

Framgia Git Training

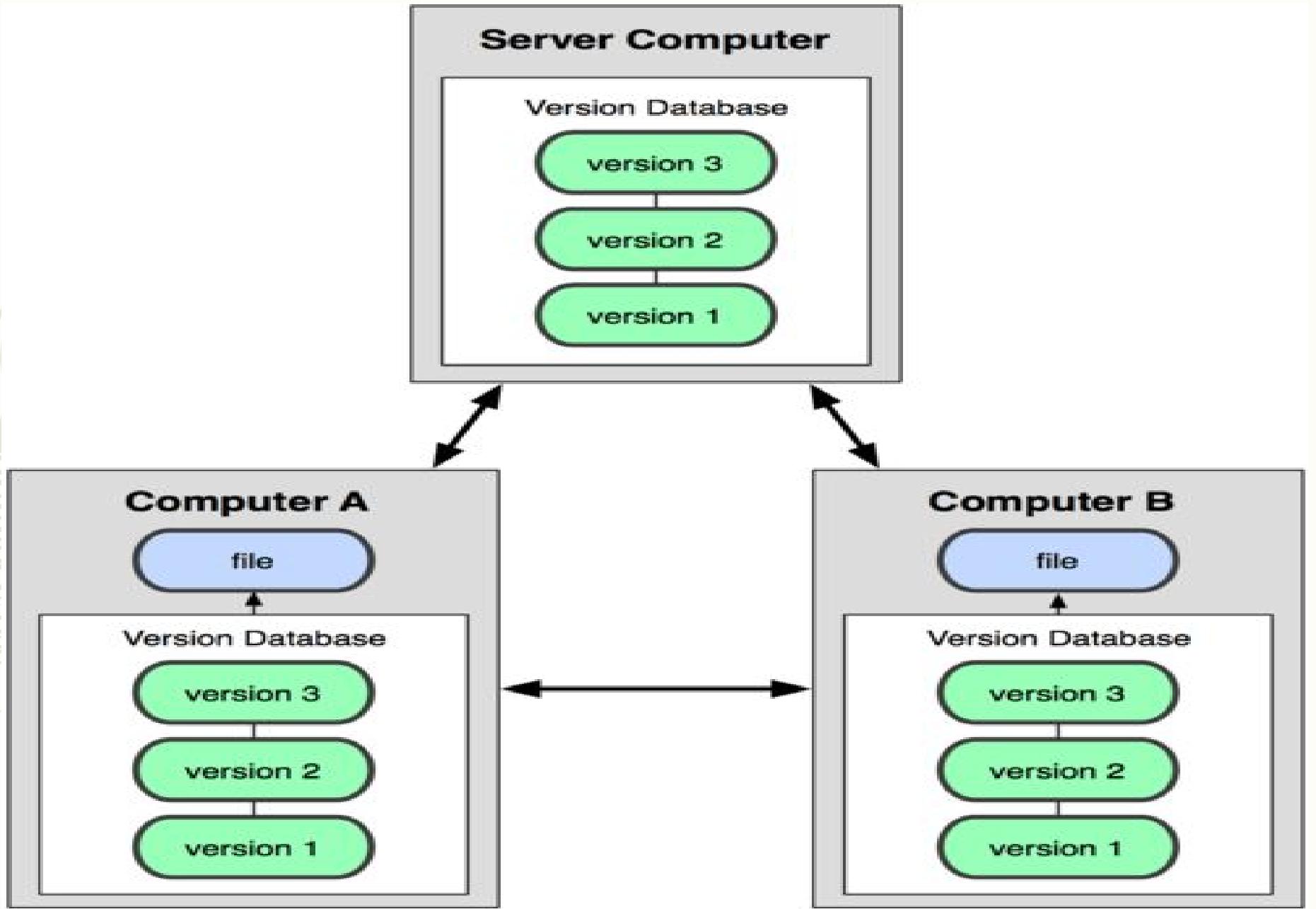


Nguyen Tien Trung – Framgia Human Development



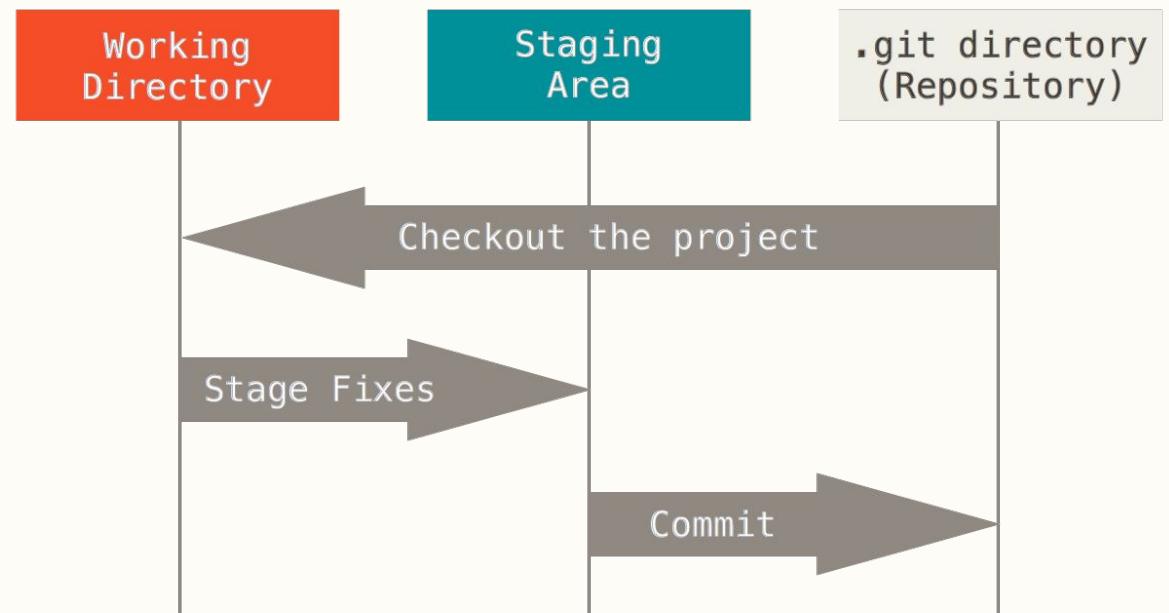
Content

- Introduction about GIT
- Why using GIT
- Git follow in Framgia

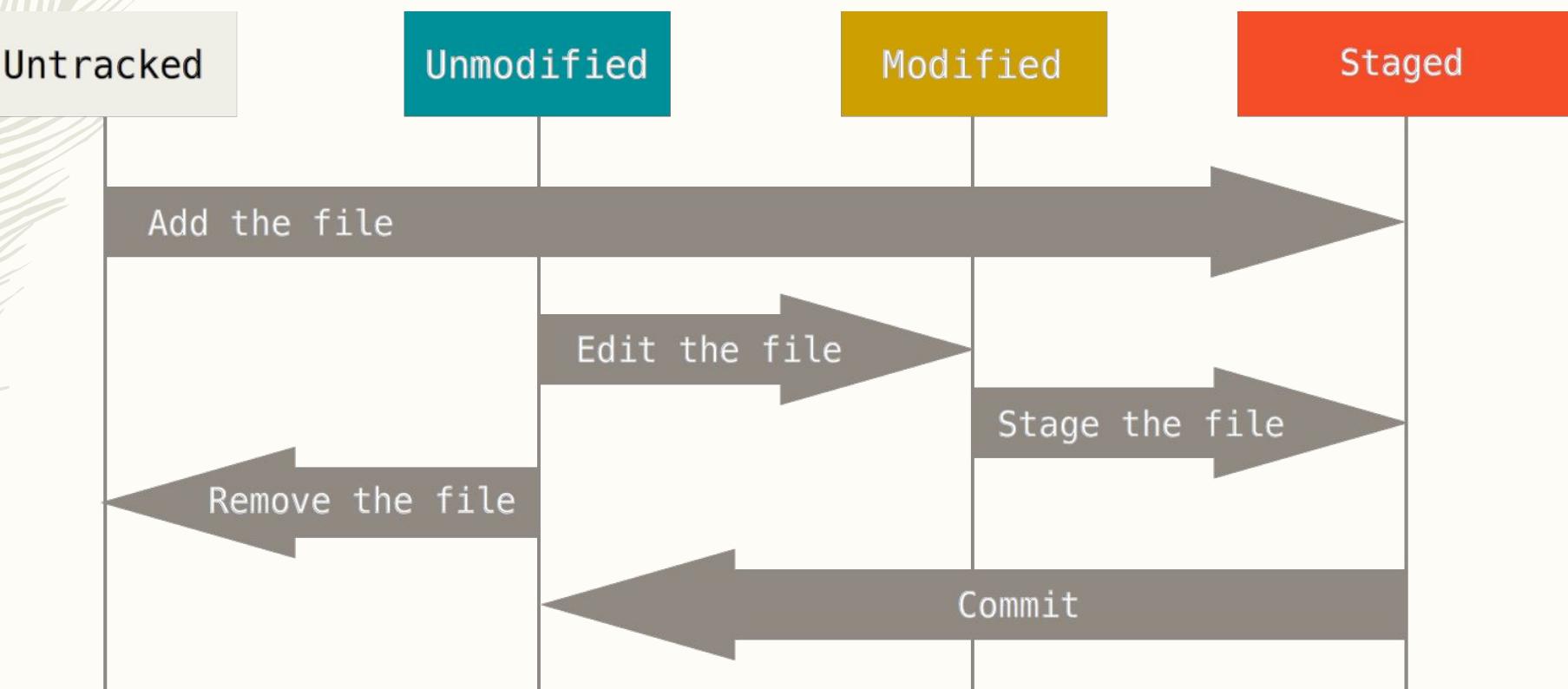


Introduction about GIT

