

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 free, open-source version control system (VCS) that helps you track changes to your code and projects
- It was created by Linus Torvalds in 2005, and has been maintained by Junio Hamano since then.
- Features:
 1. Creates backups
 2. Supports non-linear development
 3. Supports collaboration

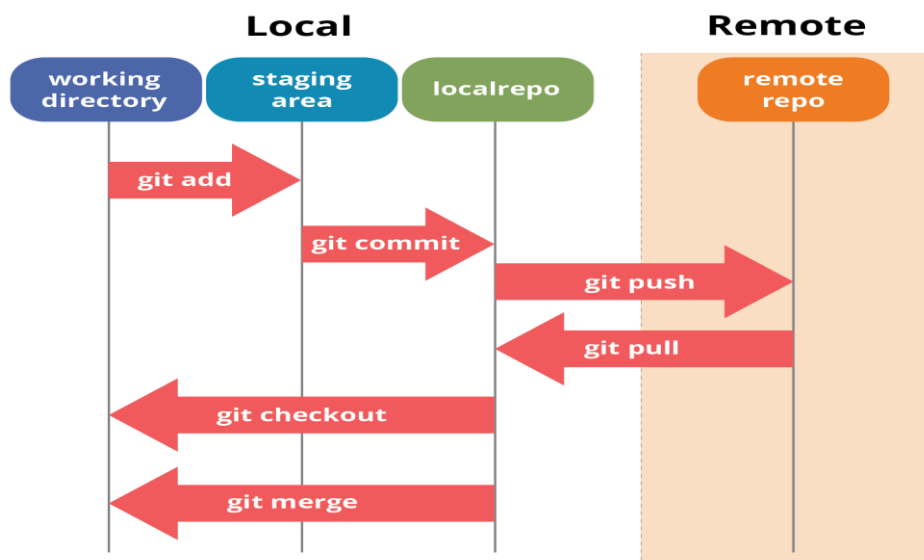
What is GitHub?

- GitHub is a website that lets developers store, manage, and share their code.
- GitHub was founded in 2008 and has been a subsidiary of Microsoft since 2018. Microsoft acquired GitHub for \$7.5 billion
- GitHub also offers tools for collaboration, such as bug tracking, task management.

Difference of Git And GitHub :

Git	GitHub
It is a version control system.	It is a cloud platform for hosting Git repositories.
Works locally to track code changes.	Stores and manages Git repositories online.
Does not require the internet to work.	Requires the internet to access repositories.
Helps in managing different versions of code.	Allows collaboration, issue tracking, and project management.
Open-source and free to use.	Owned by Microsoft, offers free and paid plans.

Git Architecture:

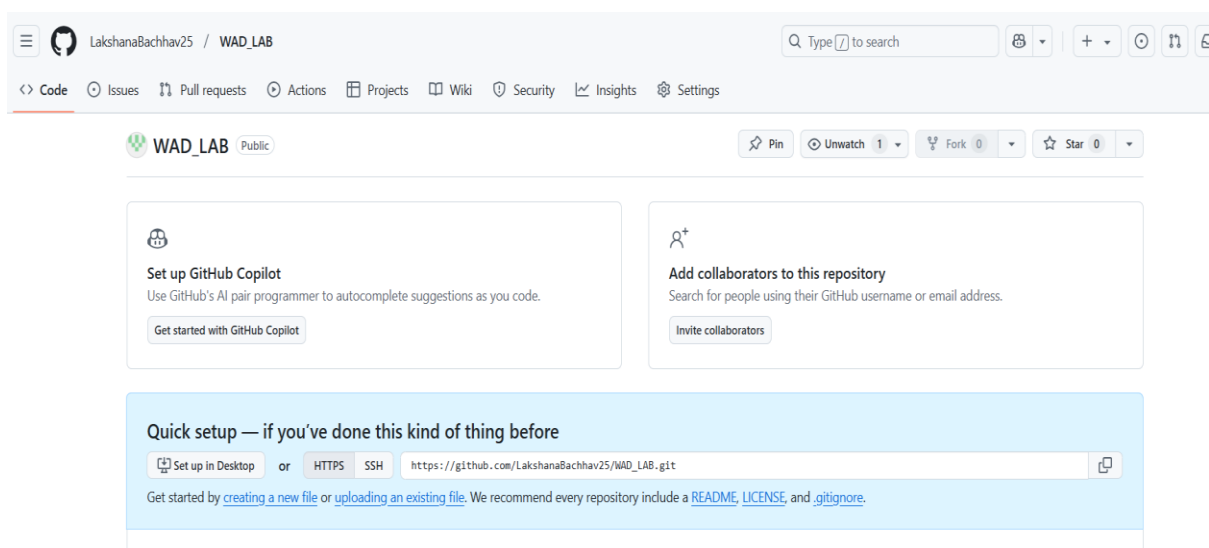


Component of Git :

- **Working Directory:** This is where your project files are stored and modified before tracking them with Git. Changes here are untracked until added to the staging area.
- **Staging Area:** A temporary storage where files are added using `git add` before committing. It helps organize changes before finalizing them in the repository.
- **Local Repository:** A Git repository stored on your computer where committed changes are saved. You can work offline and push updates to a remote repository later.
- **Remote Repository:** A shared repository (like on GitHub) that allows multiple developers to collaborate by pushing and pulling changes.

Git Commands:

Before Push:



```
MINGW64~/Users/acer/Desktop/WAD_LAB/Assignment_3
acer@DESKTOP-KV09KVS MINGW64 ~
$ cd C:/Users/acer/Desktop/WAD_LAB/Assignment_3
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3
$ git init
Initialized empty Git repository in C:/Users/acer/Desktop/WAD_LAB/Assignment_3/.git/
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (master)
$ git add
warning: in the working copy of 'form1.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'form1.js', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'users.html', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'users.js', LF will be replaced by CRLF the next time Git touches it
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (master)
$ git commit -m "Assignment_3"
[master (root-commit) b67dcd] Assignment_3
4 files changed, 82 insertions(+)
create mode 100644 form1.html
create mode 100644 form1.js
create mode 100644 users.html
create mode 100644 users.js
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (master)
$ git branch -M main
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$ git remote add origin https://github.com/LakshanaBachhav25/WAD_LAB.git
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$ git push -u origin main
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 12 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 1.72 KiB | 351.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
to https://github.com/LakshanaBachhav25/WAD_LAB.git
 * [new branch] main -> main
branch 'main' set up to track 'origin/main'.
acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$
```

After Push:

LakshanaBachhav25 / WAD_LAB

🔍 Type to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

WAD_LAB

Public

Pin

Unwatch 1

Fork 0

Star 0

main

1 Branch

0 Tags

Go to file

Add file

<> Code

About

LakshanaBachhav25

Assignment_3

b67dcd · 1 minute ago

1 Commit

form1.html	Assignment_3	1 minute ago
form1.js	Assignment_3	1 minute ago
users.html	Assignment_3	1 minute ago
users.js	Assignment_3	1 minute ago

README

No description, website, or topics provided.

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

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acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$ git fetch origin

acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$ git log origin/main
commit b67dcdcb128c1ceae814f16644851cad903299f (HEAD -> main, origin/main)
Author: LakshanaBachhav25 <lakshanabachhav25@gmail.com>
Date: Sun Feb 16 20:59:38 2025 +0530

    Assignment_3

acer@DESKTOP-KV09KVS MINGW64 ~/Desktop/WAD_LAB/Assignment_3 (main)
$ git pull origin
Already up to date.

```

After Pull:

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<> Code

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b67dcd · 6 minutes ago

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