LEARN VERSION

WITH GIT GIT SIR LANIF 9:56PM 19-07-2020 SUNDAY VERSION CONTROL SYSTEM HART 1 :-· also known as source control system or vevision control. vevision control.

It is basically a management of electron

programs, large web siles or other collection · tighty coupled with software developments VCS KIND OF DATABASE &-· VCS options Git, Mercurial, SVN, preforce. · lind of claterbase ble it has snapshoto
of your project at time you want. - VES IS INDEPENDENT8 -It is independent of kind of project/ technology / framework / editor. - WHY USE VCS: COLLABORATION Grit is distributed VCS

1

## CENTRALISE VCS

Nor king Novkeng/ Horling PC #1 PC#2 central server. - Every opten operation is · Drawback: · Network or internet is required Server/machine lost mean data lost. DISTRIBUTED VERSION CONTROL SYSTEM Repository Rush P Repository Repository / /Repository Commit | cp dalt Norking Working Copy

1) All operation are speedy since data is being access from hard drive not from vemolé server. (You do not need internet com.)

1) Changes if setare committeel so you still have a charge chance to push or revoke

Chances

(3) 16 sentral gervex exashes, so any User's copy con be utilized for a master copy.

INSTALLATION AND BASIC WORKEROW: - Go to www.git-sem.com to download Git

" u www. syntero. com for Smart Grit

- First install Git.

- # git comfig -- global user name "Zohaib"

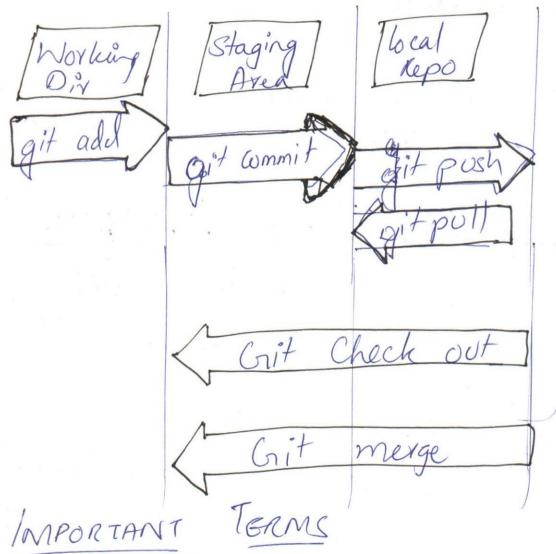
# git comfig -- global user email "Email"

SMART GIT:

Select non-commercial user only.

## GIT OPERATIONS:

- 1) Intialization.
- 2) Add
- 3) Cemami't
- 4) Pull
- 5) Poush



- O Repository
- 1) Working director
- 3) File Statis. (Tracked/Uncracked)

Repo ,

23-7-2020 8:38PM O71T NSTALLATION ThuRSDAY - Downbad Git:. go lo kttps://git-sem.com/download/linux for GUI:www. syntero.com/smartgit. Installation of drif: 
Next, Next. \_ next. SETTING UP GIT:
# git config --global user.name="ZioHAIB AHAG) # git comfig --global. User.email= Zohaib 4986
a gmail.com SETTING UP SMART GIIT :-- Mon commexcial GIT OPERATIONS-ADVANCE OPERATIONS: · Initialize 1 Branching 2 Nerging. · Add · Commit PULL 3 Rebashing 6 Rush

IMPORTANT TERMS:-1) Repository. 2) Working directory 3) File status. [untracked] [unmodified] [staged] add the bile Edit the sile Remove the file Commit 4) Staging Area BASIC MORKFLONS-Terminal and creeke directions. C: \ Repo \ my project # git init (70 initialize repo in directory
This will create git hidden folder

To add file

# git add birst-txt second txt

- Commit Nessage: # git commit -m "implemented rew feature" · Git history # git log #Git status: - (# git status) To check changes # git add. # git add \* txt. # git add first. tat COMMIT: PAST, PRESENT & FUTURE of CI, C2 are the commits then C2

Will be HEAD, everent represents Branch

(master), and next commit will fotore commits. Every commit provided with a unique COMMIT HASH:identifier of 40 bits.

By git reset command, it will remove from staging area. along with changes if not committed. # git reset. # git reset - havel (remove from staging axea and discard) \* IGNORING FILES: Some files or folder if exist in Git repo
then you may ignor them.

