

GIT ASSIGNMENT

Assignment :2(a)

Create version control account on GitHub and using Git Commands to Create a repository and push your code on github.

What is Git?

- Git is a distributed version control system (DVCS) used for tracking changes in source code during software development.
- It helps developers collaborate efficiently, maintain code history, and manage different versions of a project.
- Key Features:
 - o Distributed System
 - o Version Control
 - o Branching and Merging

What is GitHub?

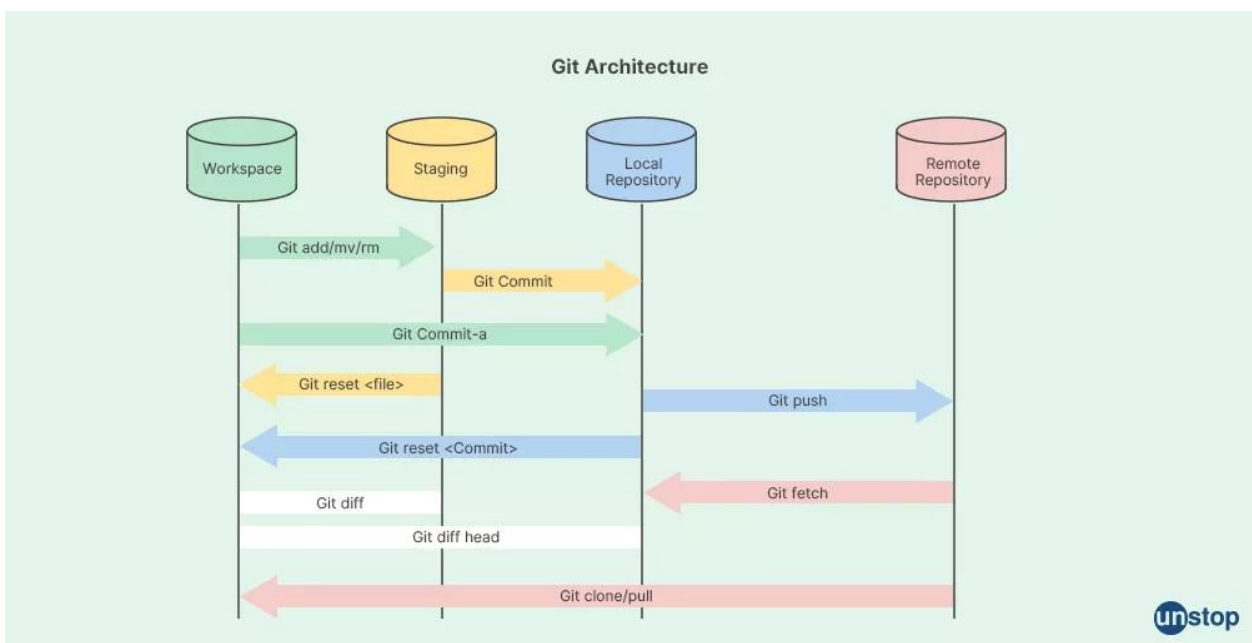
- GitHub is a cloud-based platform for version control and collaboration, built on Git.
- It allows developers to store, manage, and share their code while working on projects with others.
- Key Features
 - o Repository Hosting
 - o Security & Access Control
 - o Pull Requests & Code Review

Difference between Git And Github:

Feature	Git	GitHub
Definition	A version control system (VCS) used to track changes in code.	A cloud-based platform for hosting and managing Git repositories.
Purpose	Helps developers track	Provides a remote storage

	code changes, collaborate, and manage versions.	space for Git repositories, enabling collaboration.
Installation	Needs to be installed locally on your computer.	Web-based service; no installation required.
Access	Works offline	Requires the internet to access repositories online
Commands	Uses commands like <code>git init</code> , <code>git add</code> , <code>git commit</code> , <code>git push</code> , etc	Provides UI-based controls and Git-based commands like <code>git push origin main</code>

Git Architecture:-



Components of Git Architecture:

1. Working Directory

- Stores the current version of your project files.
- Any modifications made here are untracked until staged.

2. Staging Area (Index)

- Holds changes before committing to the repository.
- Allows selective commits by staging specific files.

3. Local Repository

- A hidden .git folder storing all commit history.
- Enables version control even without internet access.

4. Remote Repository

- A shared Git repository hosted on platforms like GitHub.
- Used for collaboration and code sharing among developers.

GIT Commands

rohithire2 / WAD

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

WAD Public

main 1 Branch 0 Tags

rohithire2 Delete assign-2 directory 5cce1d6 - 4 minutes ago 3 Commits

Git.pdf Add files via upload 12 minutes ago

README

Add a README

Add a README

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Snipping Tool

Screenshot copied to clipboard

Automatically saved to screenshots

Mark-up and save

Push(After)

rohithire2 / WAD

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Files

main

Go to file

assign-1b

iii.html

iii2.html

script.js

users.js

Git.pdf

WAD / assign-1b

Add file ...

rohithire2 Add files via upload 5604312 - now History

Name	Last commit message	Last commit date
..		
iii.html	Add files via upload	now
iii2.html	Add files via upload	now
script.js	Add files via upload	now
users.js	Add files via upload	now

Pull(After)

Name	Date modified	Type	Size
iii	12/02/2025 19:33	Microsoft Edge HTM...	1 KB
iii2	12/02/2025 19:33	Microsoft Edge HTM...	1 KB
new_doc	12/02/2025 20:14	File	1 KB
script	12/02/2025 19:50	JavaScript File	1 KB
users	12/02/2025 19:50	JavaScript File	1 KB

MINGW64:/d/New Ajaxfolder

```
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git pull origin master
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 921 bytes | 51.00 KiB/s, done.
From https://github.com/adityaam2904/wad
 * branch      master      -> FETCH_HEAD
    21a6df1..4e17c17  master -> origin/master
Updating 21a6df1..4e17c17
Fast-forward
 new_doc | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 new_doc

mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$
```