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Framework Notes 01/22- Lesson 1

Topic 1- GIT

1. **GIT- Git is a program that connects your device to the online cloud base storage (GitHub) that can be accessed by using CMD**

Git is software that runs locally. Your files and their history are stored on your computer. You can also use online hosts (such as [GitHub](https://github.com/) or [Bitbucket](https://bitbucket.org/)) to store a copy of the files and their revision history. A centrally located place where you can upload your changes and download changes from others enables collaboration with other developers more easily. Git can automatically merge the changes, so two people can even work on different parts of the same file and later merge those changes without losing each other’s work.

(Source: <https://www.nobledesktop.com/learn/git/what-is-git>)

1. **GitHub.com (Purpose of using)- It is an online cloud base storage. You can push code to an online platform. The code is stored on online platforms such as Git Hub. (The purpose of storing files is very similar to google drive)**

**As a QA you can write any type of code and push it to Git Hub.**

GitHub is an online software development platform. It's used for storing, tracking, and collaborating on software projects.

It makes it easy for developers to share code files and collaborate with fellow developers on open-source projects. GitHub also serves as a social networking site where developers can openly network, collaborate, and pitch their work.

(Source: <https://blog.hubspot.com/website/what-is-github-used-for?hubs_content=blog.hubspot.com%2Fwebsite%2Fwhat-is-github-used-for&hubs_content-cta=What%20is%20GitHub%3F>)

**3.GitLab and BitBucket serve the same purpose as GitHUB – they are both online cloud based storage platforms**

GitLab is **an open source code repository and collaborative software development platform for large DevOps and DevSecOps projects**.

(Source: <https://www.techtarget.com/whatis/definition/GitLab>)

Bitbucket Cloud is **a Git-based code and CI/CD tool optimized for teams using Jira**.

(Source: <https://bitbucket.org/product>)

**5. Intelligent (Intellij IDEA) – is a IDE to write your code.**

Relationship- 1. Write code in Intellij IDE 2. Use Git Bash 3. Push code from GitBash to GitHub

**6. If you are a MAC user, install homebrew first. Homebrew allows you to install everything. You can set commands such as “Homebrew install this”.**

Program Installation - Use the websites below to install the respective programs

1. GitHub

<https://github.com/>

Create an account using a valid email address and password

Follow the instructions to verify your account

Store important information in a secure place

1. Git bash

<https://git-scm.com/download/win>

Download [**64-bit Git for Windows Setup**](https://github.com/git-for-windows/git/releases/download/v2.39.1.windows.1/Git-2.39.1-64-bit.exe)**.**

**Keep all default selection and install**

1. Intellij IDE

<https://www.jetbrains.com/idea/download/#section=windows>

Make sure Windows is selected by default

Make sure to choose - IntelliJ IDEA Community Edition (Free version)

Click on the download button (black)

Keep all default settings and download.