

# **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?

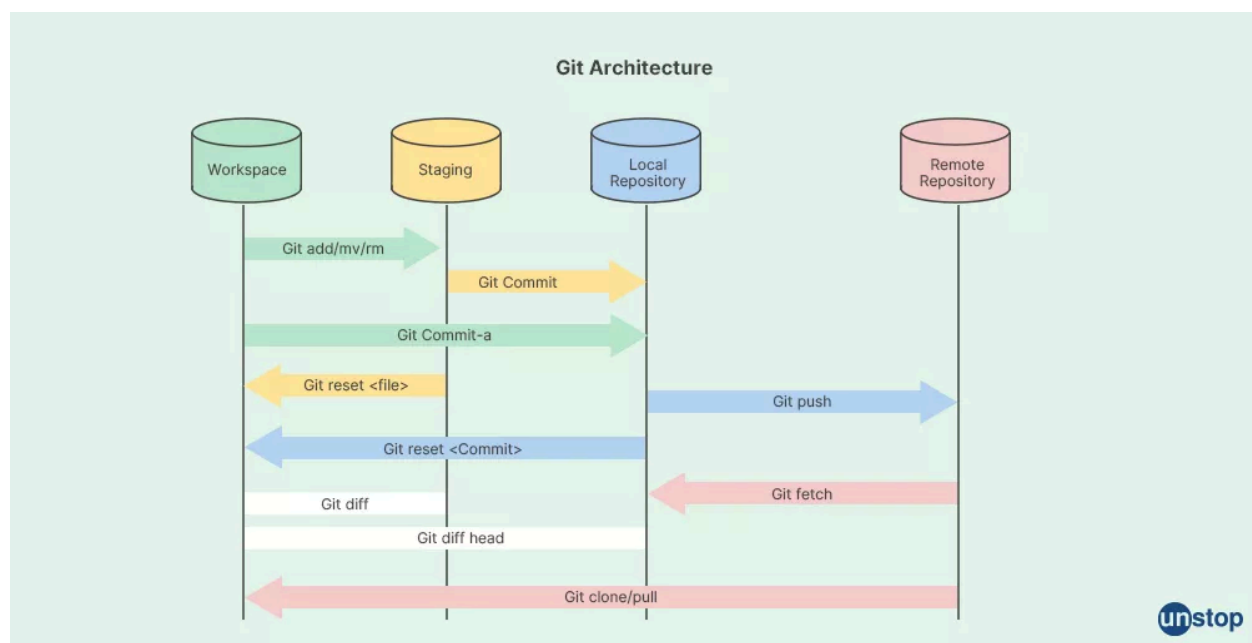
- GitHub is a cloud-based platform for version control and collaboration, built on Git.
- It allows developers to store, manage, and share their code while working on projects with others.
- Key Features
  - o Repository Hosting
  - o Security & Access Control
  - o Pull Requests & Code Review

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

```
MINGW64/d/New Ajaxfolder
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git init
Reinitialized existing Git repository in D:/New Ajaxfolder/.git/
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git add *
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git commit -m "Assignment -2 wad"
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git remote add origin https://github.com/adityaam2904/wad
error: remote origin already exists.
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$ git push -u origin master
branch 'master' set up to track 'origin/master'.
Everything up-to-date
mange@Mangesh MINGW64 /d/New Ajaxfolder (master)
$
```

## Push (Before)

adityaam2904 / Wad

Q Type [f] to search

+

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Wad

Public

Pin

Unwatch 1

Fork 0

Star 0

Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Get started with GitHub Copilot

Add collaborators to this repository

Search for people using their GitHub username or email address.

Invite collaborators

Quick setup — if you've done this kind of thing before

Set up in Desktop

 or 

HTTPS

SSH

https://github.com/adityaam2904/Wad.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

## Push(After)

adityaam2904 / Wad

Q Type [f] to search

+

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Wad

Public

Pin

Unwatch 1

Fork 0

Star 0

master

1 Branch

0 Tags

Go to file

Add file

<> Code

adityaam2904

Deleted unnecessary files

21a6df1 · 7 minutes ago

6 Commits

iii.html	New Ajax Assignment	31 minutes ago
iii2.html	New Ajax Assignment	31 minutes ago
script.js	New File	15 minutes ago
users.js	New File	15 minutes ago

README

About

No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Pull(Before)

adityaam2904 / Wad

Type to search

CodeIssuesPull requestsActionsProjectsWikiSecurityInsightsSettings

master

Wad /

Go to file

Add file

...

adityaam2904 Create new\_doc4e17c17 · nowHistory

Name	Last commit message	Last commit date
iii.html	New Ajax Assignment	38 minutes ago
iii2.html	New Ajax Assignment	38 minutes ago
new_doc	Create new_doc	now
script.js	New File	21 minutes ago
users.js	New File	21 minutes 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
    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)
$
```