GIT AND GITHUB:

GLOBAL INFORMATION TRACKER:

GITHUB:

* GitHub is a version controller and service.
* It is used in software companies.
* It is helpful for a person to handle on multiple projects.
* GitHub helps everyone to edit and improve the project ideas.
* It is a cloud-based platform built around git.
* GitHub is centralized repository.

GIT:

* Git tracks all the changes made on GitHub and software.
* It is a free, high-quality distributed version control system.
* Makes modifications in source code in software development.
* Git helps us to find that you are creating, deleting, updating a code.

MASTER BRANCH NEW BRANCH

TESTING

Create a pull request and merge the code if it is ok.

UAT-user acceptance testing.

SDLC-software development life cycle.

| **S.No.** | **Git** | **GitHub** |
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| 1. | Git is a software. | GitHub is a service. |
| 2. | Git is a command-line tool | GitHub is a graphical user interface |
| 3. | Git is installed locally on the system | GitHub is hosted on the web |
| 4. | Git is maintained by linux. | GitHub is maintained by Microsoft. |
| 5. | Git is focused on version control and code sharing. | GitHub is focused on centralized source code hosting. |
| 6. | Git is a version control system to manage source code history. | GitHub is a hosting service for Git repositories. |
| 7. | Git was first released in 2005. | GitHub was launched in 2008. |
| 8. | Git has no user management feature. | GitHub has a built-in user management feature. |
| 9. | Git is open-source licensed. | GitHub includes a free-tier and pay-for-use tier. |
| 10. | Git has minimal external tool configuration. | GitHub has an active marketplace for tool integration. |
| 11. | Git provides a Desktop interface named Git Gui. | GitHub provides a Desktop interface named GitHub Desktop. |
| 12. | Git competes with CVS, Subversion, Mercurial, etc. | GitHub competes with GitLab, Bit Bucket, AWS Code Commit, Azure DevOps Server, etc. |

SOME COMMANDS:

Git config –global user.name

Git config –global user.email

Demo clone <https://github.com/NagamManaswini/Manaswini.git>

Cd command is useful to change directory.

Dir full will come like what we uploaded.

Git status-command

Git add -A, git commit -m(to add one file use “git added one file”, git push origin main.

Git pull -helps to update the file from changes.

Git log – all transactions we can see.

Git clone – copies the latest version.