Git is a technology on which a wrapper is written which is called Github.

✓ Git is a piece of Sf which anyone can use
layer

✓ MS has written a wrapper on top of this

is called github.

✓ A is not by M·S they gave 7 billion
to bought it·

✓ Microsoft have owned something known
as Azure Repos.

(Atlassian) → [Bit bucket]

(Amazon) → [Amazon code Commit·]

✓ But Git is commonly used.

↓
version control system.

↓

(For eg)
.The job that I did today, yesterday,
tommorrow ; day before yestaday , everything is a diff. ve

Code · synchronization :-

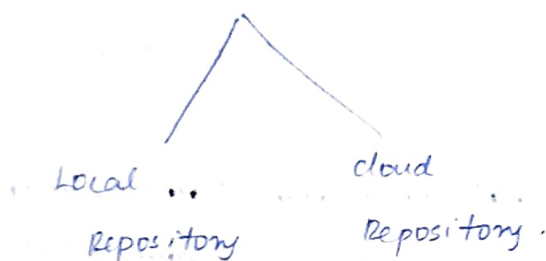# REPOSITORY:

DATA   Store   →   Database

File   "   →   Filestorage / folder

Code   files   →   repository.

TWO TYPES OF REPOSITORY:

Local   cloud
Repository   Repository.

LOCAL REPOSITORY:

whatever   I store   inside   my   laptop
considered   a   local   repository.

CLOUD Repository:

It   will   uploaded   to a   server &
code   will   not   be   presented   inside   our laptop

we   can   colloborate   if you have permission.

GIT INIT:·

you are   initialising   a   local repository
inside   your   laptop.

Create git   environment.

In git there will be sample. It is in Public.

You have to clone this to the folder (the folder) in file explorer

git clone copy the HTTP Address of sample in git

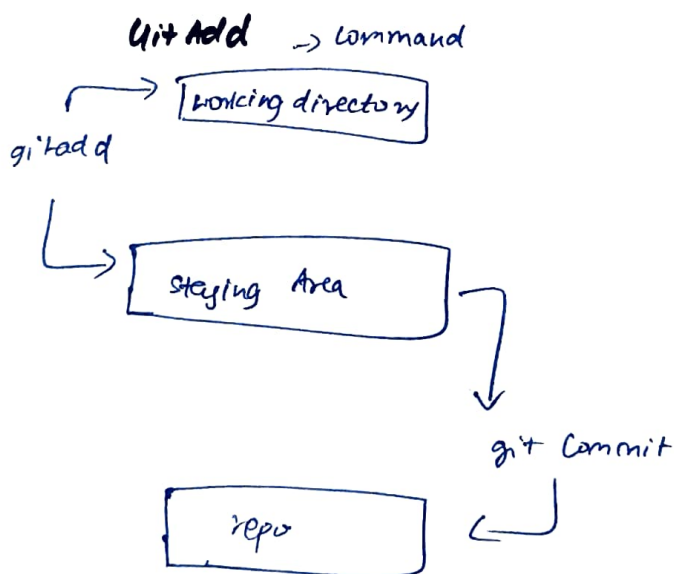If you are using git first time, then configure it.

git config --global user.name "kanimozhi-28"

"   "   "   user.email "kanimozhi 2877@gmail.com"

Why there is .git folder?

It is connection b/w local repo. and your cloud repo.

STAGING:

In github,

git Add → command

git add → working directory

→ Staying Area

git Commit →

repo

for 4)

If we writing a letter, we will put all files in envelope.
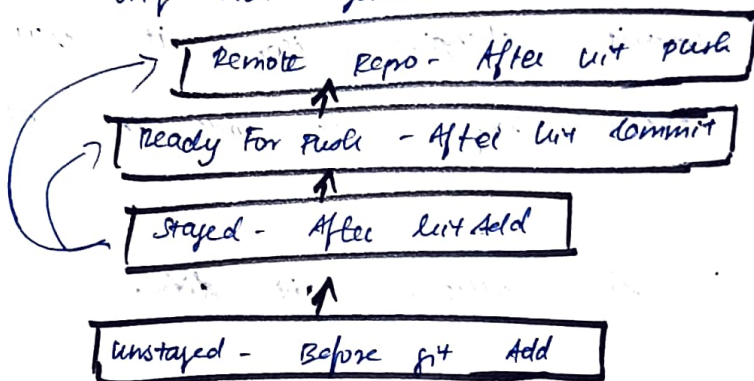
This process is called **git Add**.

4) we seal it, At the top names Add.

Note:- → **Commit**

4) we post the envelope → "pushing"

Commit Hash:.

{ Date, Name, From, TO Add }

↓

Uniq. No. generated.

| Remote Repo - After git push |
| Ready For Push - After git commit |
| Stayed - After git Add |
| unstayed - Before git Add |

git RESET:..

If you have mistake in stayed file then you have use this. Command to reset into unstayed file (next push)

GIT PUSH ORIGIN REMOTE

↓

git clone use.

IMPORTANT BRANCHES:

MAIN

MASTER.

FAST FORWADIUIY:

↓
Merying strategy

↓ one person making changes &
another person also making changes means
this is called Merging.

UIT MERUE

UIT STATUS:.

It is used to show whether the
it is staged / unstaged.

In the " Commit changes. icon... it will
show the changes in code in red
color.

This is called. git diff.

UIT DIFF:

. Current folder
./ Also means Current folder.

BRANCH:

Backend   Frontend
↓   ↓
Branch   Branch
Create → work   Create → work

Merge
they m'll work

HOW to create new branch:-

git checkout -b "frontend"

You have to go again to main branch,

Then,

git branch main

Sometimes, git cannot push properly to branch

so, we have to use following command.

git push origin frontend.

Frontend changes & Backend changes are not updated in main branch. For this we have to use.

git - pull req.

MERGE CONFLICT:

git pull main

Add, commit, push, Conflict solve.