

Git and Github

Ans 01:

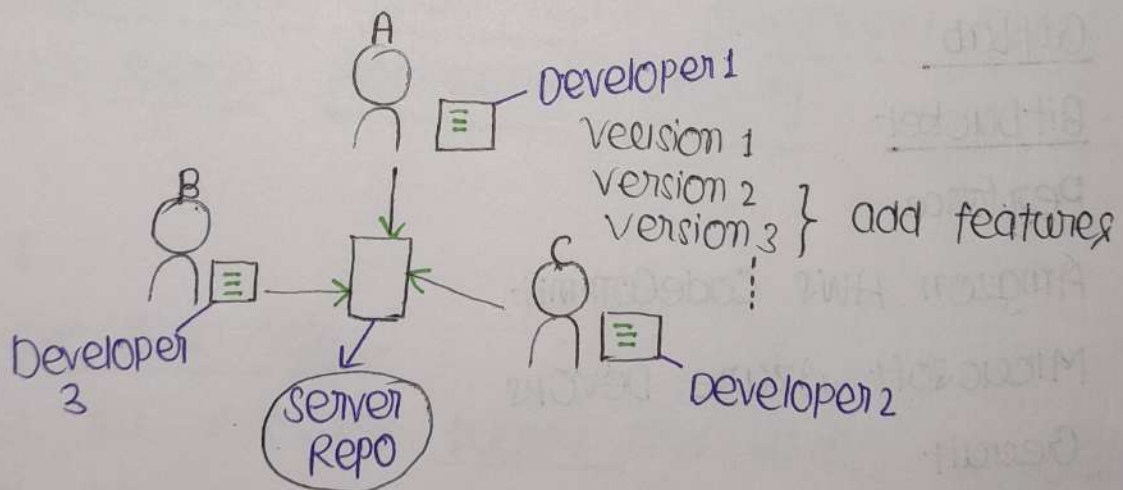
Git :-

Git is a version control system. It makes collaboration environment for developers. Using Git developers Maintain, Track, Undo the code and integrated the code in one place.

Ans 02:

Version Control system :-

Version control system means control the version and version features of the collaboration.



In the figure Developers has its own version. If developer A has version 1, version 2, version 3 that means adding the features by the developers and make versions control by developers.

- ▷ Centralized version control system.
- ▷ Distributed version control system.

Ans 03 :

GitHub :-

GitHub is an internet hosting service for Software Development and version control system using git. It provides the distributed version control of git plus access control, bug tracking, Software feature requests, task management, Continuous integration and wikis for every project

reference from
Wikipedia

Ans 04 :

Popular Git hosting Services :-

- * GitHub
- * GitLab
- * Bitbucket
- * Perforce
- * Amazon AWS CodeCommit
- * Microsoft Azure DevOps
- * GitLab
- * SourceForge
- * Codebase
- * CloudForge
- * Plan.io
- * Launchpad
- * Gitblit

Ans 05:

Types of Version Control System:-

there are two types of VCS.

① Centralized VCS

② Distributed VCS

Ans 06:

There are following benefits come with using Git —

- ▷ Collaboration environment and share code/data with the developers.
- ▷ Flexibility, saving time, No work load.
- ▷ Using Git developers share code, Mention and Maintain code, track code, integrated code.
- ▷ Open source, performance, security.

Ans 07:

Git Repository:-

A git repository tracks and saves the history of all the changes made to the files in git project. It saves the data in a directory called git, also known as the repo folder.

Repositories in Git contain a collection of files of various different versions of a project.

Ans 08:

The "git init" command initialize a repo in Git and creates a new git repo.