Git & GitHub

**Basic Steps Handling local repos**

1. Create a local repo in the folder
2. Stage files in it
3. Commit files

*git init*

to initialize the git at the current directory

creates a hidden .git folder that will keep track of you files, changes, edits.

the first stage is always to initialize an empty git repository

*git status*

to check the commit status of the repo

it will show the changed, unstaged files

*git add*

add files to staging area

only staged items can be committed, when you do ‘git commit’ all the staged files get commited

\*you might wonder why do I need to stage first? Direct commit kem no karai? Wont it be easier if git worked like that? While that can be done, its not advisable

Suppose you’re working on a app, you need to add a feature and improve the overall UI, you successfully upgrade the UI but the feature you’ve been trying to add is not happening from you, now you think since the UI is already done you might as well push it to everyone’s devices but if there was a direct commit how would you choose specific files to be pushed, you can say one could’ve specified all the files for commit, but what if you had hundreds or thousands of files, thankfully git thought of that you can just stage the UI file and commit it alone, leaving the incomplete feature file for later.\*

*git clone*

to clone the given repository at the current directory

*git diff <filename>*

to check what changes occurred in a file

*git log*

to see all the changes made

*git log -5*

to see last five changes

*git branch navibranchnunam*

creates new branch named navibranchnunam

*git checkout -b navibranchnunam*

creates new branch named navibranchnunam and navigates to it \* -b jose eni vagar nai thai \*

*git checkout master*

switches to master branch

\*important: je branch ma apde already hoi tyathi te branch delete no thai biji branch ma javu pade for example to hu navibranchnunam ma hoi to ty thi hu 'git checkout -b navibranchnunam' karin e branch delete no kari saku, delete karva mate mare master athva biji koi branch ma pela navigate thaviu pade\*

*git branch -d navibranchnunam*

deletes branch named navibranchnunam

*git commit -m "message"*

commits to current branch with the following comment

\*important jo navi branch ne master branch thi merge karravi hoi to pela navigate to master branch amd merge navibranchnunam, undhu nai chale\*

*git merge navibranchnunam*

merges the current branch with navibranchnunam

query: git reset (hard/soft), git restore, git pull, git push

Uploading local repo to GitHub

Step 1: create new repository

Step 2: copy the url of repo

Step 3: link your local repo to github repo, fire command

*git remote add <Branch\_name> <REMOTE\_URL>*

*i.e. $ git remote add origin https://github.com/octocat/Spoon-Knife.git*

Step 4: push the local repo to github branch now by

*git push <Branch\_name> <Remote\_branch\_name>*

*i.e. $ git push origin master*