Bash is included with the Git for Windows installation. I opened Git Bash by searching for it in the Start menu.
- In Git Bash, I configured my user information with the following commands:

```
git config --global user.name "Ajuleta"
git config --global user.email "gavinopio256@gmail.com"
```

- To verify the configuration, I ran:

```
git config –list
```

- This command displayed my Git settings, including username and email.



```
Students@DESKTOP-EOL10EO MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=C:/Users/Students/AppData/Local/Programs/Git/mingw64/etc/ssl/cert
s/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=true
core.fsmonitor=true
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
use.name=Ajuleta
user.email=gavinopio256@gmail.com

Students@DESKTOP-EOL10EO MINGW64 ~
$ |
```

Step 3: Create a GitHub Account

- I navigated to GitHub and clicked on the "Sign up" button in the upper right corner.
- I followed the instructions to create my GitHub account.

Step 4: Initialize a Git Repository

- I opened Git Bash and navigated to my project folder using the following command:

  cd C:\Users\Students\Desktop\PLP\GIT\NewEcommerceApp

- I initialized a new Git repository in my project folder by executing:

  git init

Step 5: Make Your First Commit

- To stage all changes in my project folder, I ran:

  git add .

- I committed the staged changes with an appropriate message:

  git commit -m "Initial commit"

Step 6: Push to GitHub

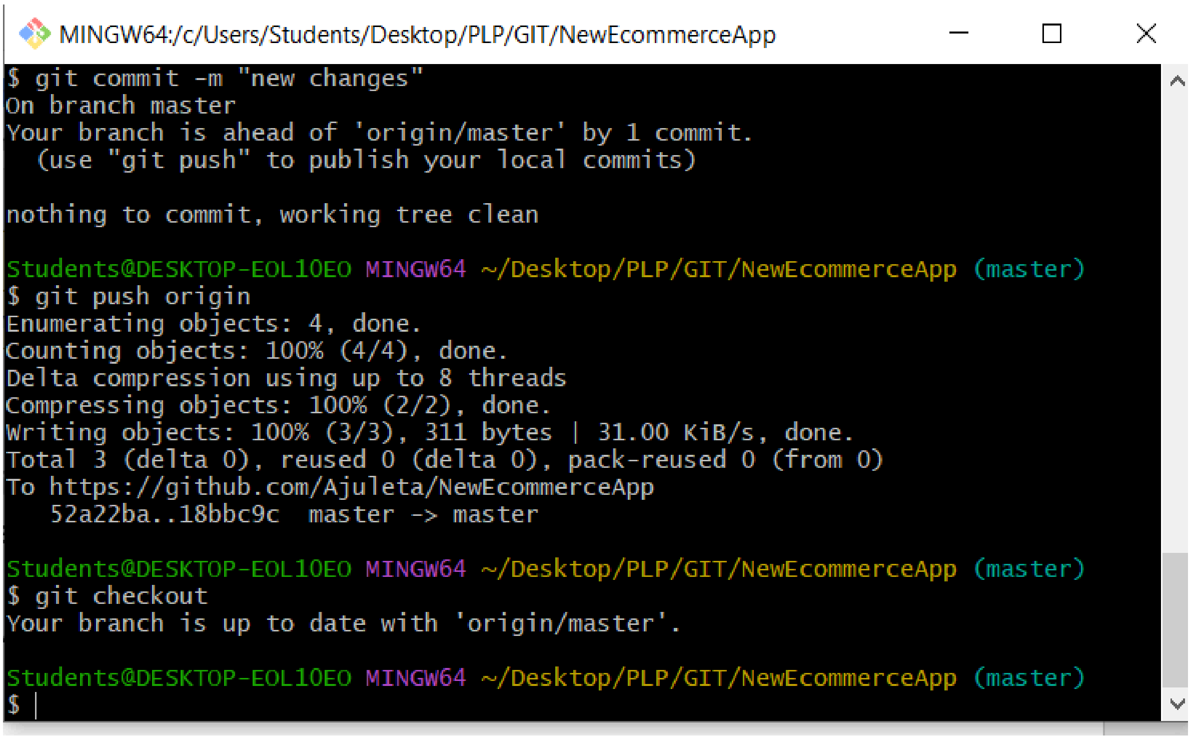
- I logged in to my GitHub account and clicked the + icon in the upper right corner.
- I selected “New repository” and filled in the repository details such as name and description.
- I clicked Create repository.
- I copied the URL of my new GitHub repository.
- In Git Bash, I linked my local repository to the GitHub repository using:

```
git remote add origin https://github.com/Ajuleta/NewEcommerceApp.git
```

- I pushed my initial commit to the remote repository on GitHub:

```
git push -u origin master
```

I had an error report “src refspec master does not match any” in trying to push my commits to the repository but I later got a solution from https://www.freecodecamp.org/news/error-src-refspec-master-does-not-match-any-how-to-fix-in-git/ on how to resolve the error.



MINGW64:/c/Users/Students/Desktop/PLP/GIT/NewEcommerceApp

```
$ git commit -m "new changes"
On branch master
Your branch is ahead of 'origin/master' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Students@DESKTOP-EOL10EO MINGW64 ~/Desktop/PLP/GIT/NewEcommerceApp (master)
$ git push origin
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 311 bytes | 31.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Ajuleta/NewEcommerceApp
   52a22ba..18bbc9c  master -> master

Students@DESKTOP-EOL10EO MINGW64 ~/Desktop/PLP/GIT/NewEcommerceApp (master)
$ git checkout
Your branch is up to date with 'origin/master'.

Students@DESKTOP-EOL10EO MINGW64 ~/Desktop/PLP/GIT/NewEcommerceApp (master)
$ |
```

4. **Install Necessary Programming Languages and Runtimes: Install Python from http://wwww.python.org programming language required for your project and install**

their respective compilers, interpreters, or runtimes. Ensure you have the necessary tools to build and execute your code.

The goal of this assignment is to install Python on my Windows 11 machine and ensure I have the necessary tools to build and execute code for my project.

Step 1: Download Python

- I navigated to python.org using my web browser.
- On the homepage, I located the download section and chose the latest stable release for Windows.

Step 2: Install Python

- I clicked on the download link for the desired Python version. This downloaded the installer to my computer.
- I located the downloaded installer file (python-3.12.4.exe) and double-clicked to run it.
- During the installation process, I could customize the installation if needed. However, I decided to use the default settings.
- I ensured that the "Add Python to PATH" option was checked. This allowed me to run Python from the command line.
- I followed the prompts to complete the installation.

Step 3: Verify the Installation

- I opened Command Prompt by searching for it in the Start menu.
- I typed the following command and pressed Enter:

```
python –version
```

- This displayed the version of Python that I installed.

```
Python 3.12.4
```

- Pip is the package installer for Python. I verified its installation by typing:

```
pip --version
```

- This displayed the version of Pip installed.

```
pip 24.0 from C:\Program Files\Python312\Lib\site-packages\pip (python 3.12)
```

Step 4: Install Necessary Packages and Tools

- It is good practice to upgrade Pip to the latest version. I ran:

  pip install --upgrade pip

- For project-specific dependencies, it is recommended to use a virtual environment. I installed the virtual environment module which was not installed:

  python -m pip install virtualenv

2. Create a Virtual Environment:

   - I navigated to my project directory and created a virtual environment:

     cd C:\Users\Students\Desktop\PLP\my_project
     python -m venv venv

3. Activate the Virtual Environment:

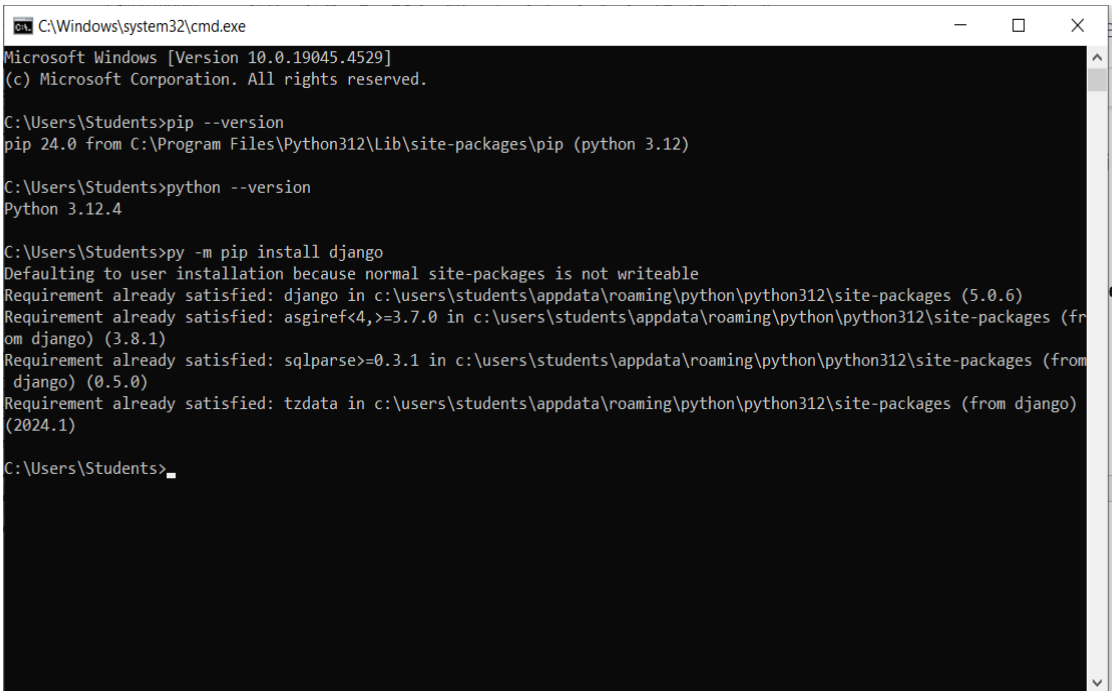
   - I activated the virtual environment:

     .\venv\Scripts\activate

4. Install Project Dependencies:

   - With the virtual environment activated, I installed necessary packages specified by my project in this case Django

     Python -m pip install Django
     But since I had initially installed it just gave me this screen



```
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Students>pip --version
pip 24.0 from C:\Program Files\Python312\Lib\site-packages\pip (python 3.12)

C:\Users\Students>python --version
Python 3.12.4

C:\Users\Students>py -m pip install django
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: django in c:\users\students\appdata\roaming\python\python312\site-packages (5.0.6)
Requirement already satisfied: asgiref<4,>=3.7.0 in c:\users\students\appdata\roaming\python\python312\site-packages (fr
om django) (3.8.1)
Requirement already satisfied: sqlparse>=0.3.1 in c:\users\students\appdata\roaming\python\python312\site-packages (from
 django) (0.5.0)
Requirement already satisfied: tzdata in c:\users\students\appdata\roaming\python\python312\site-packages (from django)
(2024.1)

C:\Users\Students>
```

Step 5: Verify the Setup

- I created a simple Python script to verify the setup. I created a file named test.py with the following content:

  ```
  print("Hello, Python!")
  ```

- I ran the script from the command line:

  ```
  python test.py
  ```

- The script ran and output Hello, Python!, confirming that Python was installed and working correctly.

