

Master Class

Computer Systems

What is a git?

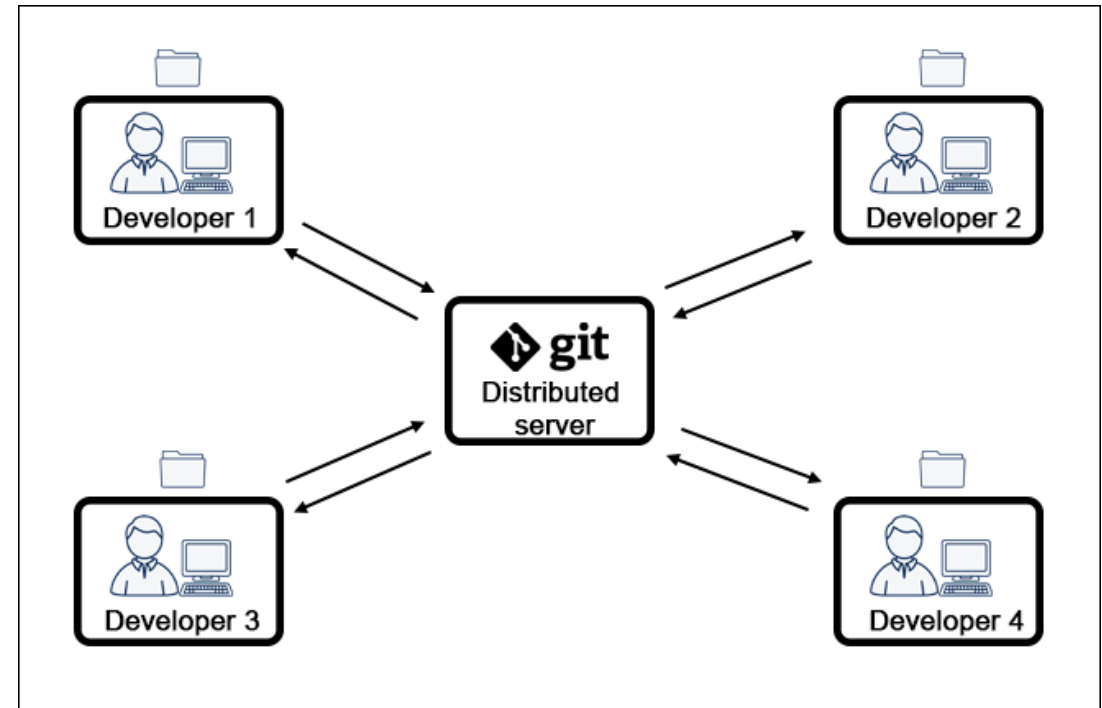
- **Why you need it?**

- Git is an open-source version control software. It help the software developer to manage the changes in source code files.
- Features of git such as free, distributed, security, local repository, collaboration etc.
- You can use in this course for version controlling of your assignment source files.



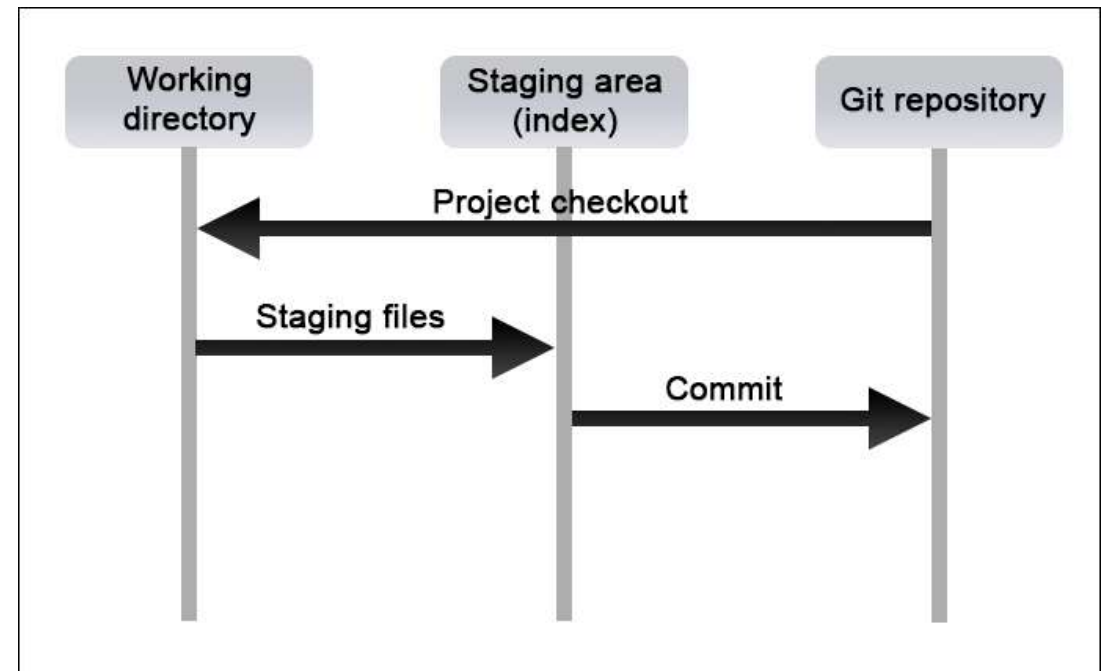
How it works

- Install the git from this site. <https://git-scm.com/> or sign up github <https://education.github.com/>
- Use git using the command prompt window or terminal or graphical user interface.
- Configure the git according to your computer OS.



How it works

- A Git project resides in three sections:
- The working directory
- The staging area
- The Git repository



Difference of Git and Github

- Git
 - It is a software
 - It is installed locally on the system
 - It is a command line tool
 - It is tool to manage different versions of edits, made files in a git repository
 - It provides functionalities like version control system source code management

Difference of Git and Github

- GitHub
 - It is service
 - It is hosted on web
 - It provides a graphical interface
 - It is space to upload a copy of the Git repository
 - It provides functionalities of Git like VCS, source code management as well as adding few of its own features

Exercise

- Create a account on github
<https://education.github.com/>
- Install the git on computer and configure it.
- Follow the instruction using the course document.
- [compSys-e2023-pub/tools/masterclass/git exercises.md](#) at main · diku-compSys/compSys-e2023-pub (github.com)

