

# 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?

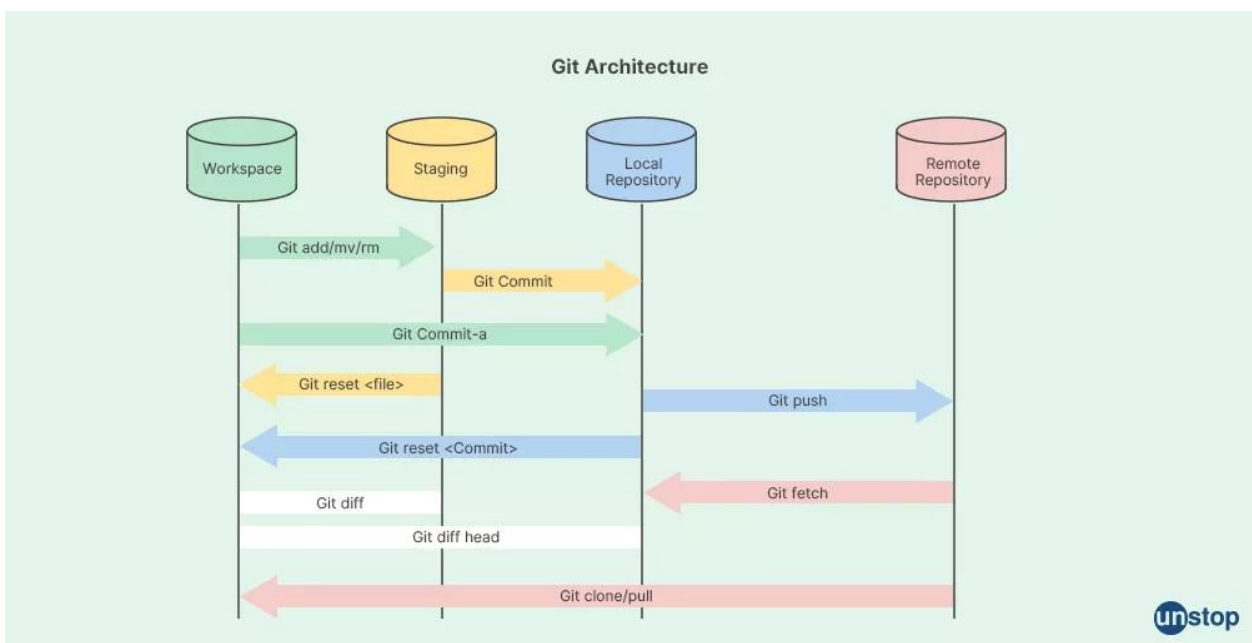
- GitHub is a cloud-based platform for version control and collaboration, built on Git.
- It allows developers to store, manage, and share their code while working on projects with others.
- Key Features
  - o Repository Hosting
  - o Security & Access Control
  - o Pull Requests & Code Review

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

<> CodeIssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

WAD- /

Drag additional files here to add them to your repository

Or [choose your files](#)

/WAD\_P1/list.html

/WAD\_P1/registration.html

/WAD\_P1/script.js

/WAD\_P1/users.js

## Push(After)

abhishekbaste / WAD-

Q Type [Z] to search

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<> CodeIssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

Files

main + Q

Go to file t

WAD\_P1

- list.html
- registration.html
- script.js
- users.js

WAD- / WAD\_P1 /

Add file ...

abhishekbaste Add files via upload

22f335e · 1 minute ago History

Name	Last commit message	Last commit date
..		
list.html	Add files via upload	1 minute ago
registration.html	Add files via upload	1 minute ago
script.js	Add files via upload	1 minute ago
users.js	Add files via upload	1 minute ago

## 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)
$
```