5. **Install Package Managers: If applicable, install package managers like pip (Python).**

Here's how to install pip, the package manager for Python, on a Windows machine:

Method 1: Using the Official Python Installer.

1. Download the latest Python installer from the official website: https://www.python.org/downloads/
2. During installation, make sure to check the box for "Add Python to PATH". This ensures you can run pip commands from anywhere in your command prompt.
3. Open a Command Prompt window (search for "`cmd`" in the Start menu).
4. Type `pip --version` and press Enter.

If pip is installed correctly, you should see the version number displayed.

Method 2: Using get-pip.py (For users who already have Python installed)

1. Download the get-pip.py script from the Python Packaging Authority: https://pip.pypa.io/en/stable/installation/
2. Save get-pip.py to a convenient location on your computer (e.g., your Desktop).
3. Open a Command Prompt window (search for "`cmd`" in the Start menu).
4. Use the cd command to navigate to the directory where you saved get-pip.py. For example, if you saved it on your Desktop, type:

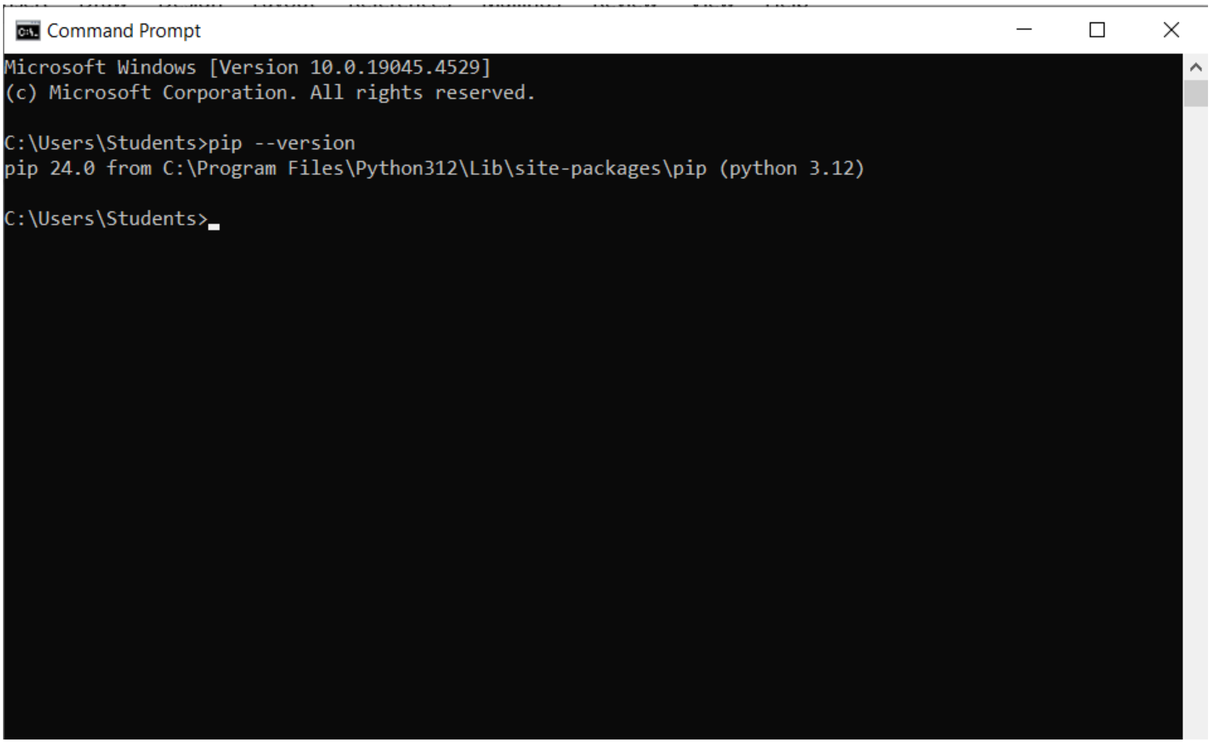
   ```
   cd Desktop
   ```

5. Run the following command to install pip using Python:

```
python get-pip.py
```

6. Follow the on-screen instructions during the installation process.

Once you've completed either method, open a new Command Prompt window and type pip --version again. You should see the pip version displayed, confirming successful installation.



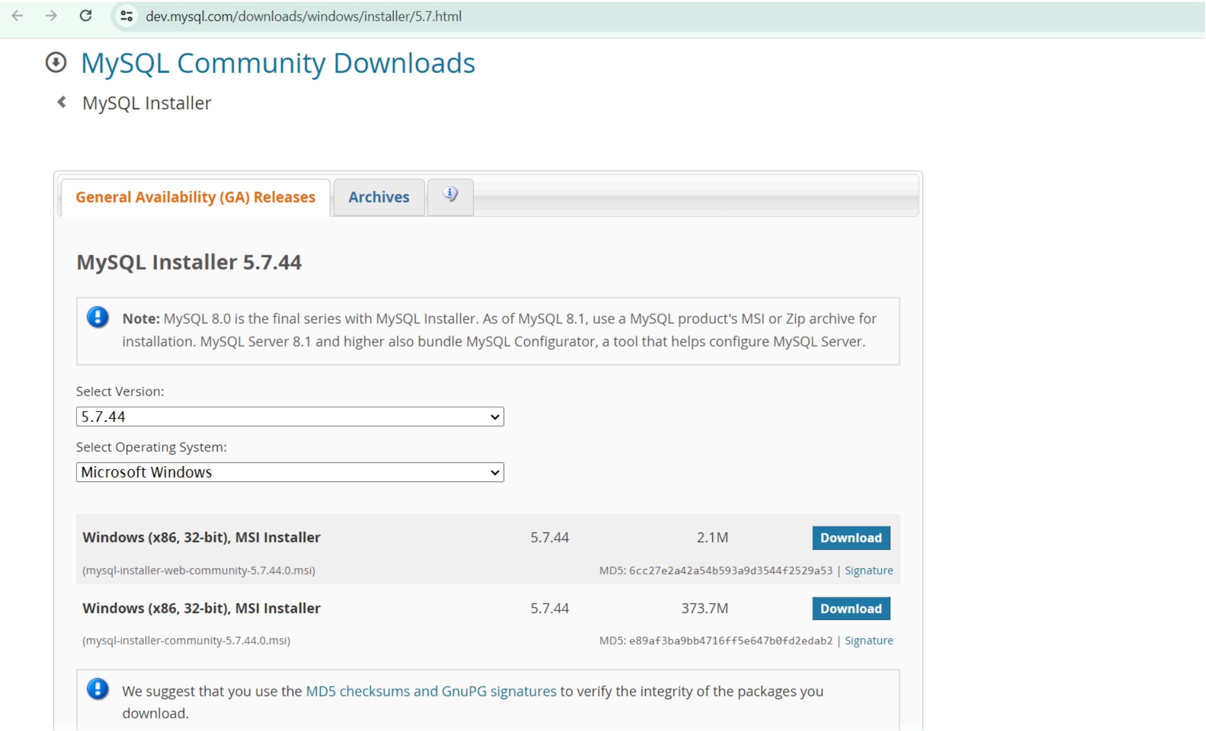
```
Microsoft Windows [Version 10.0.19045.4529]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Students>pip --version
pip 24.0 from C:\Program Files\Python312\Lib\site-packages\pip (python 3.12)

C:\Users\Students>_
```

6. Configure a Database (MySQL): Download and install MySQL database. https://dev.mysql.com/downloads/windows/installer/5.7.html

Here's a guide on downloading and installing MySQL database on Windows, including screenshots for each step. We'll be using the recommended MSI Installer method.

1. Download MySQL Installer:

- Visit the MySQL downloads page for Windows: https://dev.mysql.com/downloads/mysql/



dev.mysql.com/downloads/windows/installer/5.7.html
MySQL Community Downloads
MySQL Installer
General Availability (GA) Releases
Archives

MySQL Installer 5.7.44

Note: MySQL 8.0 is the final series with MySQL Installer. As of MySQL 8.1, use a MySQL product's MSI or Zip archive for installation. MySQL Server 8.1 and higher also bundle MySQL Configurator, a tool that helps configure MySQL Server.

Select Version: 5.7.44

Select Operating System: Microsoft Windows

Windows (x86, 32-bit), MSI Installer (mysql-installer-web-community-5.7.44.0.msi)	5.7.44	2.1M	Download MD5: 6cc27e2a42a54b593a9d3544f2529a53 | Signature
Windows (x86, 32-bit), MSI Installer (mysql-installer-community-5.7.44.0.msi)	5.7.44	373.7M	Download MD5: e89af3ba9bb4716ff5e647b0fd2edab2 | Signature

We suggest that you use the MD5 checksums and GnuPG signatures to verify the integrity of the packages you download.

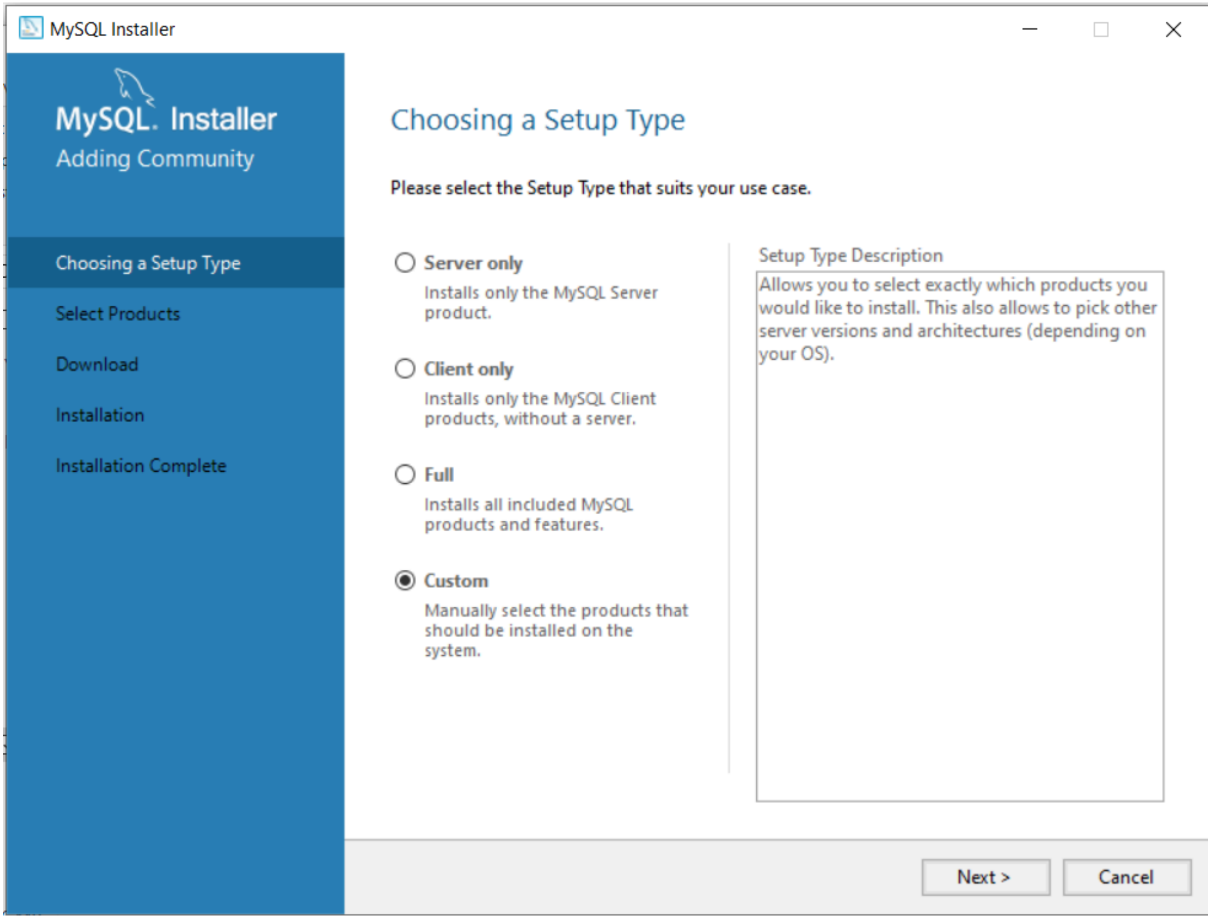
- Under "MySQL Community Server", select the version you want to install (e.g., 8.0.30). Click the "no thanks, just start my download" link.

