Version Control System (VCS), GIT

Prabhakar P

Note: the steps that mentioned below are in the screenshot.

Git basics command(hello-git):

- Created local repo using "git init" (already created during session, so i reinitialized)
- Modified Hello.java file and staged the file using "git add" command.
- See the difference between staged file and already commit file (Hello.java) using "git diff --staged" command.

- Committed changes into local repo using "git commit"
- We can see all the commit histories using "git log" command
- Can also check the patches of commits using "git log -p"

Git branch:

- Cloned the remote repo from "https://github.com/Prabakar19/hello-git.git" (demo remote repo)
- Created new branch(develop) in local using "git branch develop" command.
- Switched to develop branch using "git checkout develop" cmd
- Modified ReadME file and committed into local and seeing logs using "git log".

```
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```

Reset and Merge:

- I have committed the master branch one commit ahead of develop branch.
- So reverted the last commit in master using "git reset --hard HEAD~1"
- When i executed the "git log" command, there's 4 commits histories are visible

```
WMINGWEAY/C/Users/praba/hello-git-cloned/hello-git

prabasil.APTOP-QRTOREV7 MINGWEA /hello-git-cloned/hello-git (master)

s git reset -hard HeLD-1

HEAD is now at a338078 modified file

prabasil.APTOP-QRTOREV7 MINGWEA /hello-git-cloned/hello-git (master)

s git log

commit a33807895cfccl2071628eb52c335f7dcc7d6a5e (HEAD -> master, origin/master, orig

in/HEAD)

Author: Prabakar19 cpraphakar1198gmail.com>

Date: Thu Jan 7 20:54:21 2021 +0530

modified file

commit addiffc3a035e0ee62817db6f8ff5536cf90604e9

Author: Prabakar19 cpraphakar119agmail.com>

Date: Wed Jan 6 16:50:20 2021 +0530

gittignore commit

commit dc22db41c7fea8sec9aef236019f1a682a528c6d

Author: Prabakar19 cpraphakar119agmail.com>

Date: Wed Jan 6 16:41:08 2021 +0530

second commit

commit ddb5f7728b56dae0cb1cddd20b082ad62be6d3

Author: Prabakar19 cpraphakar119agmail.com>

Date: Wed Jan 6 16:22:13 2021 +0530

Initial Commit

grabasil.aPTOP-QRTOREV7 MINGW64 ~/hello-git-cloned/hello-git (master)
```

- And merged develop branch with master using "git merge develop".
- Now when i execute "git log" we can see 5 commits (because develop branch was one commit ahead of master)

```
graba@LAPTOP-QRTOREY7 MINGW64 -/hello-git-cloned/hello-git (master)
5 git merge develop
Updating a338078.2.1d42b4
Fast-forward
Fast-for
```

Move:

- Added test2.txt into staged and committed
- Renamed test2.txt into test3.txt using "git mv".
- Used "git diff --staged" to see the difference between committed file and staged.

Remove:

- "test.txt" file is already committed and i removed it using "git rm test.txt"
- Using "git status", I am able to see deleted changes.
- Using "git diff --staged", can compare committed file and staged changes. Here it says
 it was removed.

Tag:

- Created a "sample.txt" file and added it into staged.
- Then committed the sample.txt as v1.0 using "git tag" command. When i show the version using "git show v1.0", i am able to see tag and commit details

```
## MANNWAR/OUNSWARDA/AU_Assignment (master)

## Manny Manny
```

- Added version "v0.9" to the last commit using the first 8 character of the commit id.
- "git tag" shows all the versions.

```
MINOWORA/CUteru/praba/AU_Assignment (master)

jrt.tag-ar-ensise*_sedas5

prabalia_PTOP-CRTOREV*_NEMONS4 -/AU_Assignment (master)

jgt.tag-ar-ensise*_sedas5

prabalia_PTOP-CRTOREV*_NEMONS4 -/AU_Assignment (master)

jgt.tago-crtorev*_settomev*_settomev*_settoment (master)

jgt.tago-crtorev*_settomev*_settomev*_settoment (master)

jgt.tago-crtorev*_settomev*_settoment (master)

jgt.tago-crtorev*_settomev*_settoment (master)

pre-realse

commit sadas51a2ba00a49a1670b38d2e328ba914302 (MEAD -> master, tag: v1.0, tag: v0.

youthor: prebakar10 -craphikar1199gmail.com-

pate: Wed Jan 6 22:51:07 2021 +0530

sample

diff -_oft a/ample.txt b/sample.txt

new file mode 100644

infer -_oft a/ample.txt

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Have added all the screenshots as images in the folder.