Content

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- Readme.md:

You can add a README file to a repository to communicate important information about your project.

Like we can describe our projects in the readmefile and can share the link too.

Readme is like description of the Repo.

Its like a summary what is inside your repo.

Readme.md- Md is mark down

- # means

# (h1)

##(h2) same as the above till h6

- If we want to write in italic. Below is the example how we can write in italic

\_Batch 2.0\_

- If we want to write the text in bold. So we use the \*\*

\*\*Batch 2.0\*\*

- How to generate the link in README file?

We can create the link with the help of square bracket[] and paranthesis ().

[Know More](https://ineuron.ai) like this.

- Hover on link to show the tooltip so the syntax is below

[Know More](https://ineuron.ai "Company Name")

- How we can generate the image.

![Alter Text](https://ineuron.ai/images/ineuron-logo.png)

- How we generate tables?

|Monday|Tues|Wednesday|

|---|---|---|

|Sci|Maths|Bio|

- How we can highlight the text?

With the help of back-tick below is the example

My Name is `Prajjal`

Under the back-tick text is highlight

- How we can use code and copy, paste option?

``` javascript

let a = 100;

```

- Create the text in Quote

> This is me

with the help of > this we can generate the quote

- How we generate the symbol?

https://shields.io/

This website is use for create the badges.

Git

**- What is Git?**

Git is version control system.

**- What is Github?**

Github is simply a tool which is work on Git.

github kii tarah or bhi tool ha bitbucket, matLab, we have more services which is work on git but the most

famous is github.

Suppose bahut sarra log project par kaam kar raha ha toh hum .zip bnakar bhejaga toh bahut jadda hectic ho ja aga so esa bachna ka lia hum kya karta ha hum 1 online repo (folder) bna lata ha/ wo project hum host kar data ha host karna ka baad hum sarra changes us folder ma karta ha

ab **centralised version control** ma kya hota ha esma direct change karta ha or version banta jatta ha 1 change ka 1 version and second ka second version

But distribute version control ma kya hota ha har 1 ensaan ka pass apni apni 1 copy hoti ha

GITHUB CODEHARRY

**SSH Keys**: SSH key ki help sa hum apni git repo ko btata ha kii ya hamari repo ha or computer bhi mere ha toh ma apni code pull kar saku agar repo private ha toh.

**Q: Git is version control system.**

- easy recover files : agar humsa phala koi galti sa file delete hogae ha toh hum usa phir sa laa skta ha git ki help sa

- who introduced an issue and when? : means koi banda kaam kar raha project par toh hamma pta chal ja aga agar kahi usna koi galti karri hogi toh hum wapas sa roll back kardaga then wo error resolve ho ja agi

- **Roll Back:** Roll back to previously working state. mtlb phala work par chala jaa aga

**> LOCAL VCS(VERSION CONTROL SYSTEM)** phala hum ya software tarah tha ya wo use karta tha means local ma

apni file save kar data tha so agar hamaara computer kharab hogya toh hamara data sab remove agar 2 yr ka koi project tha wo bhi gya

Pros :- can track files & Rollback

Cons :- if you lose your harddisk, everything is lost.

**> Centralised VCS**

Centralised VCS means we have a server and we can push and pull our data on that local server.

jaise hamara company ma 1 server rakha ha so hum code likha aga apna local system par and then hamari

saari team us server par upload kar daggi toh agar kissi ka bhi system kharab hoga toh hamara data server

par rahaga remove nii hoga but 1 prbm ha agar hamara server kharab ho gya toh saara data remove ho jaa

aga

**> Distributed VCS**

git hota ha esma sabka pass sb kuch ha jaise agar koi team kaam kar rahi ha project par toh sarra backup

uta sakta ha 1 toh poora project uta sakta ha server sa or server sa delete bhi hogya toh dal bhi sakta

ha poora project dubara ab sab yahi use karta ha

**GIT Command**

- when we use the git first time so firstly we provide the username and mail gitbash ko.

git config --global user.name Prajjal

git config --global user.email prajjalsaxena@gmail.com

with the help of above commands we create user mail and user

- agar hamma esa vs code open karna ha toh

code .

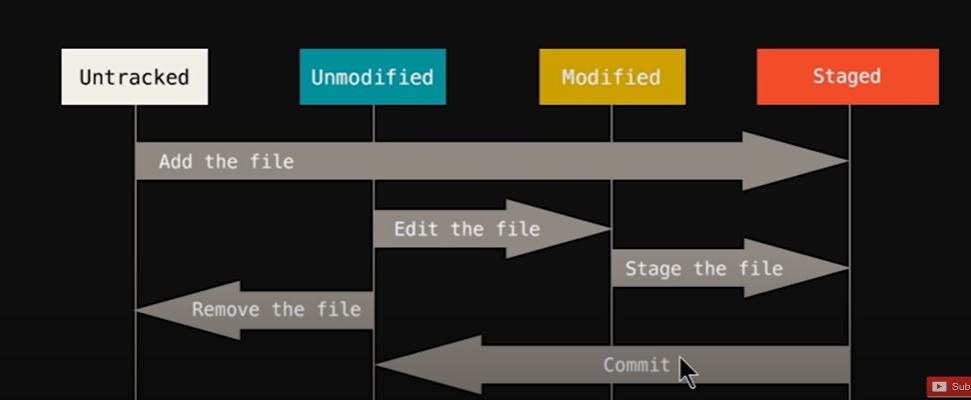
* 1 repo ko panna ka lia hum init command ka use kar sakta ha ya cloning kar sakta ha agar hum cloning kar raha ha toh server sa saarra code hamara pass a jata ha