2. Run the Installer:

- Double-click the downloaded .msi file (e.g., mysql-installer-community-8.0.30.msi).

3. Choose Setup Type:

- In the installer window, select "Custom" setup type (unless you have specific reasons to choose another option). Click "Next".



Choosing a Setup Type

Please select the Setup Type that suits your use case.

○ Server only
Installs only the MySQL Server product.

○ Client only
Installs only the MySQL Client products, without a server.

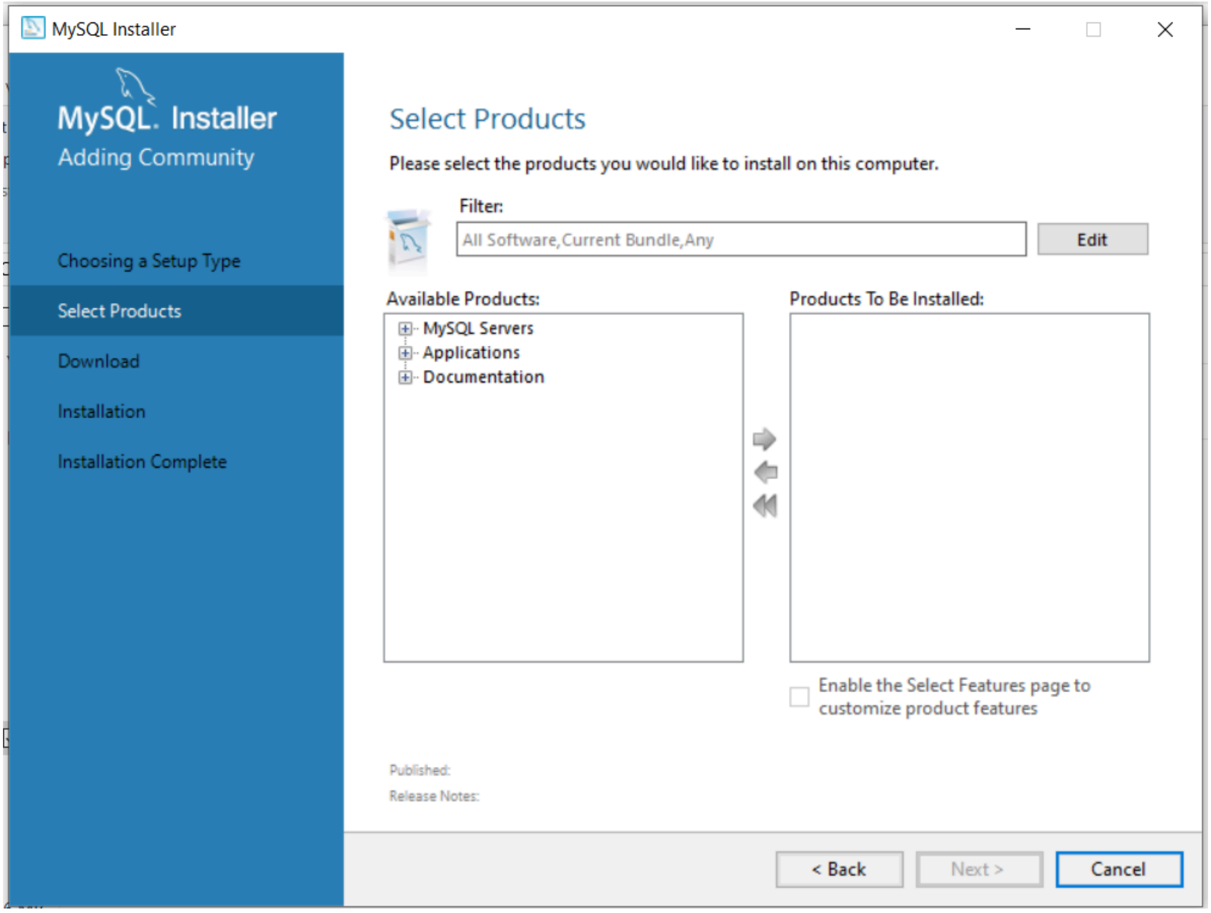
○ Full
Installs all included MySQL products and features.

● Custom
Manually select the products that should be installed on the system.

Setup Type Description

Allows you to select exactly which products you would like to install. This also allows to pick other server versions and architectures (depending on your OS).

Next



MySQL Installer

MySQL. Installer
Adding Community

- Choosing a Setup Type
- Select Products
- Download
- Installation
- Installation Complete

Select Products

Please select the products you would like to install on this computer.

Filter: All Software,Current Bundle,Any

Edit

Available Products:

- MySQL Servers
- Applications
- Documentation

Products To Be Installed:

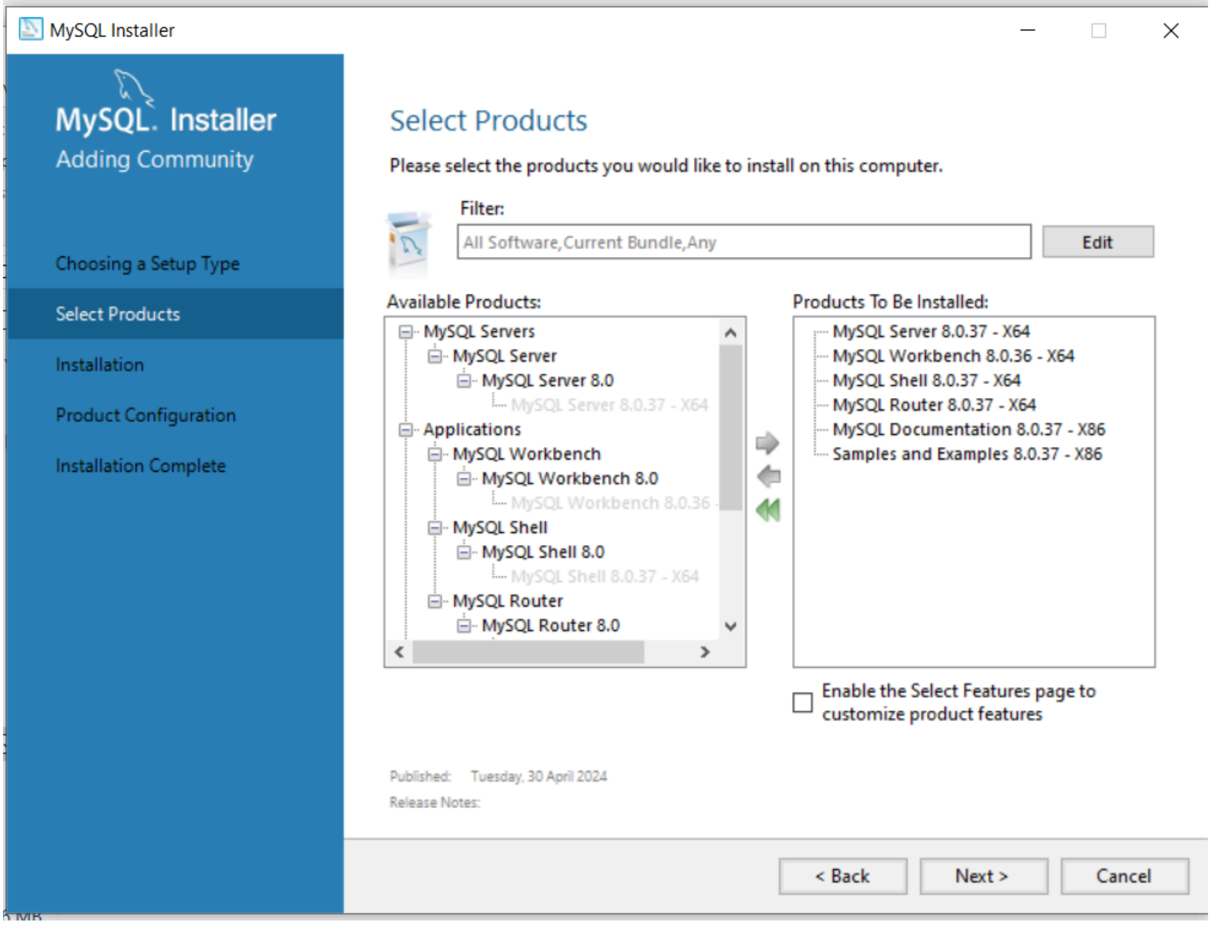
□ Enable the Select Features page to customize product features

Published:

Release Notes:

< Back Next > Cancel

Next



Select Products

Please select the products you would like to install on this computer.