- Three states:
 - \$ git add
 - \$ git commit
 - \$ git checkout



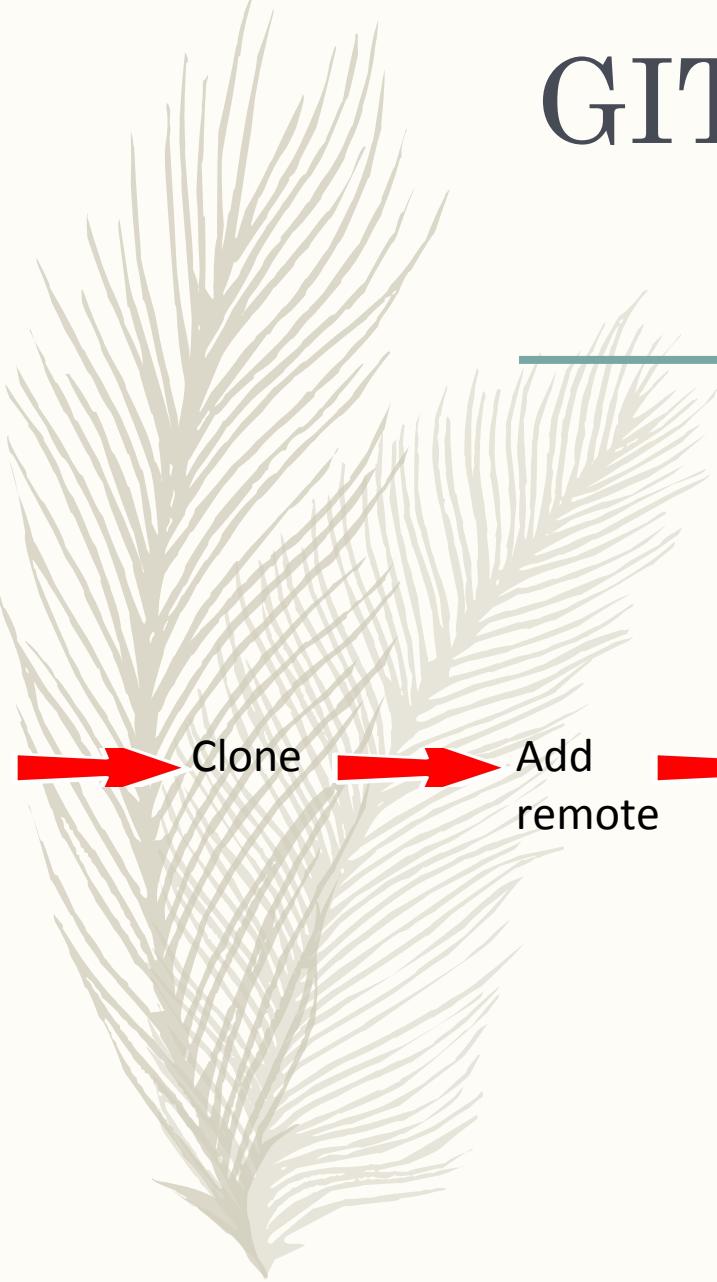
Recording Changes to the Repository



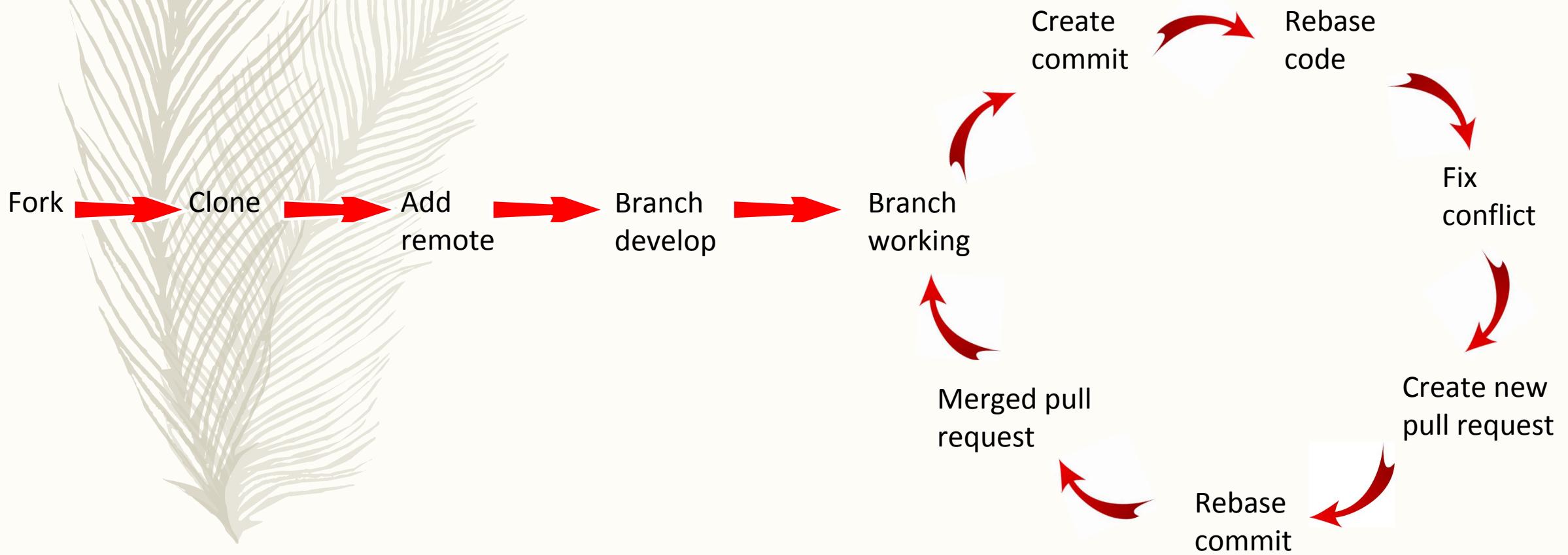


Why using GIT

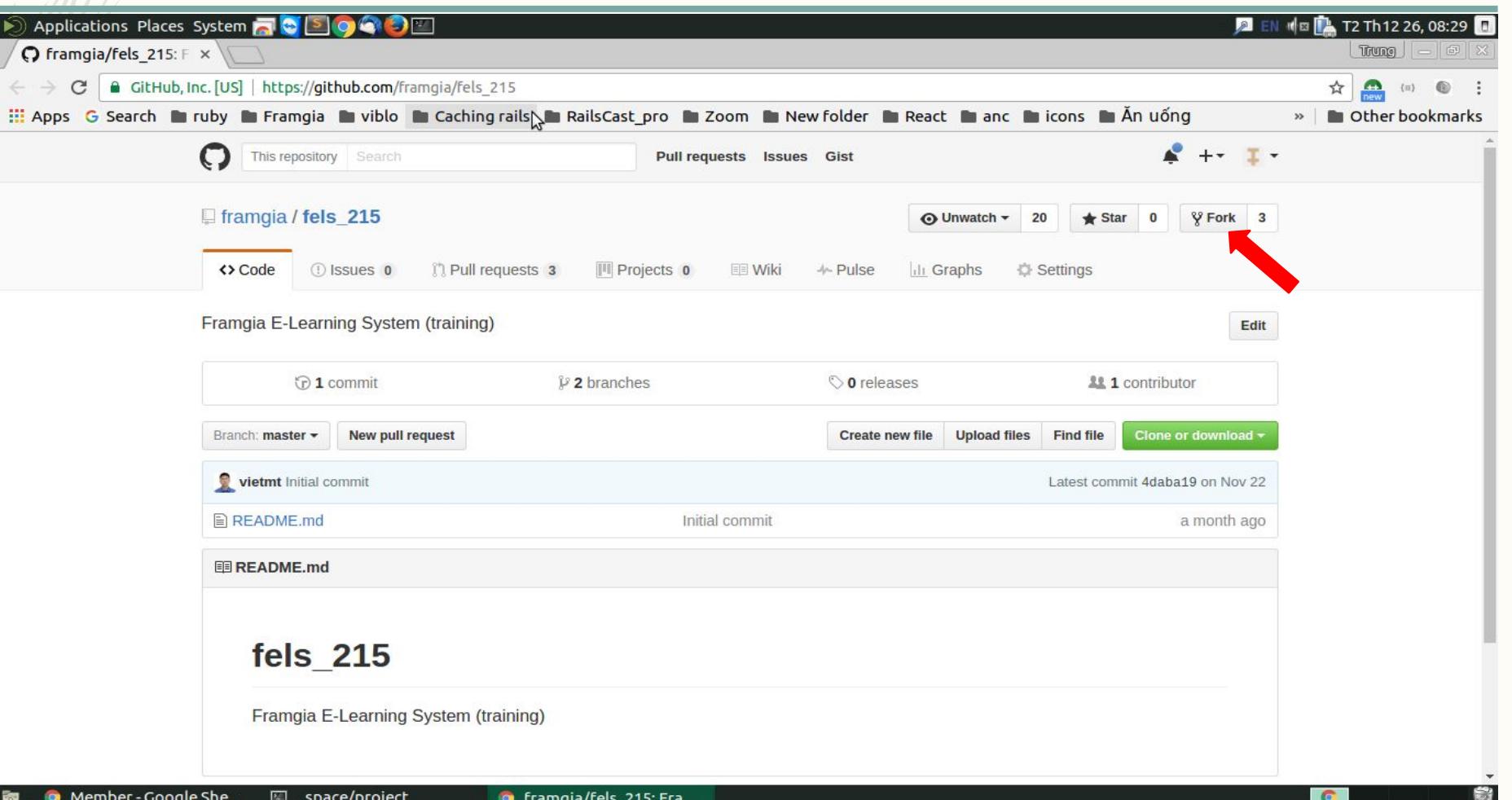
- Git easy to use, safe and fast.
- Can help workflow code in groups a lot simpler by combining the branch (branch).
- You can work anywhere because just clone the source code from the repository or clone a certain version changes from the repository, or a certain branch from the repository
- Ease of product deployment.



