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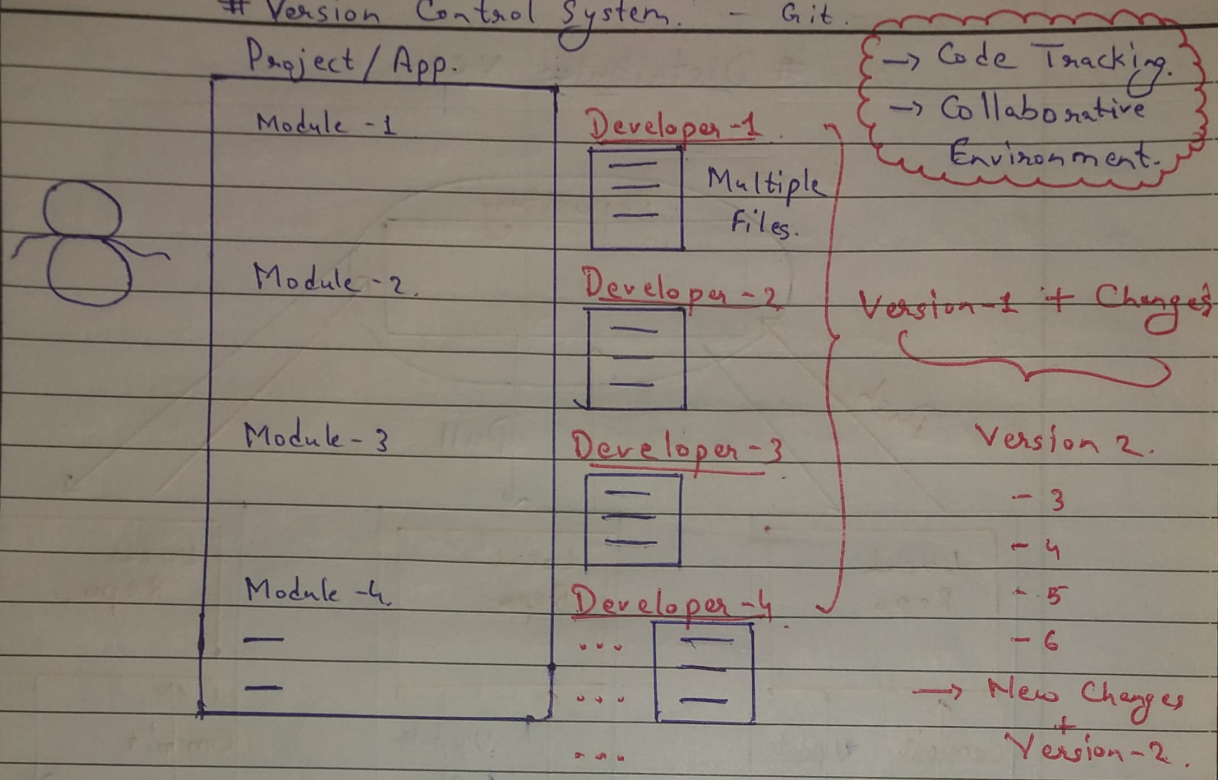
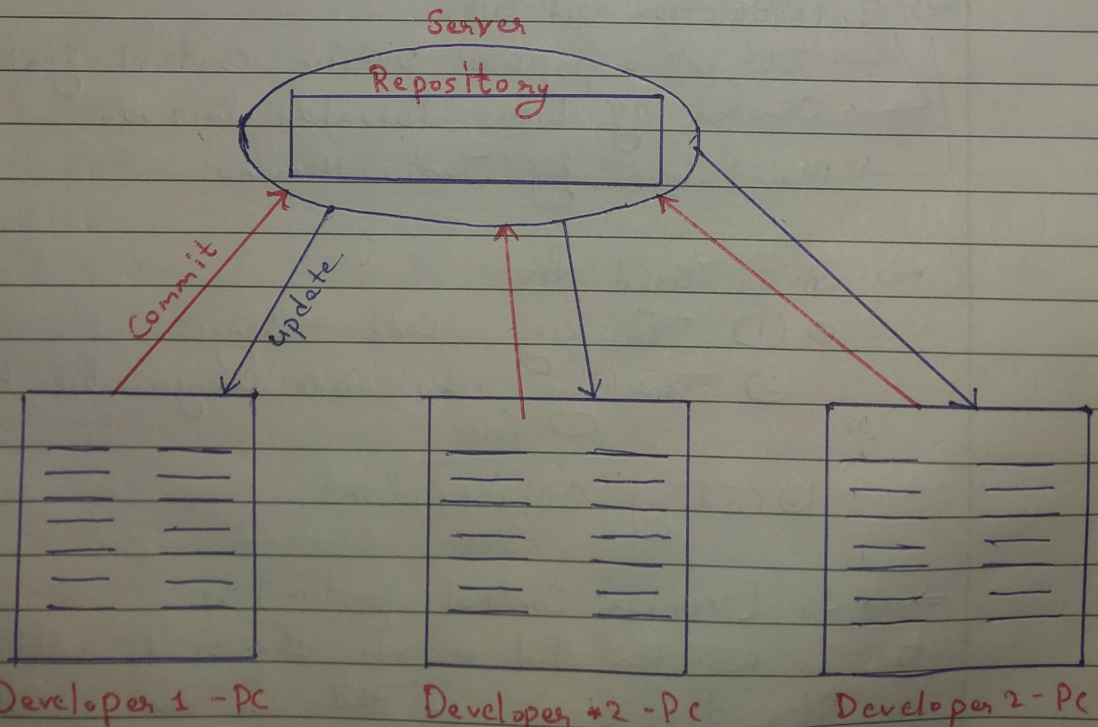
Version Control System. - Git.