E.9 - 9. DS-store (MAC) - Node modules so you will create a file without name having extension gitignore third. txt build (folder)

26- July-20 BRANCHING & MERGING :- 8: 41 AM
SONDAY

Basically a concept of branch is to seperate worker space from another. like if you worker space from another when site and suddenly making project of web site and suddenly you need change old (already deployed web site) then you charge you branch; add, changes that then severt back and submit charges previously working branch.

BRANCH COMMANDS

Show list of bremehes

# git branch

O Show list of branches with some details # git branch to-V

O Create new branch with new name

# git branch new-der

6 Switch to new new-der' branch.

# git checkout new-der

There branch into current active branch

Agit merge new-der

O Show commit différence in huo branches # git log new+der -- master #git log master. new-der - A dipboard or lemporary place where git files get save and these changes are not committeel lo repo. - It later you can restore the changes from Stash in your working copy and continue working where you left. - you can reali as many stashes as you want. #git stash # git stash some (name) #git stash apply stash-name stash@{1} # git stash list # git stash pop

26-7-2020 By SIR REMOTE REPOSITORIES 6:05 PM ZEFSHAN HANIF Online Sexuices - Grithub - bit had Bucket - Gritlab - Many other maintain individual So you don't need to lown central server, Cloning a repository # git clone UY COMMANO FOR REMOTE REPO :-# git push changes to remote repository # git Jetch 4. Fetch changes from repnoté repository. 4 Mege changes that was Jetch by git # git merge Jetch command.

Instead of git jetch & git merge ive # git pull 4 Fetch and merge changes from remole repository. # git remolé'-v 4 Show remote UY/8 # git venolë show origin. # git remole add myremole 4 This command will add remote repo to local repository. PUBLISH LOCAL REPO TO GITHUB # git venoté add origin UNI # git push -v origin master

vep o name bromeh

-v flog etlablishes a tracking connection bla venoté and our local

COMMAND FOR REMOTE REPO # git push vemolé vepo rame branch.

# git push origin master. origin/master. # git log remolé/branch or PUBLISH LOCAL BRANCHES # git branch work branch name. # git checkout work # git push - U origin Work

## ADVANCE GIT 28-JULY-2020

GIT Work Flow:
H is possible while working with

git that your code need to be tested

git that your code need to be tested

and verified before going into production

and verified before yoing into production

so git advance gives us a feature that

so git advance gives us a feature the authority

in which a developer request the authority

to push request and after review.

Pull request is a github feature

Fork
you donot have write access of repository then you fork means a copy of repository is excale in your git hub account so that you can made changes and then like open source project. - You can request pull reguest if so its on owner discription that whether they accept you changes or reject.

DELETE BRANCH:-#git branch -d contact-form For remote branch # git branch -dr origin/centact-form. To deleté branch from git hub # git push origin -- elelele test. UNDOING LOCAL (HANGES:-# git checkent head (file to restore) # git reset -- hard Head UNDOWNG COMMITTED CHANGES
# git vevert ( commit bash > # git reset -- hard (commit hash)

## ADVANCE GIT -- REBASE 29-JUL-2020

ALTERNATE TO MERGE -- REBASE

- merging is the easiest and common way to integrale changes.

- Rebasing is quite a bit more complex than merging.

MERGE

- Fost forword: (Simpliest one) changes only one branch at a time

- Fost forword: (Simpliest one) branch at a time

- Merge commit: creale a additional commit of merger

REBASE: - Add changes in straight line.
# git vebase < branch name>

PITFALL / DISADV. 3
18 a commit like C3 that is in b/w

C2 & C4 will be added as new commit

BENEFITS: 
All the commit being done branch A

will be seems ifor branch A.

MARK DOWN

30-Joi-2020

mark down is a lightweight language that

you can use to add formatting elements to

plaintext documents.

- Cavalid L. 11 - Greated by John gruber in 2004. - Often used for Readme files GFM (Github Howared Markdown) It has 6 heading for big heading use #!

single hash or for smaller one use 6 1#1 Heading: six hashes. Styling Text :
Bold \* \* text \*\* or \_ - text \_ -Italie \* lext \* or \_ text-

Quote lext 8-Use > to quole

Ovoli Cocle: 
USR text to format text in elistinct

block

Links:
Use { text} formake it one like

[Github Pages](https://pages.github.com/).

lest:
Ovelex list use'-' hypen will convert into butlet

Nested:
Nested:
Wested:
World

Task list:
Use - [J or - [X]