GIT follow



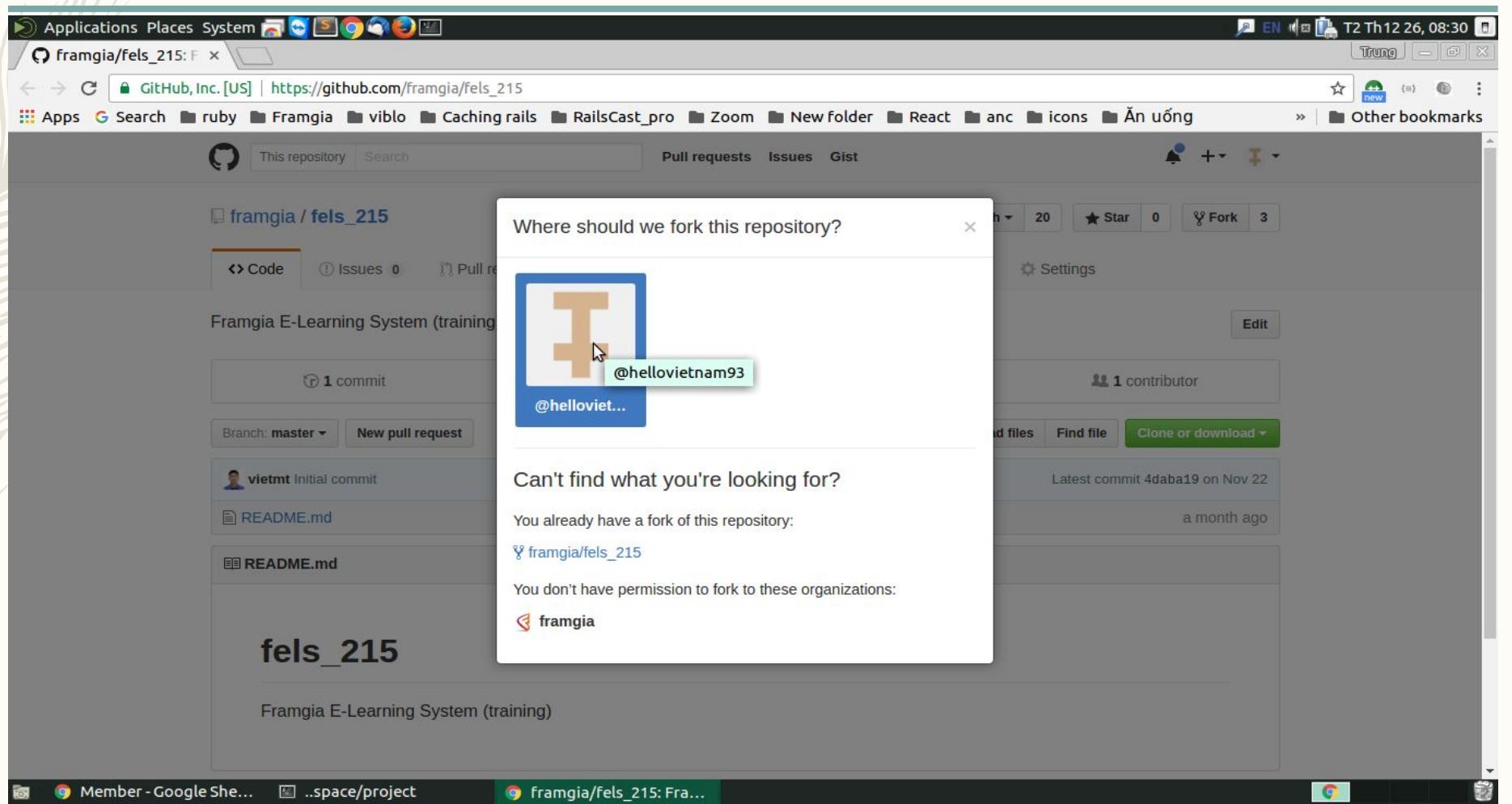
Fork



A screenshot of a Linux desktop environment showing a GitHub fork dialog. The window title is "framgia/fels_215: F...". The GitHub interface displays the repository "framgia / fels_215" which is described as "Framgia E-Learning System (training)". The repository stats show 1 commit, 2 branches, 0 releases, and 1 contributor. A red arrow points to the "Fork" button in the top right corner of the GitHub interface, which has a count of 3.

The desktop taskbar at the bottom shows other open applications: "Member - Google She...", ".space/project", and "framgia/fels_215: Fra...".

Fork



Fork



A screenshot of a Linux desktop environment showing a GitHub fork page. The window title is "hellovietnam93/fel...". The page displays the repository "hellovietnam93 / fels_215", which was forked from "framgia/fels_215". The repository has 1 commit, 2 branches, 0 releases, and 1 contributor. The README.md file shows an initial commit by "vietmt" on Nov 22. The page also includes links for creating new files, uploading files, finding files, and cloning or downloading the repository.

GitHub, Inc. [US] | https://github.com/hellovietnam93/fels_215

This repository Search Pull requests Issues Gist

hellovietnam93 / fels_215 forked from framgia/fels_215

Unwatch 1 Star 0 Fork 4

Code Pull requests 0 Projects 0 Wiki Pulse Graphs Settings

Framgia E-Learning System (training) Edit

1 commit 2 branches 0 releases 1 contributor

Branch: master New pull request

Create new file Upload files Find file Clone or download

This branch is even with framgia:master.