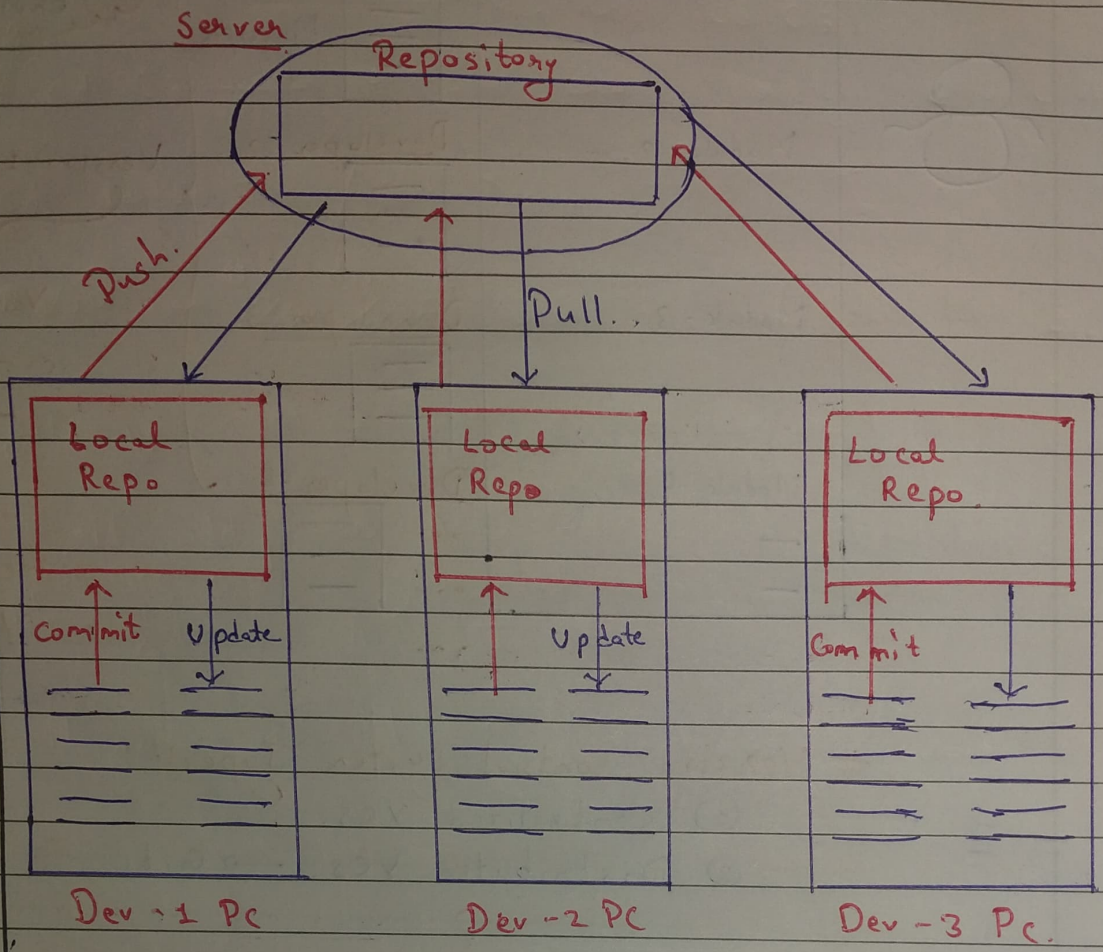
Version Control System Types:

1. Centralized VCS.
2. Distributed VCS. → Git.

Centralized VCS



Distributed VCS.



=> Introduction of Git.

- It is a popular version control System [VCS],
- Created by Linus Torvalds. in 2005.
- Maintained by Junio Hamano.

=> Git is used for.

