Github

Git - VCS (version control system.)

Basically projects are done by diff companies. they use Git as a tool.

Git is a Remote Server, where old data is saved here & we can update them.

Revert back mean going back to the old version code.

Note:- Here we can save projects, Make project, make changes in project, we can track all changes, we can revert back etc.

We have lot of Version Control System in the Market

1. Git hub, Inc   3. Bit bucket.org.

2. Gitlab, Inc.   4. Bean stalk

You may get doubt that Git hub, is same like cloud (AWS, GCP, Azure etc) but not.

Github is not a cloud provider. It is a primarily a ~~platffo~~ platform for version control and collaboration on software

why only Git hub because it free and easy to use and save multiple repository of free of cost

Git vs Github

Git :-

* Actually Git is Version control system.
* It tracks changes to files and allows multiple people to work on the same project without overwriting each others work.
* Git works on local Machines
* It doesn't require an Internet connection for basic tasks like committing or branching.

Github :-

* It is a web based platform built on top of Git
* It provides a cloud based environment for storing & sharing code repositories.
* It also acts as Social N/w for developers, where they can follow other, Star repositories & contribute to open source projects.

Task Need to learn :-

1. Installation
2. localfiles ⟶ Staging Area ⟶ Comitted changes
3. Pushing into Github.
4. Cloning into local computer from Github.

Use Cases of Git

1. Software divelopment
2. Project management
3. Tracking versions.

Git:- Git works locally to track the changes in folder of files. helps in organizing the code with the help of Branches.

Github:
- A cloud platform that hosts the local repo online so that anyone with the repo link can access the project and contribute changes.

Steps to install :- Git.

→ Google → install Git → Home Brew

→ Terminal → paste Brew code in Terminal → Enter

→ run the command what it shows → brew help

② → install git. → git -v

→ git config --global user.name " "

→ git config --global user.email " "
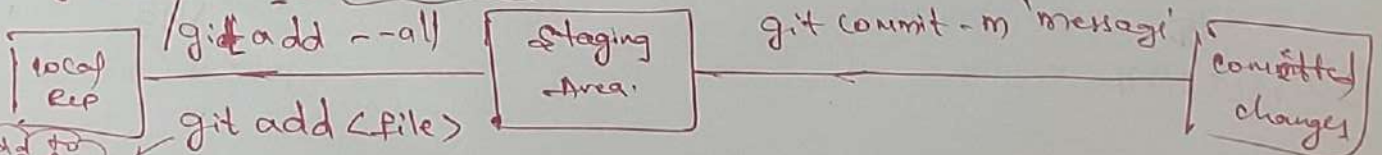
→ git config --global --list.

To make your folder a repo :-
Open terminal in that folder → ls -a → git init ⤵

                                                  ls -a

git add. → add all file to S.A

| local rep | git add --all | Staging Area. | git commit -m 'messagi' | committed changes |

git add <file>

add to S.A.
remove from staging area → git rm --cached <file>

* Git log ——→ to check all operations done.

* git remote add origin < links

* git remote -v

* git push origin master.

* git : To clone files from github :

① Create new folder ——→ open Terminal ——→ git init

                                       ↓

                   All files   ←—— git clone <lin
                   will be
                   appears in
                   folder.