vietmt Initial commit Latest commit 4daba19 on Nov 22

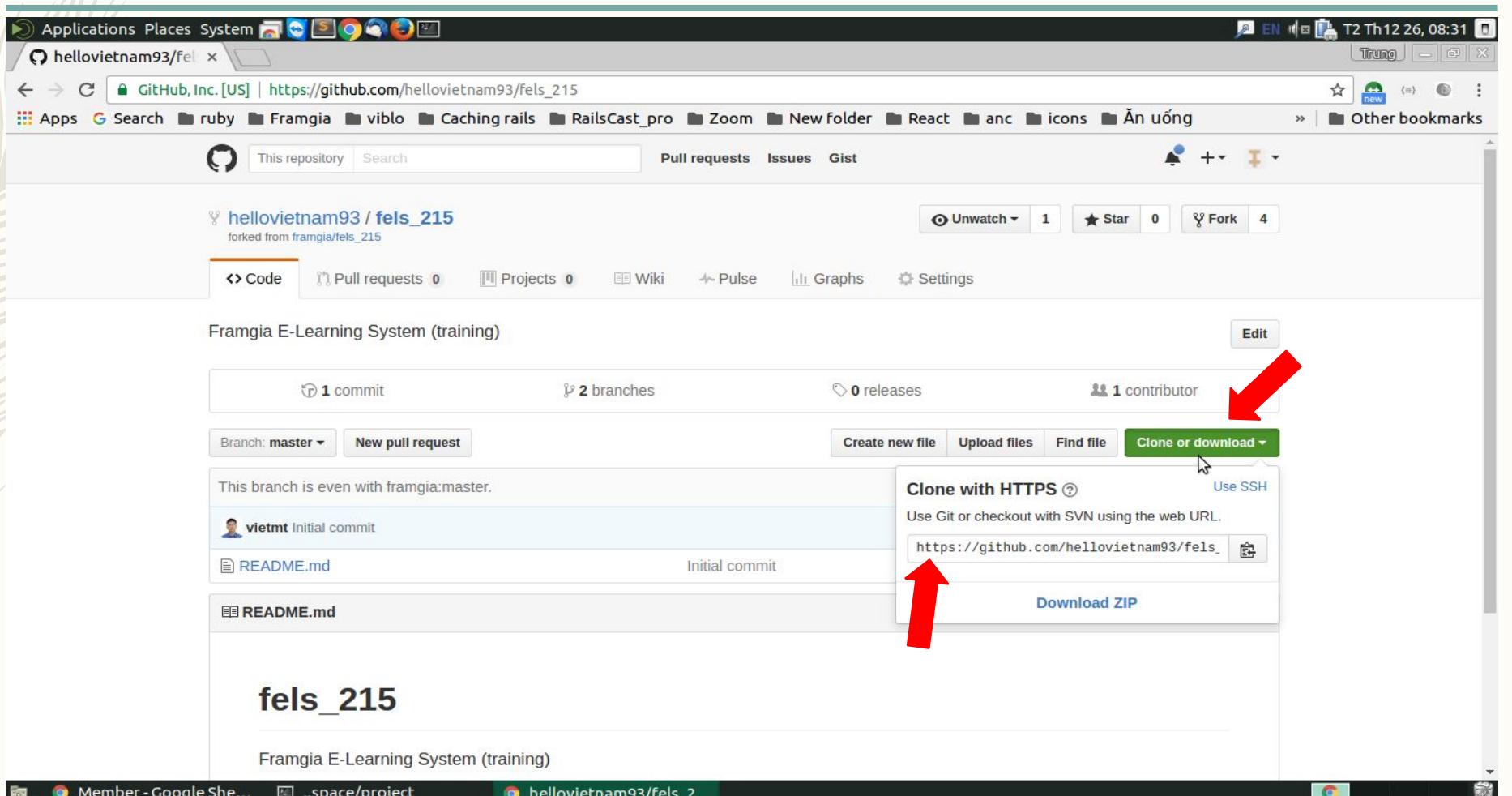
README.md Initial commit a month ago

README.md

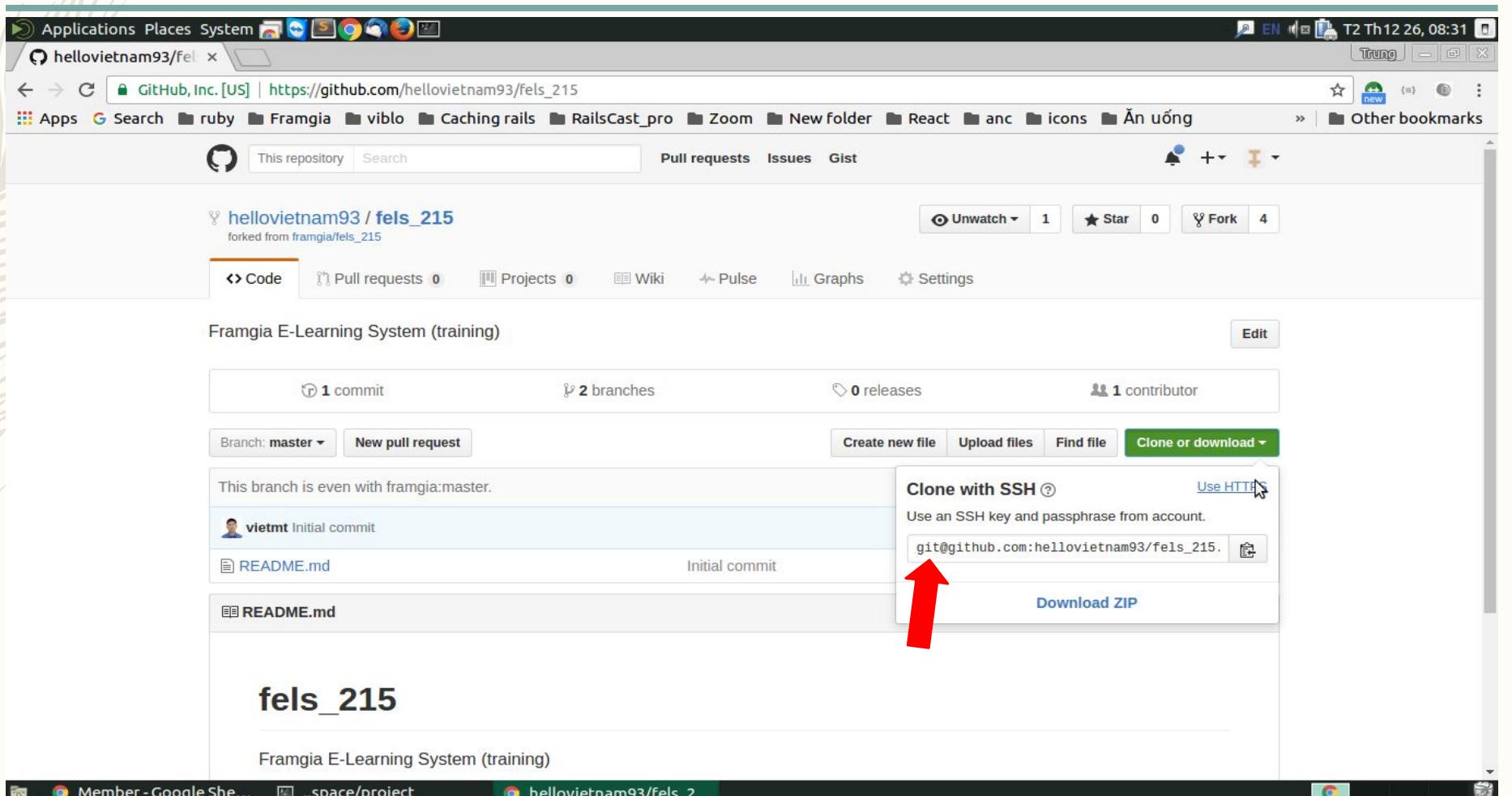
fels_215

https://github.com/hellovietnam93/fels_215/wiki

Clone



Clone



Clone

- Clone with https:

```
remote: Counting objects: 682, done.  
remote: Compressing objects: 100% (8/8), done.  
remote: Total 682 (delta 0), reused 0 (delta 0), pack-reused 674
```

- Clone with ssh:

```
Resolving deltas: 100% (309/309), done.  
Checking connectivity... done.
```

Add remote

- Kiểm tra remote ở máy local:

```
$ git remote -v
```

- Kết quả:

```
origin  git@github.com:helloworld93/fels_215.git (fetch)
origin  git@github.com:helloworld93/fels_215.git (push)
```

Add remote

- Lệnh thêm mới remote:

```
$ git remote add remote_name remote_url
```

- Ví dụ:

```
$ git remote add framgia git@github.com:framgia/fels_215.git
```

- Kết quả:

```
framgia https://github.com/framgia/fels_215 (fetch)
framgia https://github.com/framgia/fels_215 (push)
origin  git@github.com:helloworld93/fels_215.git (fetch)
origin  git@github.com:helloworld93/fels_215.git (push)
```

Checking local branches

- Kiểm tra branch đang có ở local:

```
# trungnt at trungnt in ~/working_space/project/fels_215 on git:master [8:58:20]
→git branch
* master
```

Create branch develop

- Cách sử dụng lệnh fetch:

```
$ git fetch remote_name branch_name
```

- Ví dụ:

```
$ git fetch framgia develop
```

- Kết quả:

```
From https://github.com/framgia/fels_215
 * branch            develop    -> FETCH_HEAD
 * [new branch]      develop    -> framgia/develop
```

Create branch develop

- Checkout sang nhánh develop vừa fetch về:

```
$ git checkout framgia/develop
```

- Kết quả:

```
Note: checking out 'framgia/develop'.
```

```
You are in 'detached HEAD' state. You can look around, make experimental  
changes and commit them, and you can discard any commits you make in this  
state without impacting any branches by performing another checkout.
```

```
If you want to create a new branch to retain commits you create, you may  
do so (now or later) by using -b with the checkout command again. Example:
```

```
  git checkout -b <new-branch-name>
```

```
HEAD is now at 985339f... Merge pull request #19 from dieptran00888/activity
```



Create branch develop

- Tạo nhánh mới từ nhánh vừa fetch về:

```
$ git checkout -b develop
```

- Kết quả

```
→git checkout -b develop
Switched to a new branch 'develop'
```



Create branch develop

- Sử dụng lệnh pull:
- Tạo mới một branch develop từ branch master

```
$ git checkout -b develop
```

- Pull code từ branch develop ở framgia remote về

```
$ git pull framgia develop
```

- Kết quả:

Create branch develop

```
From github.com:framgia/fels_215
 * branch      develop    -> FETCH_HEAD
Updating 4daba19..985339f
Fast-forward
 .gitignore          37 ++++
 Gemfile             29 +++
 Gemfile.lock        192 ++++++=====
 Rakefile            6 ++
 app/assets/config/manifest.js   3 +
 app/assets/images/.keep        0
 app/assets/images/original.jpg  Bin 0 -> 537210 bytes
 app/assets/javascripts/application.js 76 ++++++=====
 app/assets/javascripts/cable.js  13 +++
 app/assets/javascripts/channels/.keep 0
 app/assets/stylesheets/application.css 15 +++
 app/assets/stylesheets/custom.scss 264 ++++++=====
 app/channels/application_cable/channel.rb 4 ++
 app/channels/application_cable/connection.rb 4 ++
 app/controllers/admin/categories_controller.rb 66 ++++++=====
 app/controllers/admin/dashboard_controller.rb 7 ++
 app/controllers/admin/users_controller.rb 28 +++

```

Create new working branch



```
Applications Places System 📁 📂 🌐 🌐 🌐 🌐
trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:develop [8:38:38]
→ git checkout -b working
Switched to a new branch 'working'
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:38:50]
→ 
```

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window has a dark green background and a black title bar. The title bar displays the user's name 'trungnt' and the current directory 'trungnt@trungnt: ~/working_space/project/fels_215'. The terminal window contains a command-line session where the user runs 'git checkout -b working' to switch to a new branch named 'working'. The session ends with a prompt '# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:38:50]'. The desktop interface includes a top panel with icons for applications like Applications, Places, and System, and a system tray showing battery status, network, and time ('T2 Th12 26, 08:38'). Below the terminal, the desktop environment shows several application windows: Google Sheets, a file manager, a browser, and Pictures. A vertical scroll bar is visible on the right side of the terminal window.

Edit file



A screenshot of a Linux desktop environment showing a terminal window titled "nano Gemfile". The window displays a Ruby Gemfile with various dependencies listed. The cursor is positioned on the line starting with "gem 'mysql2'". The terminal has a dark background and includes a standard Linux desktop menu bar at the top.

```
source "https://rubygems.org"

gem "rails", "~> 5.0.0", ">= 5.0.0.1"
gem "bootstrap-sass", "3.3.6"
#gem "sqlite3"
gem "mysql2"
gem "puma", "~> 3.0"
gem "sass-rails", "~> 5.0"
gem "uglifier", ">= 1.3.0"
gem "coffee-rails", "~> 4.2"
gem "bcrypt", "3.1.11"
gem "jquery-rails"
gem "turbolinks", "~> 5"
gem "jbuilder", "~> 2.5"
gem "will_paginate", "3.1.0"
gem "bootstrap-will_paginate", "0.0.10"
gem "config"

group :development, :test do
  gem "byebug", platform: :mri
end

group :development do
  gem "web-console"
  gem "listen", "~> 3.0.5"
  gem "spring"
  gem "spring-watcher-listen", "~> 2.0.0"
end

gem "tzinfo-data", platforms: [:mingw, :mswin, :x64_mingw, :jruby]
```

At the bottom of the terminal window, there is a comprehensive list of keyboard shortcuts for the nano editor.

| | | | | | | | | | | | | | | | | | |
|----|----------|----|-----------|----|----------|----|------------|----|----------|----|------------|----|-----------|-----|------------|-----|--------------|
| ^G | Get Help | ^O | Write Out | ^W | Where Is | ^K | Cut Text | ^J | Justify | ^C | Cur Pos | ^Y | Prev Page | M-\ | First Line | M-W | WhereIs Next |
| ^X | Exit | ^R | Read File | ^V | Replace | ^U | Uncut Text | ^T | To Spell | ^A | Go To Line | ^V | Next Page | M-/ | Last Line | M-] | To Bracket |

The taskbar at the bottom shows several open applications, including Google Sheets, nano, and a browser window for "framgia/fels_215: Fra...".

Check status

- Kiểm tra trạng thái của nhánh hiện tại:

```
$ git status
```

- Kết quả nếu có thay đổi:

```
On branch working
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   Genfile

no changes added to commit (use "git add" and/or "git commit -a")
```



Add file change

- Lệnh để add file thay đổi:

```
$ git add .
```

- Add tất cả các file thay đổi và thêm mới

```
$ git add -A
```

- Add tất cả các file thay đổi, thêm mới và bị xóa

```
$ git add filename
```

- Add file theo tên được chỉ định

```
$ git rm -r --cache filename
```

- Xóa file khỏi bộ nhớ cache (cách để xóa file khỏi git)

Add file change



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:41:29]
→git add .
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:41:32]
→git status
On branch working
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   Gemfile

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:41:35]
→
```

[Member - Google She... .ject/fels_215 framgia/fels_215: Fra... Pictures]



Create new commit

- Sử dụng lệnh:

```
$ git commit -m "tên commit"
```

- Ví dụ:

```
$ git commit -m "Working"
```

- Kết quả:

```
[working c4a8ac3] Working  
1 file changed, 2 insertions(+), 1 deletion(-)
```

Logging



```
Applications Places System git log
File Edit View Search Terminal Help
commit a683cde317f5e12788f745f38e721850772ff5e5
Author: TrungNT <hellovietnam93@gmail.com>
Date:   Mon Dec 26 08:42:14 2016 +0700

    Working

    Working

commit 985339fe601bf87707bb17111751ec83789a64c1
Merge: 3b5bf72 cdf1fa8
Author: TrungNT <hellovietnam93@gmail.com>
Date:   Mon Dec 12 16:30:47 2016 +0700

    Merge pull request #19 from dieptran00888/activity

    View activity

commit cdf1fa8e1244cc8130b94e998d1d5362fb24bb94
Author: dieptran <dieptx.ptit@gmail.com>
Date:   Fri Dec 9 08:06:07 2016 +0700

    View activites

commit 3b5bf724ba76c1cec631ad6f95d9632c087b8300
Merge: e81aec7 d945d61
Author: TrungNT <hellovietnam93@gmail.com>
Date:   Mon Dec 12 14:21:07 2016 +0700

    Merge pull request #20 from dieptran00888/fix-interface

    fix interface admin

commit d945d61581e7812eb4ca7e97ebcd97bc901e800a
Author: dieptran <dieptx.ptit@gmail.com>
Date:   Fri Dec 9 14:18:07 2016 +0700

    fix interface

:[]
```

[6]ChatWork - Educati... git Pictures trungnt



Logging

- Xem log thu gọn:

```
$ git log --oneline [-line_number]
```

- Ví dụ:

```
$ git log --oneline -5
```

- Kết quả:

```
a683cde Working
985339f Merge pull request #19 from dieptran00888/activity
cdf1fa8 View activites
3b5bf72 Merge pull request #20 from dieptran00888/fix-interface
d945d61 fix interface
(END)
```

Rebase code



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:23:29]
→ git checkout develop
Switched to branch 'develop'

# trungnt at trungnt in ~/working_space/project/fels_215 on git:develop [8:23:55]
→ git pull framgia develop
From https://github.com/framgia/fels_215
 * branch            develop    -> FETCH_HEAD
Already up-to-date.

# trungnt at trungnt in ~/working_space/project/fels_215 on git:develop [8:24:01]
→ git checkout working
Switched to branch 'working'

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:24:04]
→ 
```

Rebase code



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:53:51]
→git rebase develop
Current branch working is up to date.