Filter: All Software,Current Bundle,Any

Available Products:

- MySQL Servers
  - MySQL Server
    - MySQL Server 8.0
      - MySQL Server 8.0.37 - X64
- Applications
  - MySQL Workbench
    - MySQL Workbench 8.0
      - MySQL Workbench 8.0.36
  - MySQL Shell
    - MySQL Shell 8.0
      - MySQL Shell 8.0.37 - X64
  - MySQL Router
    - MySQL Router 8.0

Products To Be Installed:

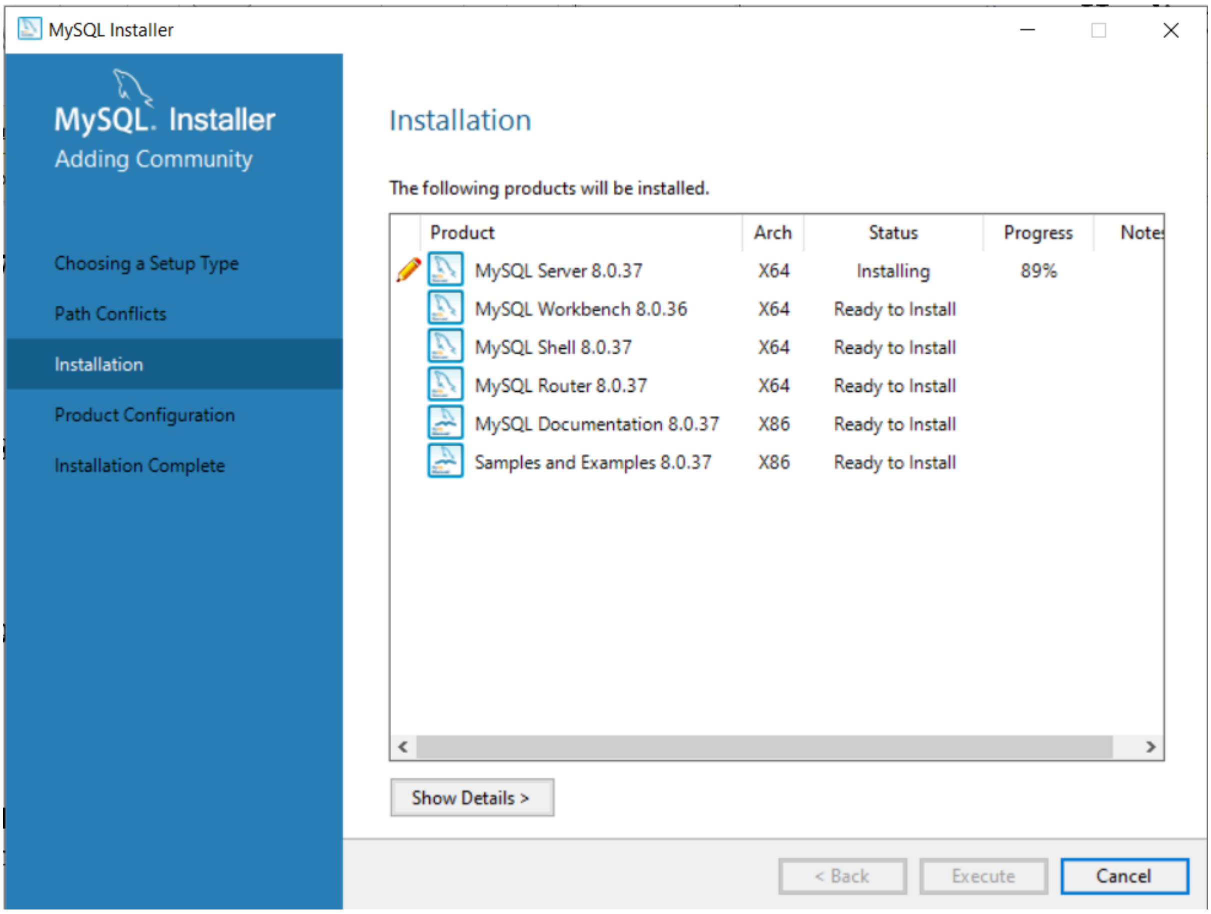
- MySQL Server 8.0.37 - X64
- MySQL Workbench 8.0.36 - X64
- MySQL Shell 8.0.37 - X64
- MySQL Router 8.0.37 - X64
- MySQL Documentation 8.0.37 - X86
- Samples and Examples 8.0.37 - X86

□ Enable the Select Features page to customize product features

Published: Tuesday, 30 April 2024

Release Notes:

Next



MySQL Installer

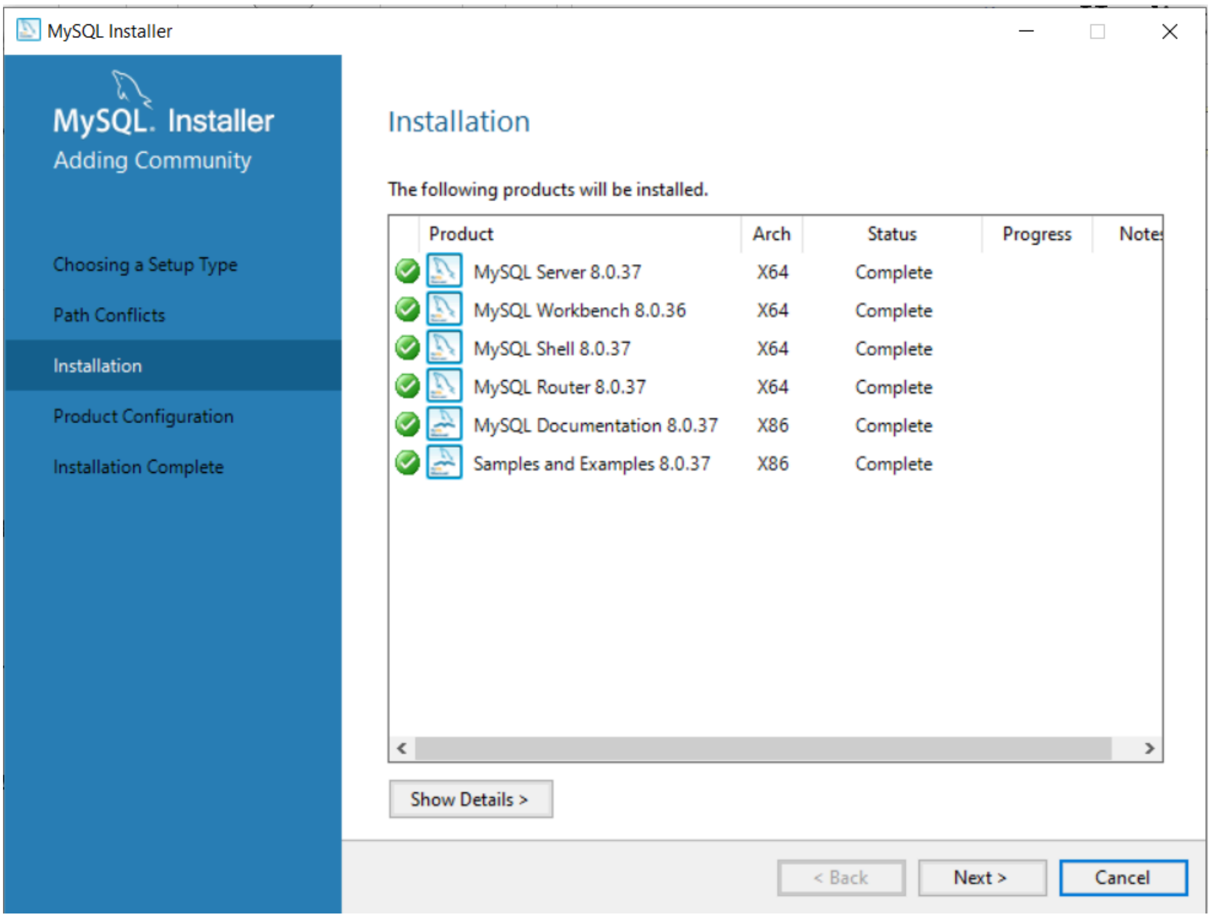
MySQL. Installer
Adding Community

Installation

The following products will be installed.

Product	Arch	Status	Progress	Note
MySQL Server 8.0.37	X64	Installing	89%	
MySQL Workbench 8.0.36	X64	Ready to Install		
MySQL Shell 8.0.37	X64	Ready to Install		
MySQL Router 8.0.37	X64	Ready to Install		
MySQL Documentation 8.0.37	X86	Ready to Install		
Samples and Examples 8.0.37	X86	Ready to Install		

Next

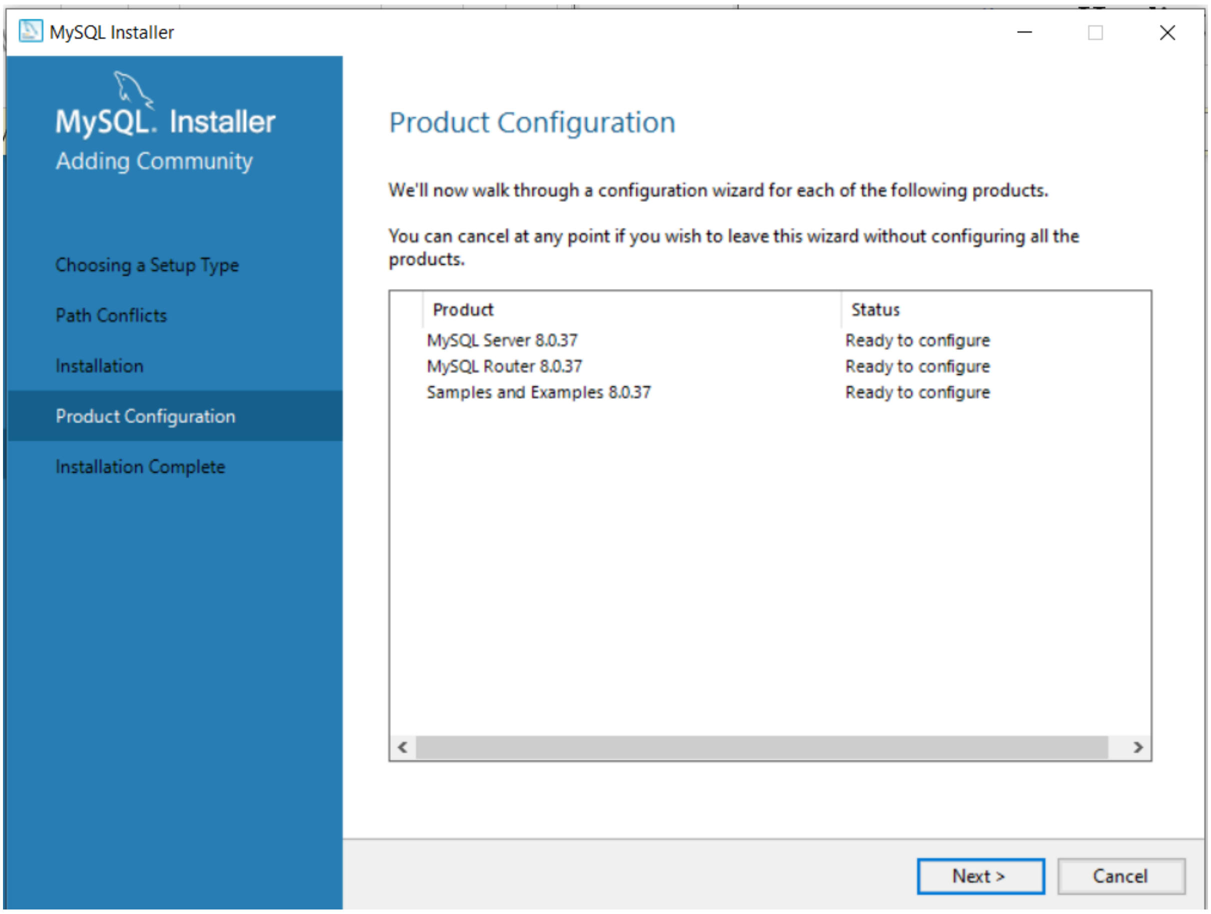


Installation

The following products will be installed.