or agar aap intialize kar raha ho toh hum suru sa start kar raha ha agar ab init command

likhuga toh ya initializ krdaga

* ls -lart ya command hamara sarra hidden folder ko dikha datta ha

Ab hum .git ka andar file bna danga



**Untracked:** untracked ka mtlb ha kii aap log git kii help sa es file ko track ni kar raha ha yani kii git aapki file sa koi mtlb hee ni rakhaga

Hum bolta ha git hamari files ko dekho or changes ko record karoo or hum log kis file add ni karana chahaga jaise log file hogi binary hogae jaise mna index.html kii ha ya direct file hamari staged area

Ma a ja agi.

**Staged Area:** ya hamara madaan hota ha esma hum jo cheeja dalta ha jo kii hamari commit ma ja agi

Commit hamara 1 snapshot hota ha jaise mna 1.html 2.html par kaam kia or 3.html or 4.html par bhi but ma dar raha hu kii abhi ya dallu file ya nii toh wo ma staged ma da dunga esa kya hua mna 2 file heee staged karka 1.html or 2.html commit ma daali

1 bar ma file ko staged area ma la aya toh ma phir commit krduga ya mere file ab unmodified ma chuki ha means yani ki git na aapki file ko record krlia ha. Ab hum es file ko edit kar sakta ha ya asa bhi chod sakta ha then modified ho ja agi file phir wapas sa stage the file and commit ho ja agi

Ab ma apni index.html file ko staging ma la janna ka lia command use karuga

git add index.html

ab check karna ka lia likhuga

git status

or jitna mna kaam kia ha esa save karna hoga commit karka save ho ja aga

git commit command use karaga

es command ka badh hammam I dabana ha then likhna ha Initial commit

ab es screen sa bahaar niklna ka lia esc dabauga :wq

ab ma git status chalauga toh ya Blaga sab sahi ha

ab 1 command hoti ha touch command ya 1 blank file ko bna data ha

hum 3 file bna aga about.html contact.html, monuments.html

or ab hum git status dalaga toh hamari ya sari file untracked show hoggi

staged ma sari files ko dalna ka lia 1 command hoti ha

git add -A

agar humna koi file update(Modified) karri ha toh ab hum staged ma dalni ha toh yahi command

use karaga git add -A

ab jab hum commit karta tha toh 1 vim window open hoti thi phir esc daba kar :wq use karta tha command but hum dusri command sab hi commit kar sakta ha jaise

ya 1 shortcut ha

git commit -m “Added more htmls”

* Agar mere file update kardi ha kisssi na toh ma phala wali file kaise lau so uska lia hamara pass 1 command ha

git checkout contact.html

* Ab 1 condition ya bhi ha kissi na saari file modified kardi ha or hamma phala wali lanni ha toh hum upar wali command 1 1 karka nii likh sakta ha toh hum use karaga

git checkout -f

* 1 command ha ( git log ) ya hamma btata ha kii apna kya kya commit kia
* Agar ma saarra commit ni dekhna chata hu last 5 dekhna chata hu

git log -p -1 jitna commit dekhna chata ha last ka utna number likhaga

* Esa bahaar niklna ka lia ma quit karna ka lia ma q dabba dunga
* **git diff**  ya command kaam karti ha jaise humna koi change kia kissi file ma toh ya haamma bta agi kii kya change kia ha humna file ma
* agar mujha wali last wali stage par janna ha toh command ha

**git diff –- staged**

* **difference git diff and git diff -–staged?**

**git diff 1 diff tool ha ya kya karta ha working tree ko compare karta ha staging area sa or wahi git diff –-staged toh ya aapka staging area ko last commit sa match karta ha**

* **ya karna nii chahiye but agar hamma staging par nii jaa a direct commit karwana ha toh**

**uski command**

**git commit -a -m “Skipped staging area and fixed <”**

* **agar hama koi file delete karni ha staging sa bhi or commit sa bhi toh neecha wali command use karaga**

**git rm index.html**

* **agar ma chata hu bss staging area sa hatta toh neecha wali command use karaga**

**git rm –cached index.html**

* **git status command hama status btata ha kii aap konsi branch ma ho**
* **agar hamma thoda summarize ma status chahiye so hum ya command use karaga**

**git status -s**

**es command chalata ha toh 2 M atta ha means modified en do 2 M ka means**

**agar hamma green ma M show ho rha ha toh wo modified staging area ma hua ha or red M bta raha ha working tree ma aapka modified ho chuka ha**