1. Tracking Code Changes.
2. Tracking who made changes like history of the files.
3. Coding Collaborations

=> VCS [version Control System]. :-

It is a system that records changes to a file or set of files over time, so that we can recall specific versions later, i.e, for every source code changes in a file a new version will be created

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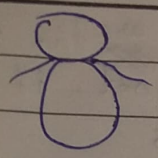
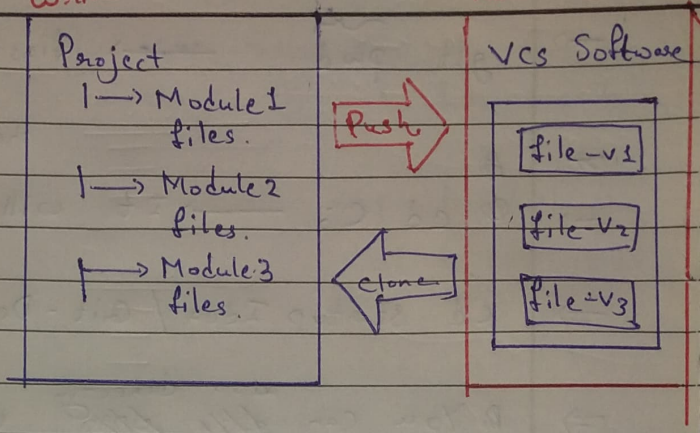
Developer will write the code

Remote server.



Client Gave the requirement



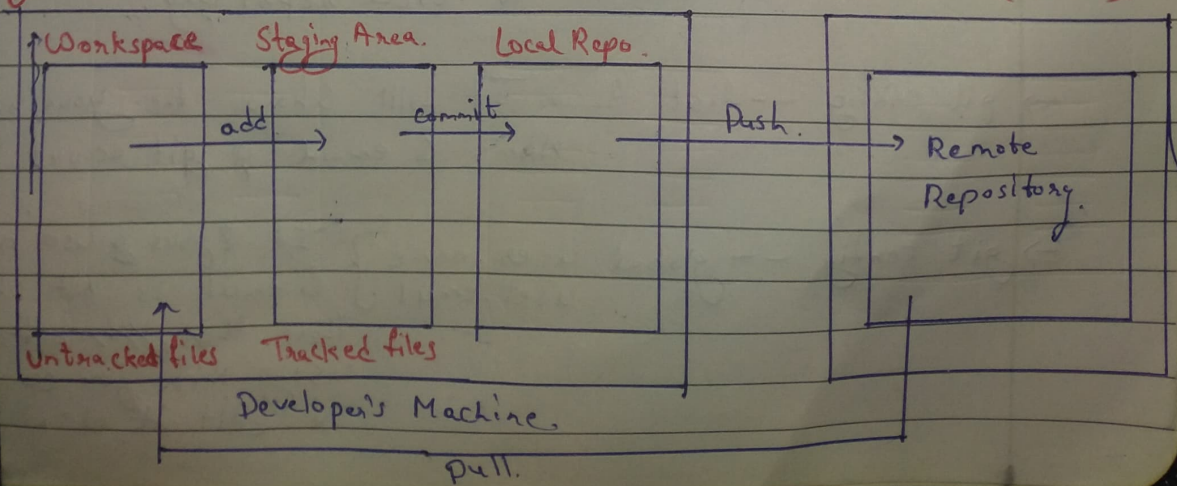
⇒ Centralized [Vcs] ⟶ Developers can Collaborate & do the changes.
↳ Eg:- cvs, SubVersion, Perforce

⇒ Distributed Version Control System.
⟶ Dvcs are Git, Mercurial, Darcs, Bazaar, etc
⟶ Developers don't check out the latest snapshot of the files rather they fully mirror the repository including its full history.
⟶ if the main server dies, then the local system will maintain a copy of the main repository which has full backup of data.
⟶ If the remote repository is down, then the developer can make changes in the local repository & when the main repository is up the code can be pushed to remote Repository from local repository.

In Industry
⇒ Jira tool is used to assign a particular task to developer in project.

git init.

Git Server(GitHub)



cd => Change directory.

Present working Directory.

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=> git pwd ——> first check you are in working Directory or not. if not then use cd C:

=> cd C: ——> It will change directory to C drive.

=> cd startup Idea / Git-Demo. } ——> you can also write like this.

=> You can also directly open it from that folder.

=> git init ——> It will create the empty local repository to that folder.

=> git add . ——> After creating empty local repository, you need add all files to staging Area (Tracked file).
you can also use particular file name.

=> git rm --cached [file name] } ——> You can remove the particular file which you don't need to be tracked..

=> git status ——> It will show the status of your files.

=> git restore [filename] ——> If you have done some changes in file then you can also restored it to staging Area.

=> git commit -m " message. " } ——> By using this you can transfer all the files to local repository.

=> git config --list } ——> It will show the your user name & email of git account

=> git config --global user.name } If your user name
user.email } & email is not showing there then by using this you can it & edit it also

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⇒ git branch -m main } → By using this you need to change branch from master to main.

⇒ git remote add origin Your github repository link. } → Need to add your repository.

⇒ git push -u origin main } → Using this you can push your files to your remote repository. It will take little time.

⇒ git clone github repository Link } → Another person can get all the files of that repository to their local repository.

⇒ git pull github repository Link } → It is use to just pull the files which are modified or newly added to Repository.