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Assignment: 3

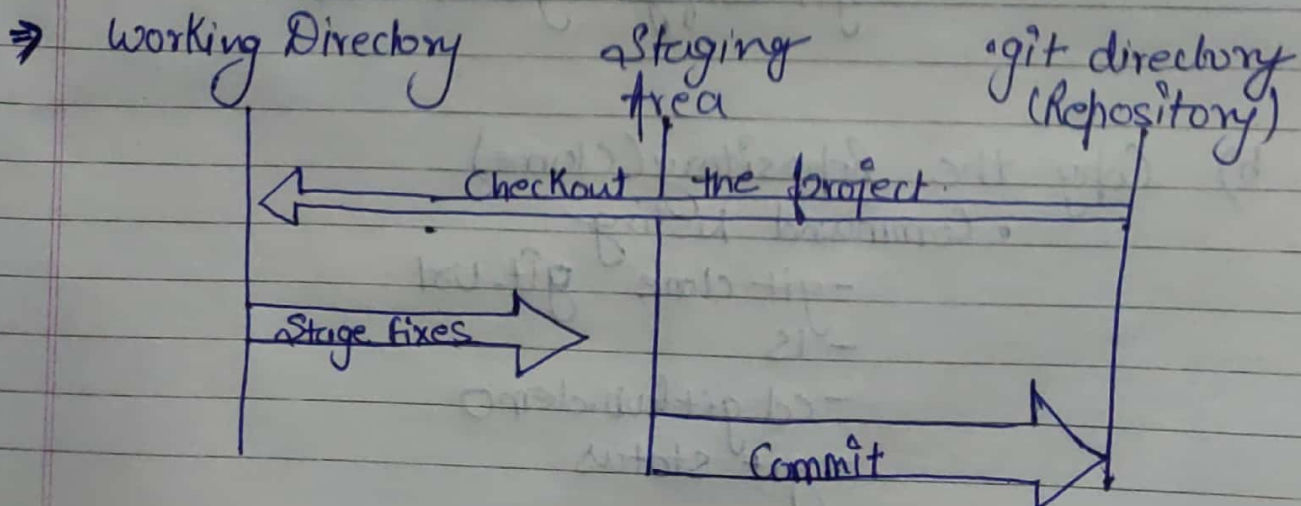
⇒ What is Git: It is free and open source distributed version control system designed to handle everything from small to very large projects with speed & efficiency.

(or)

Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like cheap local branching, convenient staging areas and multiple workflows.

⇒ Git Three Status:

- 1) Modified: It means that you have changed the file but you have not committed to your database.
- 2) Staged: It means that you have marked a Modified file in its current version to go into your next commit snapshot.
- 3) Committed: It means that the data is safely stored in your local database.



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 ⇒ **GitHub:** It is a provider of internet hosting for software development and version control using Git. It offers the distributed version control and source code management (SCM) functionality of Git, plus its own features. It provides access control and social collaboration features such as bug tracking, feature requests, task Management, continuous integration and wikis for every project. GitHub offers it basic services free of charge, its more advanced professional and enterprise services are commercial. Free GitHub accounts are commonly used to host open-source projects.

⇒ **Git Commands:**

a) **Git Configuration**

• Command listing

- git version

- git config --global user.name "Shashi Sharda"

- git config --global user.email "sashi6847@gmail.com"

- git config --global --list.

b) **Copy the Repository (clone)**

• Command listing

- git clone git-url

- ls

- cd github-demo

- git status.

c) The first Commit

- Command Listing
 - git status
 - git commit -m "first commit"
- Git Exploring
 - git --help.

d) Publishing changes to GitHub (Push)

- git push -u origin master