GIT---Global Information Tracker

(Version control system)

🡪It is a central repository using which we can manage our project source code.

🡪It maintains all modifications happening to a specific file.

--> because of versions troubleshooting , fixing bugs is easy.

--> if something goes wrong in current version we can rollback to previous

version.

---> It records the modifications, when modified (timestamp) and why it is modified.

---> Git is distributed VCS.

used for 2 reasons:

1. VCS version control system

2. Colloboration

why do we use git?

to maintain multiple versions of same file.

Functionalities of VCS:

1. allows multiple developers to develop the code simultaneously.

2. doesn't allow over writing each others changes

3. maintains a history of every version

4. Git is fast when compared to other version controlling tools.

5. Multiple developers can easily collaborate and work on same project.

6.It is also used in backing up our project.

Types of VCS:

1. CVCS : centralized version control system🡪SVN sub version control system

2. DVCS : Distributed or Decentralized Version control system.

SVN: 🡪 It consists of current version data. Each and every developer needs to connect to this server and then needs to develop their code.

Disadvantages of SVN:

1.Servers can be accessed by anyone- anyone can copy the code

2. If server is destroyed, every thing will be lost.

Decentralized/ Distributed VCS : Github🡪server

Each developer need not want to connect to the github (server)

Cloning: Using cloning, we can bring our codes from remote repository (server- github) to local repository (own systems)

Command for cloning:

git clone url

Git :

Git is a client/server architecture.

Repository: Repository is used to store the group of project files.