	Product	Arch	Status	Progress	Notes
✓	MySQL Server 8.0.37	X64	Complete		
✓	MySQL Workbench 8.0.36	X64	Complete		
✓	MySQL Shell 8.0.37	X64	Complete		
✓	MySQL Router 8.0.37	X64	Complete		
✓	MySQL Documentation 8.0.37	X86	Complete		
✓	Samples and Examples 8.0.37	X86	Complete		

Next



Product Configuration

We'll now walk through a configuration wizard for each of the following products.

You can cancel at any point if you wish to leave this wizard without configuring all the products.

Product	Status
MySQL Server 8.0.37	Ready to configure
MySQL Router 8.0.37	Ready to configure
Samples and Examples 8.0.37	Ready to configure

4. Product Selection:

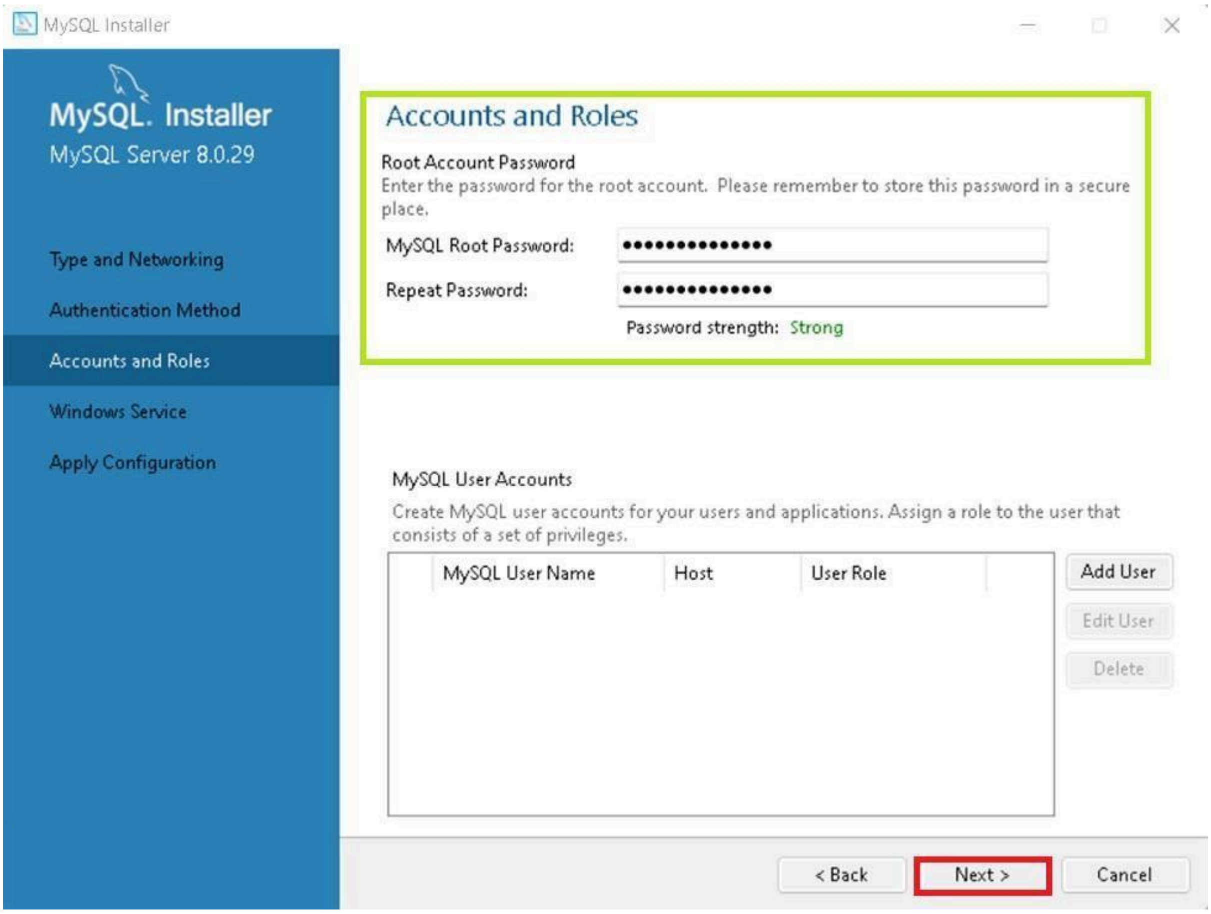
- By default, all products are selected. You can choose to deselect some components if you don't need them. Click "Next".

5. Configuration:

- Here, we'll use the MySQL Configurator tool for configuration. Leave the "Standard Configuration" option selected and click "Next".

6. Security Configuration:

- This is a crucial step. Set a strong password for the root user (the main administrative account). Enter and confirm the password. Optionally, you can enable "Check for updates" and choose the update method. Click "Next".



Accounts and Roles

Root Account Password

Enter the password for the root account. Please remember to store this password in a secure place.

MySQL Root Password: ••••••••••••••

Repeat Password: ••••••••••••••

Password strength: Strong

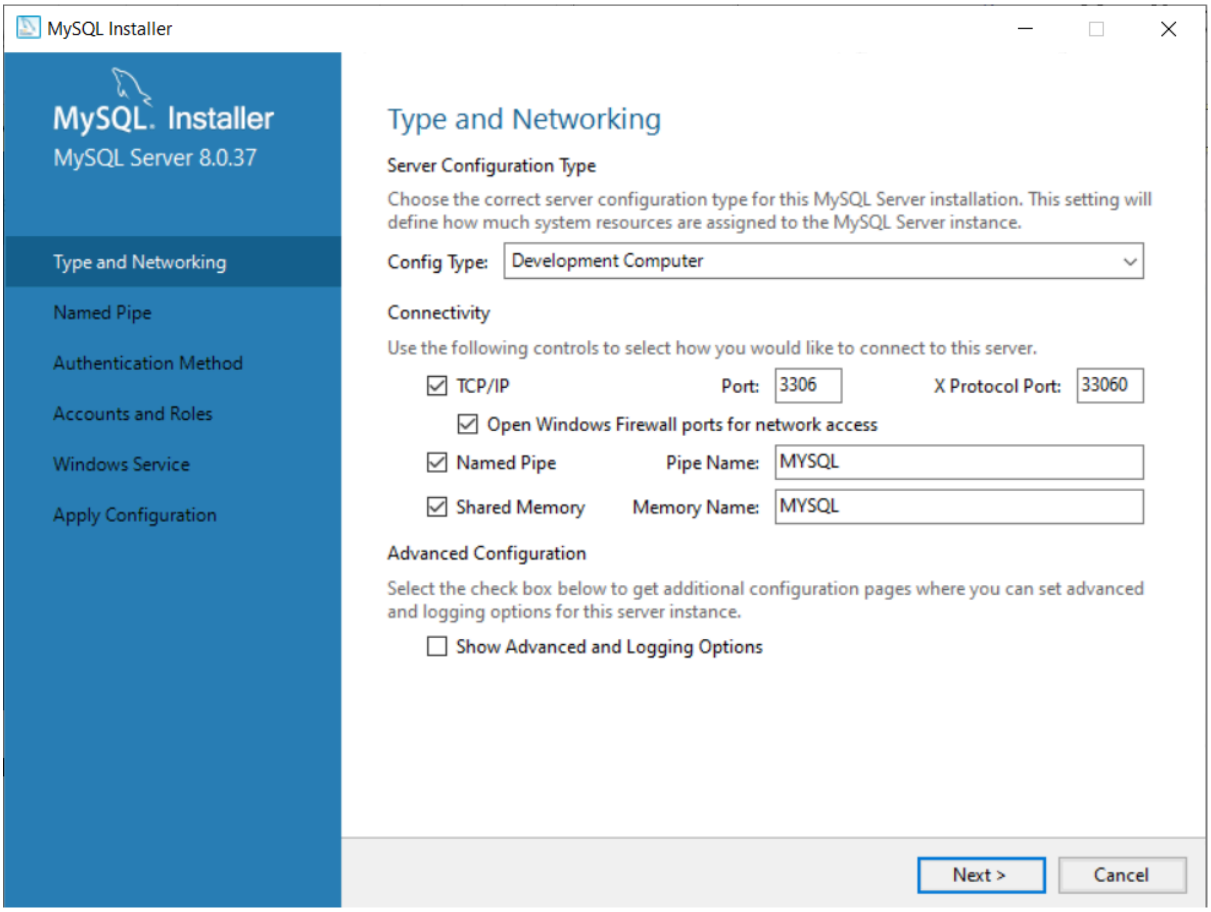
MySQL User Accounts

Create MySQL user accounts for your users and applications. Assign a role to the user that consists of a set of privileges.

MySQL User Name	Host	User Role

7. Port Configuration:

- The default port for MySQL is 3306. You can keep it or change it if needed (not recommended for beginners). Click "Next".



Type and Networking

Server Configuration Type

Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.

Config Type: Development Computer

Connectivity

Use the following controls to select how you would like to connect to this server.

☑ TCP/IP Port: 3306 X Protocol Port: 33060

☑ Open Windows Firewall ports for network access

☑ Named Pipe Pipe Name: MYSQL

☑ Shared Memory Memory Name: MYSQL

Advanced Configuration

Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.

□ Show Advanced and Logging Options

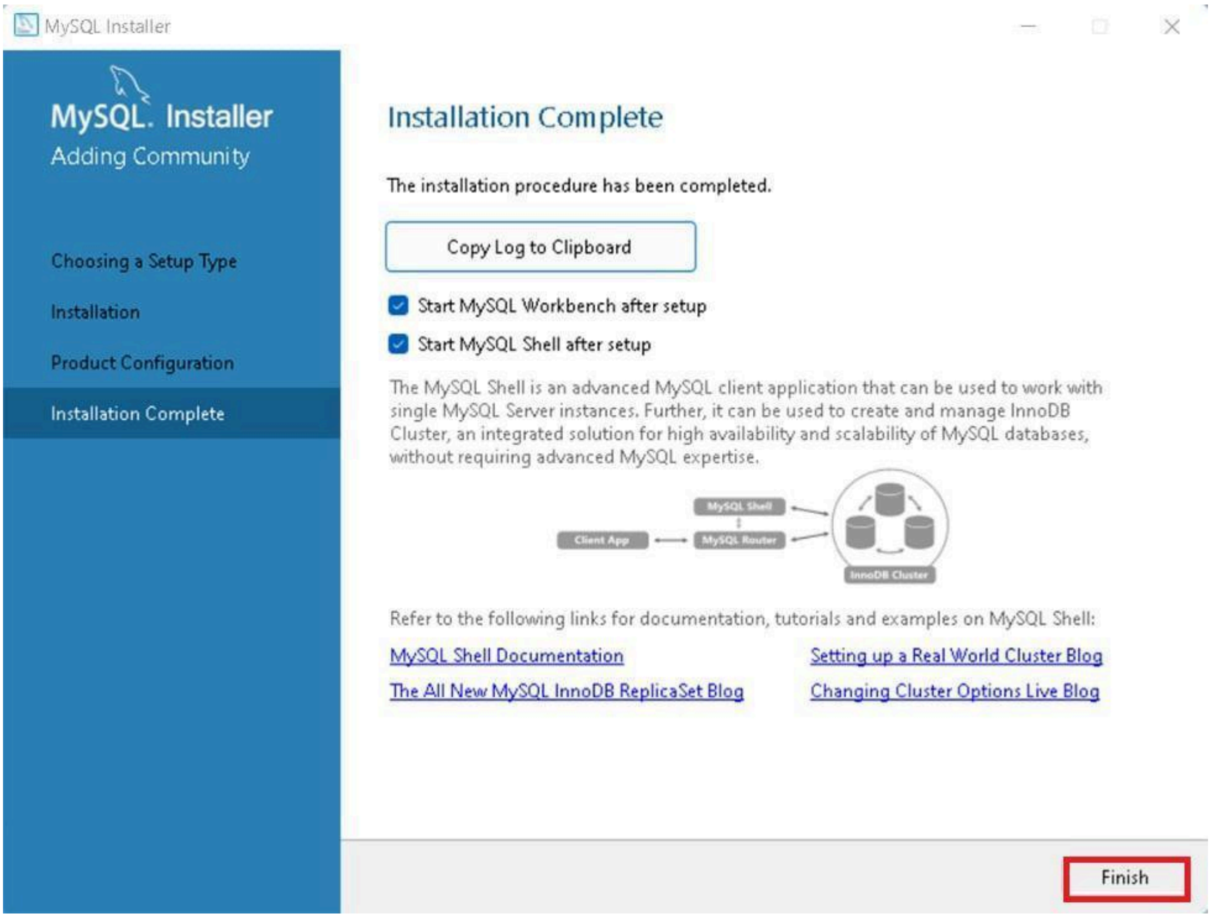
8. Advanced Options:

- This step is for experienced users. Leave the defaults unless you have specific requirements. Click "Next".

9. Installation:

- Review the summary of your configuration choices. Click "Execute" to begin the installation.

The installation process will take a few minutes. Once completed, you'll see a success message. Click "Finish" to close the installer.



Installation Complete

The installation procedure has been completed.

☑ Start MySQL Workbench after setup

☑ Start MySQL Shell after setup

The MySQL Shell is an advanced MySQL client application that can be used to work with single MySQL Server instances. Further, it can be used to create and manage InnoDB Cluster, an integrated solution for high availability and scalability of MySQL databases, without requiring advanced MySQL expertise.

Refer to the following links for documentation, tutorials and examples on MySQL Shell:

MySQL Shell Documentation

Setting up a Real World Cluster Blog

The All New MySQL InnoDB ReplicaSet Blog

Changing Cluster Options Live Blog

Additional Notes:

- After installation, you can start the MySQL service from the Windows Services window (search for "services.msc" in the Start menu).
- To connect to the MySQL server, you can use the MySQL command-line client or a graphical tool like MySQL Workbench.

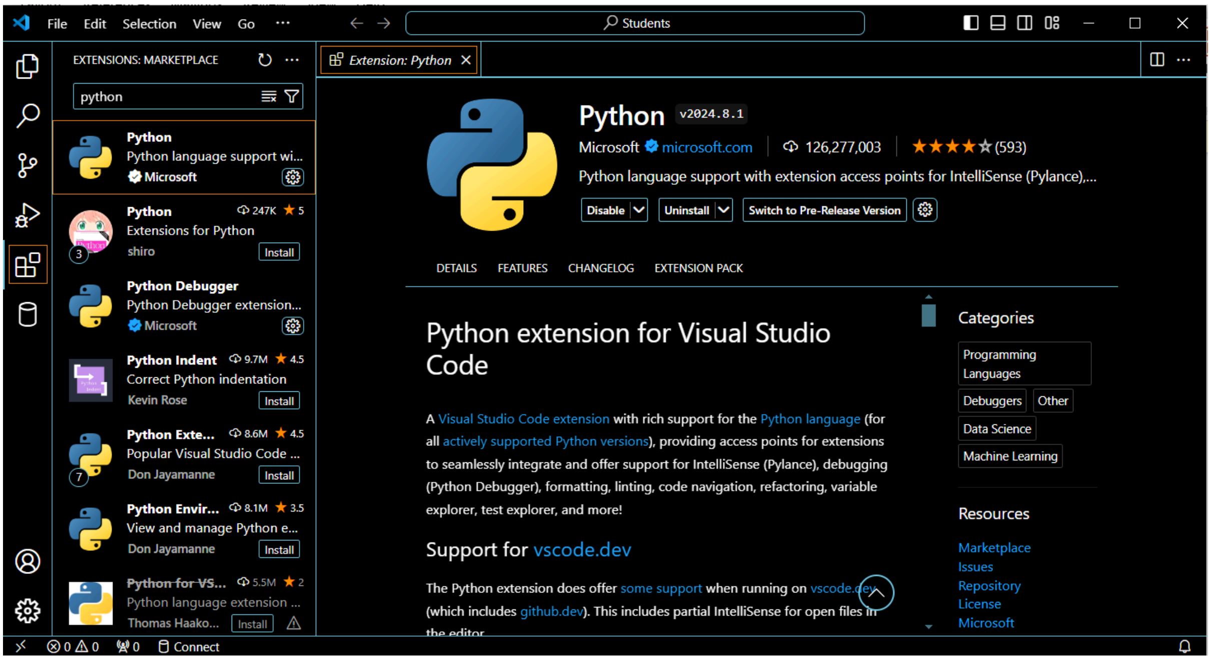
By following these steps and referring to the screenshots, you should be able to successfully download and install MySQL database on your Windows machine

MySQL for Windows is a user-friendly database system that helps manage and organize data efficiently. With a simple installation process, it provides a reliable platform for storing and retrieving information. Its compatibility makes it a Preferred option for businesses and developers looking for a strong Windows database solution.

7. **Explore Extensions and Plugins: Explore available extensions, plugins, and add-ons for your chosen text editor or IDE to enhance functionality, such as syntax highlighting, linting, code formatting, and version control integration.**

The objective of this assignment is to explore available extensions, plugins, and add-ons for Visual Studio Code (VS Code) to enhance its functionality. This includes finding and installing extensions for syntax highlighting, linting, code formatting, and version control integration.

- I launched Visual Studio Code from the Start menu.
- I opened the Extensions view by clicking on the Extensions icon in the Activity Bar on the side of the window or by using the keyboard shortcut Ctrl+Shift+X.
- **Python**: I searched for the "Python" extension by Microsoft and installed it. This extension provides rich support for Python, including syntax highlighting.



Python
Python language support wi...
Microsoft

Python 247K ★5
Extensions for Python
shiro Install

Python Debugger
Python Debugger extension...
Microsoft

Python Indent 9.7M ★4.5
Correct Python indentation
Kevin Rose Install

Python Exte... 8.6M ★4.5
Popular Visual Studio Code ...
Don Jayamanne Install

Python Envir... 8.1M ★3.5
View and manage Python e...
Don Jayamanne Install

~~Python for VS...~~ 5.5M ★2
Python language extension ...
Thomas Haako... Install

Python v2024.8.1
Microsoft microsoft.com | 126,277,003 | ★★★★☆ (593)
Python language support with extension access points for IntelliSense (Pylance),...

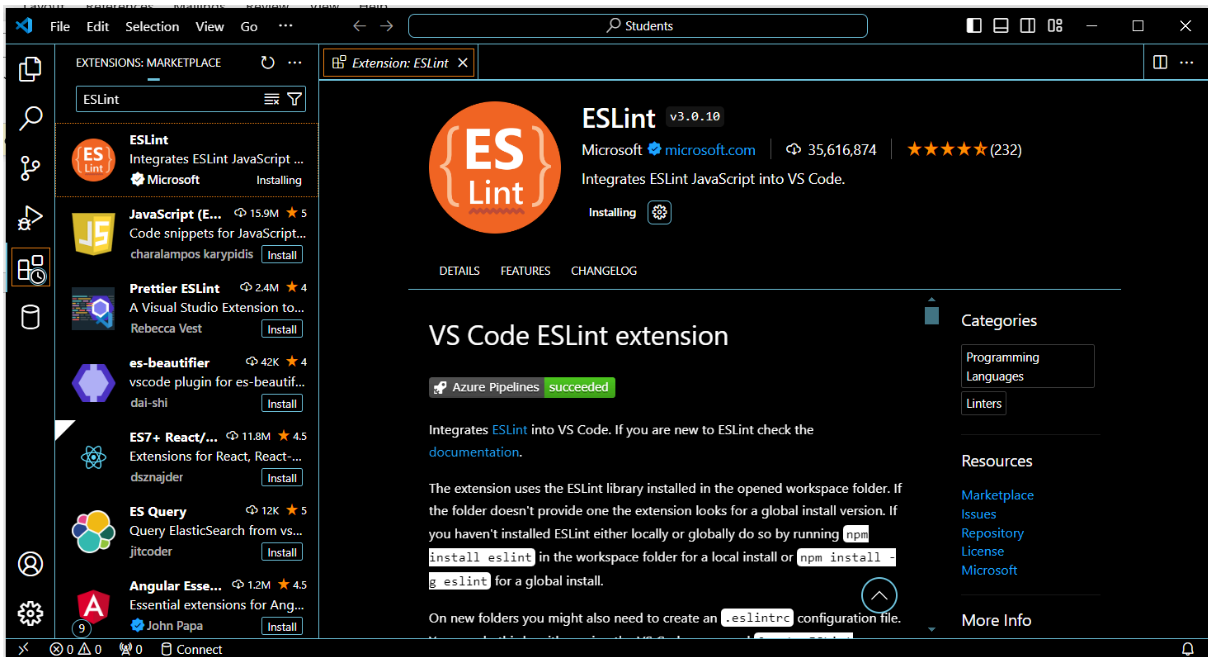
Python extension for Visual Studio Code

A Visual Studio Code extension with rich support for the Python language (for all actively supported Python versions), providing access points for extensions to seamlessly integrate and offer support for IntelliSense (Pylance), debugging (Python Debugger), formatting, linting, code navigation, refactoring, variable explorer, test explorer, and more!

Support for vscode.dev

The Python extension does offer some support when running on vscode.dev (which includes github.dev). This includes partial IntelliSense for open files in the editor.

- **JavaScript/TypeScript**: I searched for the "ESLint" extension for linting JavaScript and TypeScript and installed it.



ESLint
Integrates ESLint JavaScript ...
Microsoft — Installing

JavaScript (E... 15.9M ★ 5
Code snippets for JavaScript...
charalampos karypidis — Install

Prettier ESLint 2.4M ★ 4
A Visual Studio Extension to...
Rebecca Vest — Install

es-beautifier 42K ★ 4
vscode plugin for es-beautif...
dai-shi — Install

ES7+ React/... 11.8M ★ 4.5
Extensions for React, React-...
dsznajder — Install

ES Query 12K ★ 5
Query ElasticSearch from vs...
jitcoder — Install

Angular Esse... 1.2M ★ 4.5
Essential extensions for Ang...
John Papa — Install

Extension: ESLint

ESLint v3.0.10
Microsoft microsoft.com | 35,616,874 | ★★★★★ (232)
Integrates ESLint JavaScript into VS Code.
Installing

DETAILS FEATURES CHANGELOG

VS Code ESLint extension

Azure Pipelines succeeded

Integrates ESLint into VS Code. If you are new to ESLint check the documentation.