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:54:18]
→
```

The screenshot shows a terminal window on a Linux desktop. The terminal title is "trungnt@trungnt: ~/working_space/project/fels_215". The user has run the command "git rebase develop". The output shows that the current branch "working" is up to date. The terminal window is part of a desktop environment with a green header bar containing icons for Applications, Places, System, and network status. The desktop taskbar at the bottom shows several open applications: Google Sheets, a file manager, a browser, and a terminal window titled "Working by hellovietn...". The desktop environment appears to be Unity.

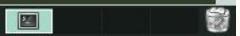
Fix conflict



```
# trungnt at trungnt in ~/working_space/project/ftms on git:1.2.1 [8:54:34]
→git rebase develop
First, rewinding head to replay your work on top of it...
Applying: Authorize user
Using index info to reconstruct a base tree...
M    Gemfile
M    Gemfile.lock
M    app/controllers/users_controller.rb
M    app/models/user.rb
Falling back to patching base and 3-way merge...
Auto-merging app/models/user.rb
Auto-merging app/controllers/users_controller.rb
Auto-merging Gemfile.lock
Auto-merging Gemfile
CONFLICT (content): Merge conflict in Gemfile
error: Failed to merge in the changes.
Patch failed at 0001 Authorize user
The copy of the patch that failed is found in: .git/rebase-apply/patch

When you have resolved this problem, run "git rebase --continue".
If you prefer to skip this patch, run "git rebase --skip" instead.
To check out the original branch and stop rebasing, run "git rebase --abort".

# trungnt at trungnt in ~/working_space/project/ftms on git:4f9a4d8 [8:55:01]
→
```



Fix conflict



```
# trungnt at trungnt in ~/working_space/project/ftms on git:4f9a4d8 ✘ [8:55:01]
→ git status
rebase in progress; onto 4f9a4d8
You are currently rebasing branch '1.2.1' on '4f9a4d8'.
  (fix conflicts and then run "git rebase --continue")
  (use "git rebase --skip" to skip this patch)
  (use "git rebase --abort" to check out the original branch)

Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   Gemfile.lock
    modified:   app/controllers/application_controller.rb
    modified:   app/controllers/users_controller.rb
    modified:   app/models/user.rb
    new file:   app/policies/application_policy.rb
    new file:   app/policies/user_policy.rb

Unmerged paths:
  (use "git reset HEAD <file>..." to unstage)
  (use "git add <file>..." to mark resolution)

    both modified:  Gemfile

# trungnt at trungnt in ~/working_space/project/ftms on git:4f9a4d8 ✘ [8:55:26]
→ 
```

The screenshot shows a terminal window on a Linux desktop environment. The terminal title is "trungnt@trungnt: ~/working_space/project/ftms". The command "git status" is being run, showing a rebase in progress for branch "1.2.1" onto commit "4f9a4d8". It lists changes to be committed, including modifications to Gemfile.lock, application_controller.rb, users_controller.rb, and user.rb, along with two new files: application_policy.rb and user_policy.rb. It also shows an unmerged path for Gemfile. The terminal prompt ends with a red "→" character.

Fix conflict

- Tìm đến các file có chứa các đoạn:

```
<<<<<<< (code ở branch muỐn rebase)
[code]
=====
[code]
>>>>>>> (code ở branch hiện tại đang đứng)
```

- Ví dụ:

```
<<<<< 4f9a4d8917dfcf799249fd564957a6edea103274
gem "cloudinary"
gem "roo"
gem "activerecord-import"
=====
gem "pundit"
>>>>> Authorize user
```



Fix conflict

- Sau khi sửa xong hết các đoạn bị conflict. Thực hiện các lệnh sau:
- Add các file thay đổi bằng lệnh:

```
$ git add . / -A / filename
```

- Tiếp theo sử dụng lệnh:

```
$ git rebase --continue
```

- Ví dụ:

Fix conflict



```
# trungnt at trungnt in ~/working_space/project/ftms on git:4f9a4d8 ✘ [8:28:33]
→ git add .

# trungnt at trungnt in ~/working_space/project/ftms on git:4f9a4d8 ✘ [8:28:36]
→ git rebase --continue
Applying: Authorize user
Applying: Authorize course
Using index info to reconstruct a base tree...
M app/controllers/user_courses_controller.rb
Falling back to patching base and 3-way merge...
Auto-merging app/controllers/user_courses_controller.rb
CONFLICT (content): Merge conflict in app/controllers/user_courses_controller.rb
error: Failed to merge in the changes.
Patch failed at 0002 Authorize course
The copy of the patch that failed is found in: .git/rebase-apply/patch

When you have resolved this problem, run "git rebase --continue".
If you prefer to skip this patch, run "git rebase --skip" instead.
To check out the original branch and stop rebasing, run "git rebase --abort".

# trungnt at trungnt in ~/working_space/project/ftms on git:744490e ✘ [8:28:41]
→ 
```

Fix conflict



```
Applications Places System trungnt@trungnt: ~/working_space/project/ftms
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/ftms on git:4f9a4d8 ✘ [8:27:28]
→ git rebase --abort
# trungnt at trungnt in ~/working_space/project/ftms on git:1.2.1 ● [8:27:38]
→ 
```

The screenshot shows a Linux desktop environment with a terminal window open. The terminal title is "trungnt@trungnt: ~/working_space/project/ftms". The user has run the command "git rebase --abort" after being prompted by a conflict. The terminal shows two entries: the first entry is a redacted command, and the second entry shows the user pressing the enter key again. The desktop interface includes a menu bar with "Applications", "Places", "System", and various icons. The system tray shows battery status, network, and time ("T3 Th12 27, 08:27"). The desktop background is a dark green color.

Push to remote



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:42:14]
→ git push origin working
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 312 bytes | 0 bytes/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To git@github.com:helloworld93/fels_215.git
 * [new branch]      working -> working

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:42:43]
→ 
```

The screenshot shows a Linux desktop environment with a dark green terminal window open. The terminal title is "trungnt@trungnt: ~/working_space/project/fels_215". The user has run the command "git push origin working", which is shown in the history. The output indicates that 3 objects were counted, compressed, and written, totaling 312 bytes. The remote repository "git@github.com:helloworld93/fels_215.git" was reached, and a new branch named "working" was pushed. The terminal prompt ends with a red square icon and the text "→".