**agar green M or red M 1 saat ha means humna change kia ha kuch toh show hota ha ya**

**kii staging ma modified ha aapki file or working ma bhi modified ha aapki file.**

* **Koi koi file hoti ha jissa hum git ma nii rakhna chata ha jaise koi log file koi bhi file**

**Toh hum command likhta ha asi file bnana ka lia (touch .gitignore)**

* **1 file bna aga touch mylogs.log ab es file ma likha ha**

**Proceesing….. downloading….. uploading….. or heee bahut sarra a jatta ha or file ka size badda ho jatta ha toh hamma esa ignore karna hota ha toh hum kaise karaga**

**Jo humna (.gitignore) bnae ha usma jaka eska file ka naam likh daga (mylogs.log) esa jab hum push karaga data toh ignore ho ja aga ya wala**

**Asa hum kissi ma bhi kar sakta ha agar kissi folder ma toh bhi ignore kra sakta ha particular file ko**

**Agar mujha koi particular extension ko ignore karana ha toh ma asa likh sakta hu**

**.gitignore file ka andar ( \*.cpp) ya koi bhi (\*.js)**

**Ab kissi poori directory ko hee ignore karana ha toh ya karaga toh .gitignore ma dalaga**

**Jaise mna 1 folder bnaya ignore and usma file this.html**

**Ab mujha ignore karana ha toh ma .gitignore likh dunga ignore/**

**BRANCHES**

**Branch sa kya hota ha hum 1 copy bna latta ha or us par kaam karta ha**

**Jaise kii agar humna main ma hee kaam kardia or galti sa galat hogya toh hamari down ho ja agi website esa bachna ka lia hum branches bnata ha means copy project kii phir kaam karta ha**

* **Jab hum gitbash ma git status likhta ha toh show hota ha (on branch master nothing to commit) toh eska mtllb ha kii main branch hamari master hoti ha toh agar mujha new development karna ha toh hum 1 new branch bna sakta ha jaise**

**git branch feature1 ab ma dekh sakta hu es command sa (git branch) esa hum sab branch dekh sakta ha**

**ab ya green sa highlight kar raha ha master branch ko means hum master branch ma ha hamma janna feature1 branch ma toh hum ya command use karaga( git checkout feature1) ab jaise kii jo bhi changes tha wo mna feature1 ma kar lia or manager bol dia kii feature1 acha ha toh wo bolaga 1 kaam karoo merge kardo feature1 branch ko master ma**

**Ab ma chata hu jaise feature1 branch ma mna kuch changes kara ha or ma merge karna chata hu master branch ma toh ma ya command use karuga**

**Master branch ma jaaka (git merge feature1) esa feature1 ka sarra changes master ma a ja aga**

* **Ab agar ma ya chata hu kii mere new branch bna bhi or ma us branch ma banta heee cha jau uska lia nechha wali command use hogi**

**git checkout -b flaskIntegration**

**GITHUB**

**Github is a hosting service. Github par humna jo git reposity bnata ha wo host kar sakta ha git par**

* **Hum remote repository ma apna local repository ko dalaga mtlb push karaga**

**Remote ka mtlb kya ha 1 asi url jaha par hum apni repository ko host karaga**

**Us remote url ko paste kardaga apna gitBash par**

git remote add origin <https://github.com/Naman9259/Git-In-One-Video.git>

**ab hum esa jab bhi bulana hoga toh origin ka naam sa bula aga**

* **git remote command sa hamma naam pta chal ja aga**
* **git remote -v command mujha url daagi fetch or push ka**
* **Ab agar ma push karna ha github remote par apna code toh command neecha wali likhuga**

**(git push origin master) esa hamara code push ho ja aga but hoga ni kyoki private repo ha hamari so eska lia hamma neecha wala step karna hoga**

**Hamma access dana hoga toh eska lia profile ma upar sa jaa aga then click setting then**

**SSH and GPG keys**

**SSH KEY ka kaam ya hota heeee kii jo bhi ma local par karu wo read write ho github par**

**Hum neecha likha hoga generate key and then wahi 1 command ha usma apni email add karni ha and gitbash par paste karna ha**

**Key generate karna ha ab paste karga upar wala then enter enter and use this command**

**eval $(ssh-agent -s) after that use the below command**

**ssh-add ~/.ssh/id\_rsa**

**ab wahi option hoga adding a new ssh key to your github account**

cat ~/.ssh/id\_ed25519.pub ya command use karaga

**cat command kya karta ha poora detail dekha dagga aapko**

**ab 1 code generate hoga then usa apna github par jaaka new SSH key click karka likhna ha**

**Ab ma SSH par click karuga repo ma jakka waha sa url utha lunga**

**Ab mujha gitbash ka url change karna ha upar wala url sa**

**Toh mujha command use karni hogi**

**git remote set-url origin**

**-Ab hum dekh skta ha (git remote -v) command sa kii hamara url change hogya hoga ab hum push kar sakta ha**

**Es command sa**

**git push -u origin master**

**ab esa push hogya hoga hamara code github par but hum branch dekha ga toh wo nii a e hogi**

**toh hamma kya karna ha command sa add**

**add karna ka lia branches**

**git checkout feature1**

**git push -u origin feature1**