The extension uses the ESLint library installed in the opened workspace folder. If the folder doesn't provide one the extension looks for a global install version. If you haven't installed ESLint either locally or globally do so by running `npm install eslint` in the workspace folder for a local install or `npm install -g eslint` for a global install.

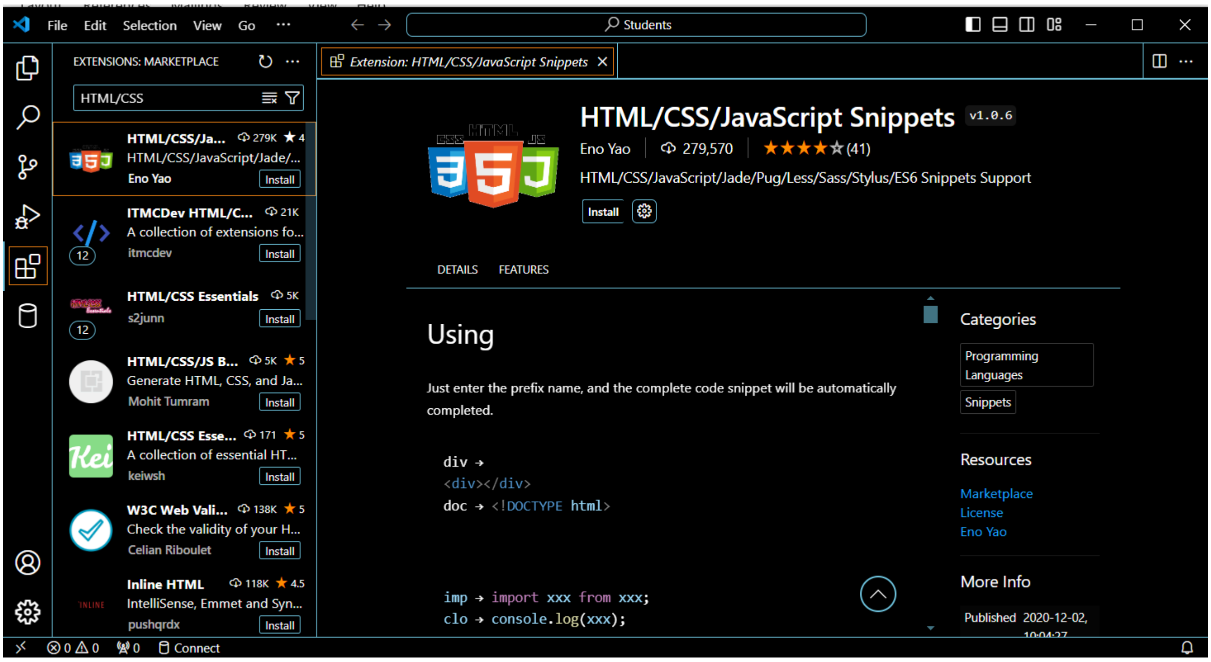
On new folders you might also need to create an `.eslintrc` configuration file.

Categories: Programming Languages, Linters

Resources: Marketplace, Issues, Repository, License, Microsoft

More Info

- **HTML/CSS**: I searched for the "HTML CSS Support" extension to enhance HTML and CSS syntax highlighting and installed it.



HTML/CSS/Ja... 279K ★ 4
HTML/CSS/JavaScript/Jade/...
Eno Yao — Install

ITMCDev HTML/C... 21K
A collection of extensions fo...
itmcdev — Install

HTML/CSS Essentials 5K
s2junn — Install

HTML/CSS/JS B... 5K ★ 5
Generate HTML, CSS, and Ja...
Mohit Tumram — Install

HTML/CSS Esse... 171 ★ 5
A collection of essential HT...
keiwsh — Install

W3C Web Vali... 138K ★ 5
Check the validity of your H...
Celian Riboulet — Install

Inline HTML 118K ★ 4.5
IntelliSense, Emmet and Syn...
pushqrdx — Install

Extension: HTML/CSS/JavaScript Snippets

HTML/CSS/JavaScript Snippets v1.0.6
Eno Yao | 279,570 | ★★★★☆ (41)
HTML/CSS/JavaScript/Jade/Pug/Less/Sass/Stylus/ES6 Snippets Support
Install

DETAILS FEATURES

Using

Just enter the prefix name, and the complete code snippet will be automatically completed.

```
div →
<div></div>
doc → <!DOCTYPE html>


imp → import xxx from xxx;
clo → console.log(xxx);
```

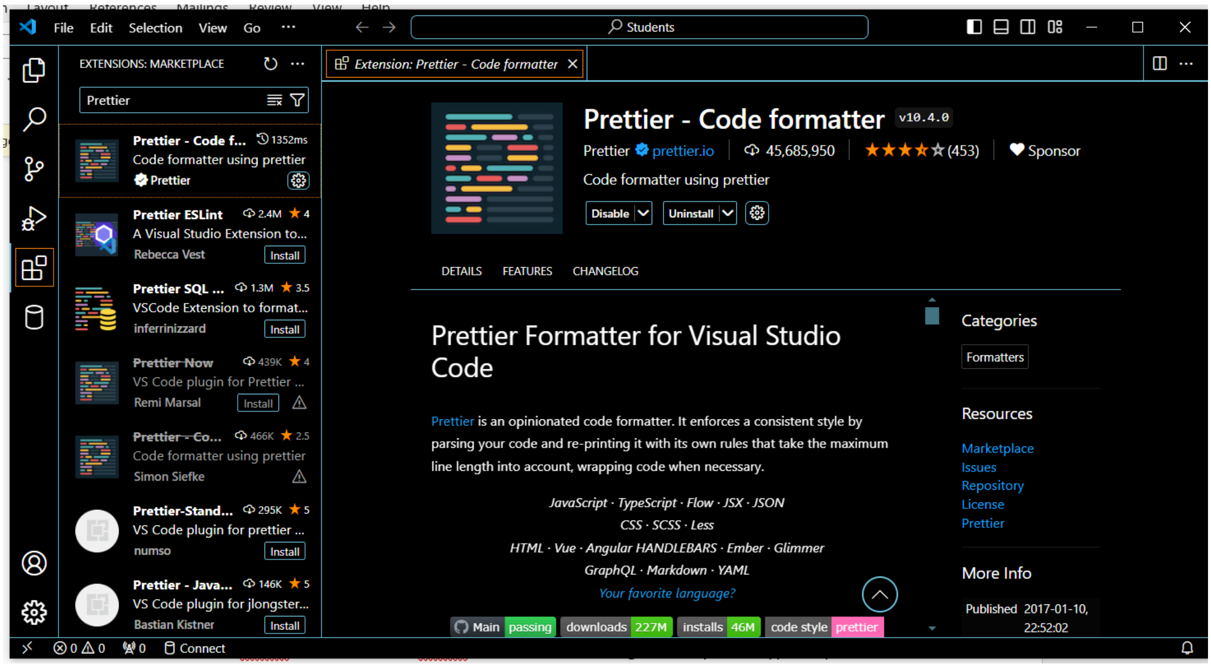
Categories: Programming Languages, Snippets

Resources: Marketplace, License, Eno Yao

More Info

Published 2020-12-02, 10:04:27

- **Prettier**: I installed the "Prettier - Code formatter" extension for consistent code formatting across various languages.



File Edit Selection View Go ···
Students
EXTENSIONS: MARKETPLACE
Prettier
Extension: Prettier - Code formatter
Disable
Uninstall
DETAILS FEATURES CHANGELOG
Connect

Prettier - Code f... 1352ms
Code formatter using prettier
Prettier

Prettier ESLint 2.4M ★ 4
A Visual Studio Extension to...
Rebecca Vest Install

Prettier SQL ... 1.3M ★ 3.5
VSCode Extension to format...
inferrinizzard Install

~~Prettier Now~~ 439K ★ 4
VS Code plugin for Prettier ...
Remi Marsal Install

~~Prettier - Co...~~ 466K ★ 2.5
Code formatter using prettier
Simon Siefke

Prettier-Stand... 295K ★ 5
VS Code plugin for prettier ...
numso Install

Prettier - Java... 146K ★ 5
VS Code plugin for jlongster...
Bastian Kistner Install

Prettier - Code formatter v10.4.0

Prettier prettier.io | 45,685,950 | ★★★★☆ (453) | Sponsor

Code formatter using prettier

Prettier Formatter for Visual Studio Code

Prettier is an opinionated code formatter. It enforces a consistent style by parsing your code and re-printing it with its own rules that take the maximum line length into account, wrapping code when necessary.

JavaScript · TypeScript · Flow · JSX · JSON
CSS · SCSS · Less
HTML · Vue · Angular HANDLEBARS · Ember · Glimmer
GraphQL · Markdown · YAML
Your favorite language?

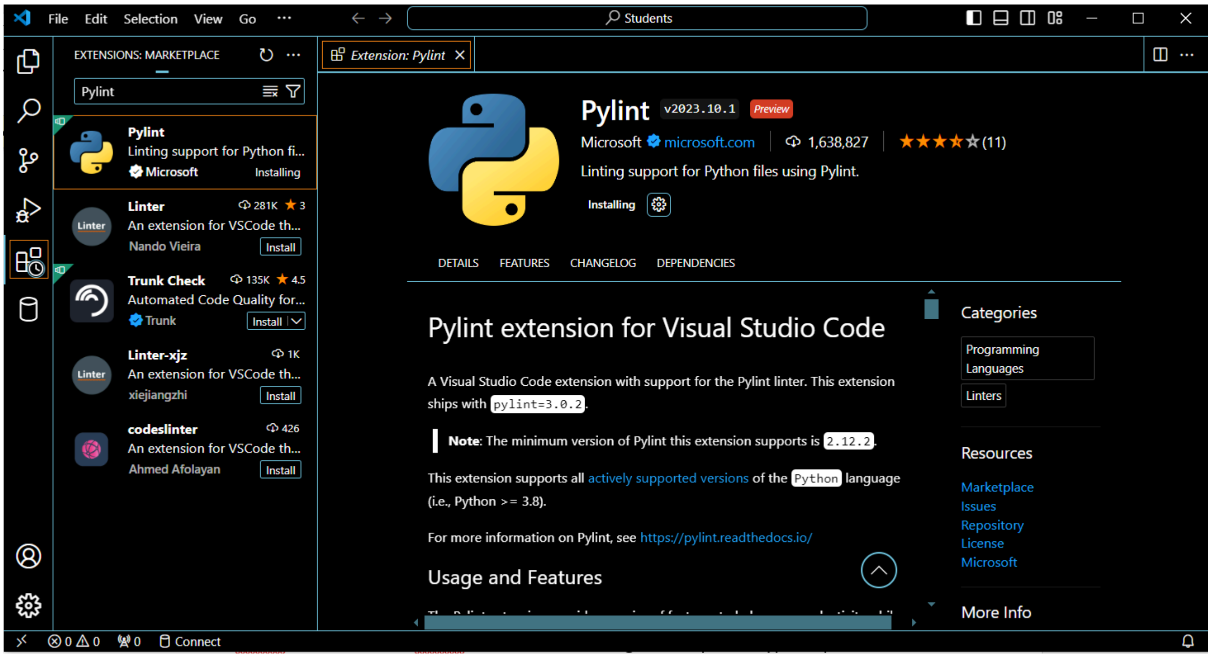
Main passing | downloads 227M | installs 46M | code style prettier

Categories
Formatters

Resources
Marketplace
Issues
Repository
License
Prettier

More Info
Published 2017-01-10, 22:52:02

- **Pylint**: For Python, I installed the "Python" extension which includes Pylint for linting Python code.



