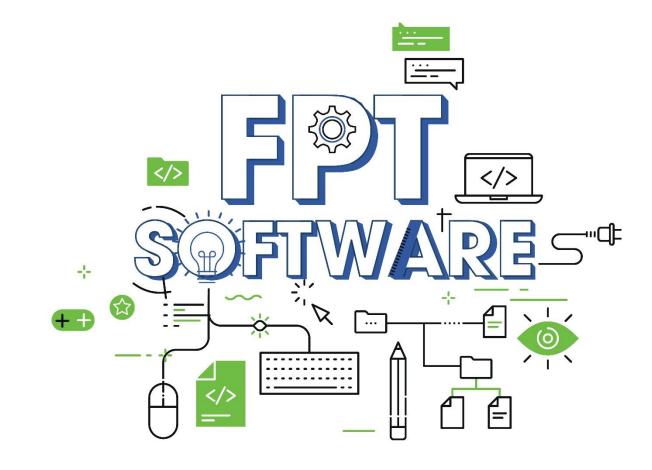




Fresher Android

Version Control with Git – Git Advance







Lesson Objectives





- Demo for Git Command
- Git submodule







Git command demo



Revision last session





| command | description |
|--|---|
| git clone url [dir] | copy a Git repository so you can add to it |
| git add <i>file</i> | adds file contents to the staging area |
| git commit | records a snapshot of the staging area |
| git status | view the status of your files in the working directory and staging area |
| git diff | shows diff of what is staged and what is modified but unstaged |
| git help [command] | get help info about a particular command |
| git pull | fetch from a remote repo and try to merge into the current branch |
| git push | push your new branches and data to a remote repository |
| others: init, reset, branch, checkout, merge, log, tag | |







Git submodule





Situation





- You have external component or subproject is changing too fast or upcoming changes will break the API (iOS Framework, Android Submodule, Java dependencies)
- A component isn't updated very often, you want to track it as a vendor dependency
- A delegate a piece project for 3rd party and need integrate their work at specific release (updates are not too frequent)



Git submodule





- Git submodules keep a git repository as a subdirectory of another git repository
- Git submodules are simply a reference to another repository at a particular snapshot in time.

Implement Submodule





Clone parent repo

- Add submodule
 - git submodule add

```
mk@Sons-MacBook-Pro mk@Son
```

Implement Submodule





Check repo

```
on branch main
Your branch is up to date with 'origin/main'.

Changes to be committed:
(use "git restore --staged <file>..." to unstage)
new file: __gitmodules
new file: __module1

mk@Sons-MacBook-Pro __~/git/git-submodule // main +___ git status [23/01/16| 2:14PM]

// main +___ git status [23/01/16| 2:14PM]

// main +___ git status [23/01/16| 2:14PM]
```

Commit submodule and push

```
mk@Sons-MacBook-Pro > ~/git/git-submodule
                                                                 [main d6155f8] Add submodule
 2 files changed, 4 insertions(+)
 create mode 100644 .gitmodules
 create mode 160000 module1
                        mk@Sons-MacBook-Pro ~/git/git-submodule // main / git push
                                                                                       [23/01/16| 2:14PM]
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 391 bytes | 391.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To gitlab.techover.io:for-training/common/git-submodule.git
   9eda342..d6155f8 main -> main
```



Assignment





- Assignment 1: Practice use rebase command
- Assignment 2: Practice use merge command
- Assignment 3: Configure a project with submodule
- Assignment 4: Practice with submodule command





THANK YOU!

