Git

Git new repo

Git init – es se project mein git tracking start ho jayegi

Agar hamko apne local system se kisi nye project ko github pr upload karna ho to ham kya karenge

Note :

1. Sabse phle ham ek repo bnayenge github par ja kar ke ye repo public/private ho sakti hai , abhi ham keval public ke baare mein baat karenge .

2. Abhi repo create hone ke baad mein uska jo https:// vala url hoga usko copy karenge

3. To hamko command run krni hogi apne project terminal mein
   git remote add origin { copy kiya hua url }

4. Add ki hui repo ko verify karne ke liye hmako ek command run karni hogi - git remote -v

5. Abhi branch chek karne ke liye ham ek command run karte hai jo git branch

6. Note: agr branch ka naam master aa rha hai to hamko branch ko rename karna hoga , master naam previous versions mein aata tha jo ki abhi ke time mein main mein swich kr diya gya hai

7. Rename branch : git branch -M main – abhi branch ka naam master se main mein swich ho gya hai

8. Fir se check karo ki branch master se main mein switch ho gyi hai ya nhi command : git branch aur abhi result main branch aani chahiye

9. Abhi en sbhi steps ke baad meinham apne local system code ko apni remote repo mein push karne ke liye ham ek command run karenge : - git push origin main

10.   Agar baar baar git push origin -m "message" es command se bachna hai to eski jangh par git push -u origin main es command ka use kare eske baad mein aap   git push origin -m "mssage" ki jngh par keval git push ka use kar paoge

11.   Agr koi nyi file create na ki ho previous files mein hi changes kiye ho to unko add aur commit ek sath kar sakte hai ek single command se : git commit -am "message" abhi git push ka use kar skte ho

Git Add files

Git add { File Name like : index.html } - eska use kar ke ham kisi single file ko add kar sakte hai

Git add { A single space } . – esmein isii project ke ander mein jitni bhi file hogi vi sbhi add ho jayegi or commit ke liye ready ho jayegi   Command : **git add .**

Commit Command

Git commit -m"{ any message (require) }" - esmein jitne bhi changes file mein kiye hai vo sbhi commit ho jate hai local system mein

Push Command

git push origin main => es command se ham apne sbhi commit ko local repo se remote repo pr push krte hai

Git Branches

Git branch – es se ham apni branch check karte hai

Git branch -M main (yahan par vo naam aayega jo tum change kroge main -> new) – es se ham apni branch ko rename kar sakte hai

Git checkout <-file name-> ek branch se kisi dusri branch mein swich krna

Git checkout -b <- new branch name -> es command se ham nyi branch create kar sakte hai

Git branch -b <- branch name -> branch ko delete karne ke liye ham es command ka use karte hai

Git branch code merging

Agar hamko braches ke bich mein difference dekhna hai to ham kuch command ko follow karenge – git diff <- branch name -> to hamko result milega ki branches ke bich mein kya difference hai

Abhi agr hamko branches ko merge krna hai sbhi code ko merge krna hai to ham ek commandka use karnge git merge <- branch name ->

OR Second Method

Using Pull Request: github web mein jab bhi ham multiple branches pr kaam krte hai to vahan hamko pull and compare button show hota hai uska use kar ke ham ek pull request bna sakte hai main file mein merge karne ke liye

NOTE : agr hamne github se do codes ko merge kiya hai , to ham apne project mein changes karne ke baad mein direct push nhi kar sakte ,hamko remote directory fetch karni pdegi pahle jiski command hai : git pull origin main

Es sbhi ke baad mein jo current mein changes kiye hai main branch mein vo add . , commit , aur git push origin main command run kar skte ho

Merge conflict: jab ek hi file mein multiple branches se changes kiye jaye to code conflict ho jata hai yani git understandin mein problem karta hai ki kon se changes lene hai kon se nhi

Fixing mistakes:

Jab hm apne project mein kuch changes ko galti se add kar de ya commit kar de to unko rest kaise karen

Add ke liye :

Kisi staged (add) chane ko reset karne ke liye command : **git reset <- file name ->**

Ye kisi single file ke liye hoga

Agr hamko last sabhi files ke chanes ko reset karna hai to hamko **git reset**

Command ko run krna hoga jis seki sabhi last file codes unstaged ho jayega.

Commit ke liye :

Git reset HEAD~1   es command ki help se ham apne last commit ko reset kar sakte hai

Ye command kevel last commit tk kaam karegi

Deal With Multiple commit : agar aap chahte hai ki hamko kisi purane commit se return karna hai apne code mein tb ham sabse phle

Git log :- es command ko use karenge es se hamko apne sbhi commits ka data mil jayega

To udhr commit ke samne hash code likha hua hoga jis commit mein vapes aana chahte ho us commit ka hash code copy karen aur git reset <- hash code ->

Agr hamkocommit ke sath sath mein changes ko bhi remove karna hai apne project se to hamko apni new command run krni hogi phle to hai

Git log   yahan se apne hash ko copy kijiye aur sath mein hi

git reset --hard <- hash code ->