Pylint
Linting support for Python fi...
Microsoft Installing

Linter 281K ★ 3
An extension for VSCode th...
Nando Vieira Install

Trunk Check 135K ★ 4.5
Automated Code Quality for...
Trunk Install

Linter-xjz 1K
An extension for VSCode th...
xiejiangzhi Install

codeslinter 426
An extension for VSCode th...
Ahmed Afolayan Install

Pylint v2023.10.1 Preview

Microsoft microsoft.com | 1,638,827 | ★★★★☆ (11)

Linting support for Python files using Pylint.

Pylint extension for Visual Studio Code

A Visual Studio Code extension with support for the Pylint linter. This extension ships with `pylint=3.0.2`.

> **Note**: The minimum version of Pylint this extension supports is `2.12.2`.

This extension supports all actively supported versions of the `Python` language (i.e., Python >= 3.8).

For more information on Pylint, see https://pylint.readthedocs.io/

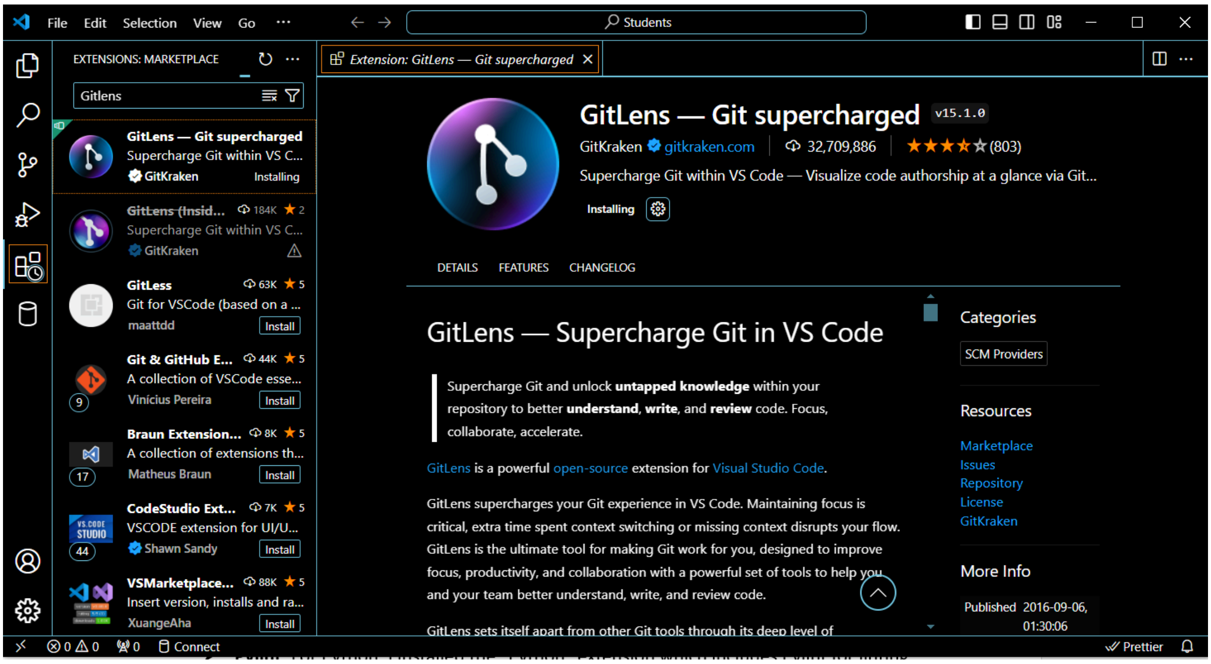
Usage and Features

Categories
Programming Languages
Linters

Resources
Marketplace
Issues
Repository
License
Microsoft

More Info

- **GitLens**: I installed the "GitLens" extension to enhance Git capabilities in VS Code, including viewing detailed Git history and changes.



File Edit Selection View Go ···
Students
EXTENSIONS: MARKETPLACE
Gitlens
Extension: GitLens — Git supercharged

GitLens — Git supercharged
Supercharge Git within VS C...
GitKraken Installing

GitLens (Insid... 184K ★ 2
Supercharge Git within VS C...
GitKraken

GitLess 63K ★ 5
Git for VSCode (based on a ...
maattdd Install

Git & GitHub E... 44K ★ 5
A collection of VSCode esse...
Vinicius Pereira Install

Braun Extension... 8K ★ 5
A collection of extensions th...
Matheus Braun Install

CodeStudio Ext... 7K ★ 5
VSCODE extension for UI/U...
Shawn Sandy Install

VSMarketplace... 88K ★ 5
Insert version, installs and ra...
XuangeAha Install

GitLens — Git supercharged v15.1.0
GitKraken gitkraken.com | 32,709,886 | ★★★★☆ (803)
Supercharge Git within VS Code — Visualize code authorship at a glance via Git...
Installing

GitLens — Supercharge Git in VS Code

> Supercharge Git and unlock **untapped knowledge** within your repository to better **understand**, **write**, and **review** code. Focus, collaborate, accelerate.

GitLens is a powerful open-source extension for Visual Studio Code.

GitLens supercharges your Git experience in VS Code. Maintaining focus is critical, extra time spent context switching or missing context disrupts your flow. GitLens is the ultimate tool for making Git work for you, designed to improve focus, productivity, and collaboration with a powerful set of tools to help you and your team better understand, write, and review code.

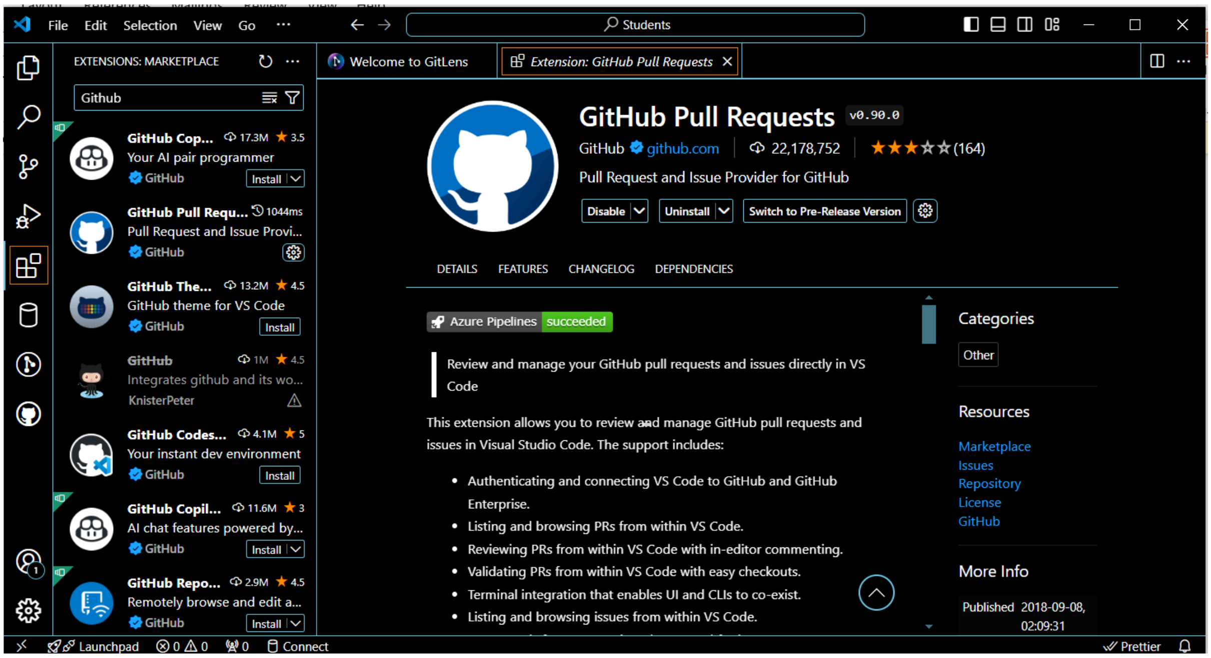
GitLens sets itself apart from other Git tools through its deep level of

Categories
SCM Providers

Resources
Marketplace
Issues
Repository
License
GitKraken

More Info
Published 2016-09-06, 01:30:06

- **GitHub**: I installed the "GitHub Pull Requests and Issues" extension to manage GitHub pull requests and issues directly from VS Code.



File Edit Selection View Go ···
Students
EXTENSIONS: MARKETPLACE
Github
Welcome to GitLens
Extension: GitHub Pull Requests

GitHub Cop... 17.3M ★ 3.5
Your AI pair programmer
GitHub Install

GitHub Pull Requ... 1044ms
Pull Request and Issue Provi...
GitHub

GitHub The... 13.2M ★ 4.5
GitHub theme for VS Code
GitHub Install

Github 1M ★ 4.5
Integrates github and its wo...
KnisterPeter

GitHub Codes... 4.1M ★ 5
Your instant dev environment
GitHub Install

GitHub Copil... 11.6M ★ 3
AI chat features powered by...
GitHub Install

GitHub Repo... 2.9M ★ 4.5
Remotely browse and edit a...
GitHub Install

GitHub Pull Requests v0.90.0
GitHub github.com | 22,178,752 | ★★★☆☆ (164)
Pull Request and Issue Provider for GitHub

Disable Uninstall Switch to Pre-Release Version
DETAILS FEATURES CHANGELOG DEPENDENCIES
Azure Pipelines succeeded

> Review and manage your GitHub pull requests and issues directly in VS Code

This extension allows you to review and manage GitHub pull requests and issues in Visual Studio Code. The support includes:

- Authenticating and connecting VS Code to GitHub and GitHub Enterprise.
- Listing and browsing PRs from within VS Code.
- Reviewing PRs from within VS Code with in-editor commenting.
- Validating PRs from within VS Code with easy checkouts.
- Terminal integration that enables UI and CLIs to co-exist.
- Listing and browsing issues from within VS Code.

Categories
Other

Resources
Marketplace
Issues
Repository
License
GitHub

More Info
Published 2018-09-08, 02:09:31

References:

https://www.geeksforgeeks.org/

https://www.freecodecamp.org/

https://github.com/

https://gemini.google.com/

https://chatgpt.com/

https://www.mysql.com/

https://www.youtube.com/