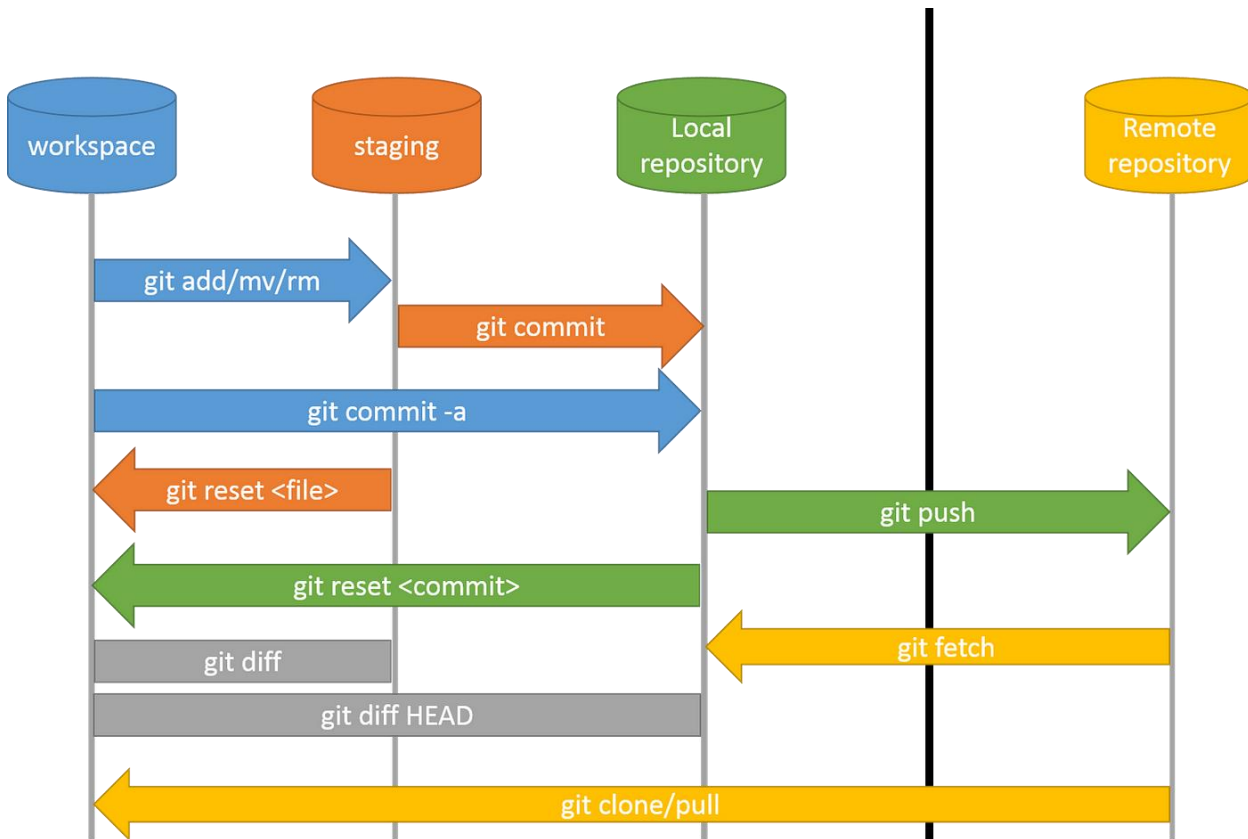


Git Architecture



Four-stage architecture—Working Directory, Staging Area (Index), Local repository and Remote Repository—provides a robust system for version control. Developers work in the Working Directory, stage changes in the Index, and then commit those changes to the Repository, which stores the project's complete history. This structure allows for granular control over changes, supports branching and merging for parallel development, and facilitates collaboration through remote repositories. Ultimately, Git's design enables efficient tracking, management, and sharing of code.

```
MINGW64/c/Users/Admin/Desktop/WAD_git
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git
$ git config --global user.name "Vaishnavi_Ghuge"
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git
$ git config --global user.email "vaishnavighuge684@gmail.com"
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git
$ git init
Initialized empty Git repository in C:/Users/Admin/Desktop/WAD_git/.git/
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        github.html

nothing added to commit but untracked files present (use "git add" to track)
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git add .
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
        new file:   github.html

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git commit -m "New file added"
[master (root-commit) ad4c725] New file added
1 file changed, 11 insertions(+)
create mode 100644 github.html
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git status
On branch master
nothing to commit, working tree clean
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git push origin main
```

```
MINGW64/c/Users/Admin/Desktop/WAD_git
On branch master
nothing to commit, working tree clean
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git push origin main
error: src refspec main does not match any
error: failed to push some refs to 'origin'
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git push origin master
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git diff main
fatal: ambiguous argument 'main': unknown revision or path not in the working tree.
Use '--' to separate paths from revisions, like this:
'git <command> [<revision>...] -- [<file>...]'
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git remote add origin https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git remote -v
origin https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git (fetch)
origin https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git (push)
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git branch
* master
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git branch -M main
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (main)
$ git push origin main
fatal: unable to access 'https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git/': Could not resolve host: github.com
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (main)
$ git branch
* main
Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (main)
$ git status
```

```
MINGW64/c/Users/Admin/Desktop/WAD_git

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (main)
$ git status
On branch main
nothing to commit, working tree clean

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (main)
$ git checkout -d master
fatal: git checkout: --detach does not take a path argument 'master'

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (main)
$ git checkout -b master
Switched to a new branch 'master'

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git merge main
Already up to date.

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git pull origin main
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 895 bytes | 35.00 KiB/s, done.
From https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment
  * branch      main      -> FETCH_HEAD
  * [new branch] main      -> origin/main
fatal: refusing to merge unrelated histories

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git push origin main
To https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git
! [rejected]        main -> main (non-Fast-Forward)
error: failed to push some refs to 'https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git'
hint: Updates were rejected because a pushed branch tip is behind its remote
hint: counterpart. If you want to integrate the remote changes, use 'git pull'
hint: before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git push origin master
fatal: unable to access 'https://github.com/vaishnavi1211-sudo/WAD_TE_Assignment.git/': Could not resolve host: github.com

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/WAD_git (master)
$ git checkout -d master
git: 'checkout' is not a git command. See 'git --help'.

The most similar command is
  checkout
```

```
MINGW64/c/Users/Admin/Desktop/git_ass/WAD_Assignments

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$ git init
Reinitialized existing Git repository in C:/Users/Admin/Desktop/git_ass/WAD_Assignments/.git/

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$ git add .

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$ git commit -m "change files"
[main ece710d] change files
7 files changed, 358 insertions(+)
create mode 100644 MVP_Logo.jpeg
create mode 100644 ajax1.html
create mode 100644 ajax2.html
create mode 100644 index.html
create mode 100644 store.js
create mode 100644 style.css
create mode 100644 view.js

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$ git push origin main
fatal: unable to access 'https://github.com/vaishnavi1211-sudo/WAD_Assignments.git/': Could not resolve host: github.com

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
(use 'git push' to publish your local commits)

nothing to commit, working tree clean

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$ git push
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Delta compression using up to 4 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (9/9), 97.25 KiB | 10.86 MiB/s, done.
Total 9 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/vaishnavi1211-sudo/WAD_Assignments.git
   d84f426..ece710d  main -> main

Admin@DESKTOP-M30I4HD MINGW64 ~/Desktop/git_ass/WAD_Assignments (main)
$
```