Git Demo

Team Members

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Introduction

What is git?

- distributed version-control system for tracking changes in source code.
- coordinating work among programmers, used to track changes in any set of files.

Uses of git

- Tracking History
- Collaboration
- Tracking status
- Backup

Git configuration

git config --global user.name “UserName”

git config --global user.email “user@gmail.com ”

Initialization of git :- **git init**

Creating a new folder ⇨ Open it and perform ⇨ **git init**

git status :- displays the state of working directory & the staging area

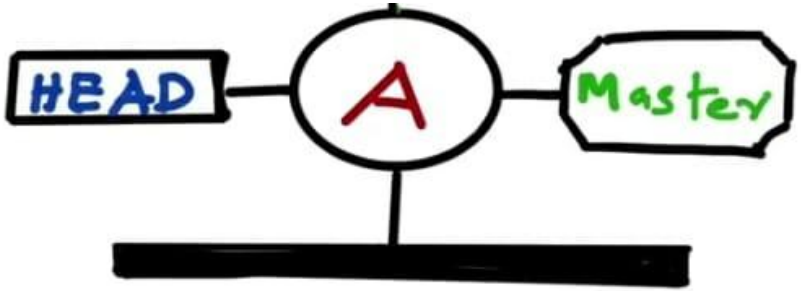
git add :- adds a file to the Git staging area

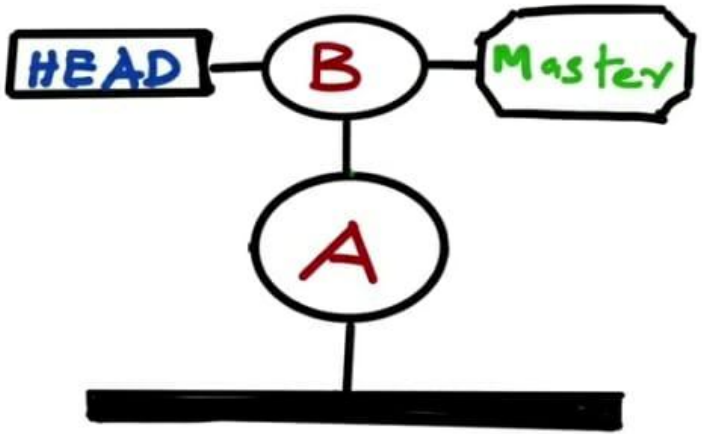
git commit -m "message" :- saving the changes

git log :- To see the status of head and master

git log --all :- To see all the status

git checkout :- To move head to go one version to another version


HEAD
A
Master


HEAD
B
Master
A

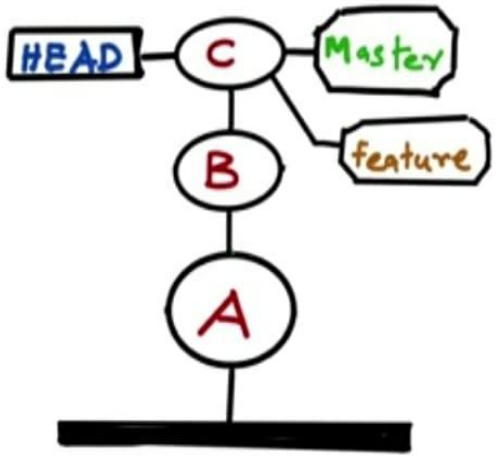
Branching

- ***git branch <branchname>*** :- This creates a new branch
- ***git branch -D <branchname>*** :- This deletes the specified branch
- ***git checkout <branchname> :*** - This moves the HEAD to point to the specified branch
- ***git branch -m <branchname> <new_branchname>*** :- This command renames the branch
- ***git branch :*** - Lists all branches and highlights the currently active branch
- ***git push origin <branch> :*** - Push a copy of local branch to remote repository
- ***git push origin --delete <branch> :*** - Delete the specified branch from remote repository

Merging

git checkout master :- This moves the HEAD to point to master

git merge <branchname> :- This merges the specified branch with master branch



Example- git merge feature

git stash and git diff

git diff:-

- The git diff command displays what text has been added to, removed from, and changed in a file.
- By default git diff will show you any uncommitted changes since the last commit.

git stash:-

- This command stores the uncommitted changes and leave the user with a clean working copy.

Cloning a content of remote repository to the local repository

- *git clone https://username@host:/path/to/repository*

Pushing content of local repository to remote repository

- *Add and commit the file*
- *Use the command-* ***git remote add origin <server>***
- ***git push -u origin master***

Pulling file from remote repository to local repository

- *Change the path to specific directory*
- *git init*
- *git pull <url>*

THANK YOU!