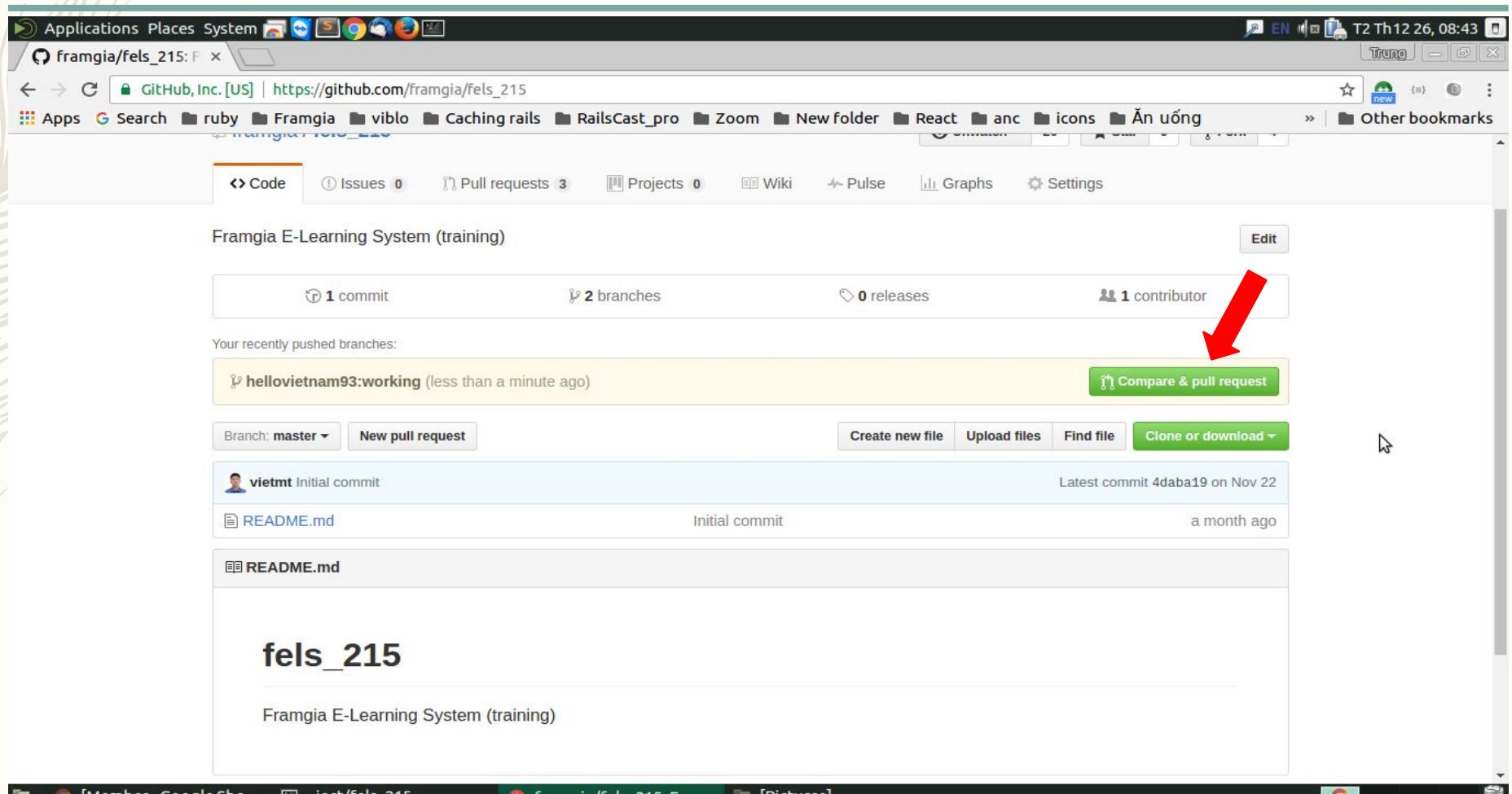


Create pull request

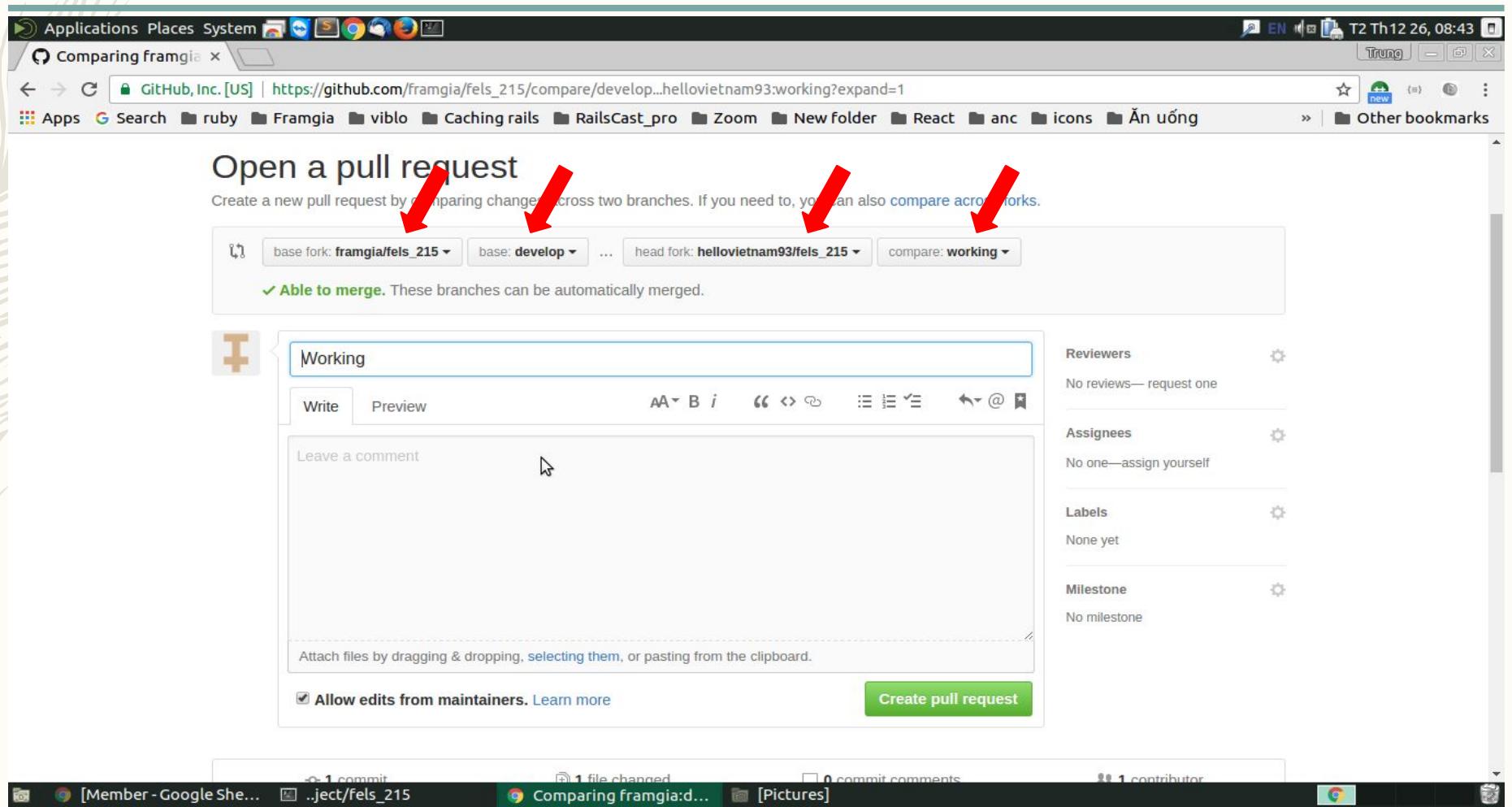


- 1 commit / 1 pull request
- < 15 files / 1 pull request

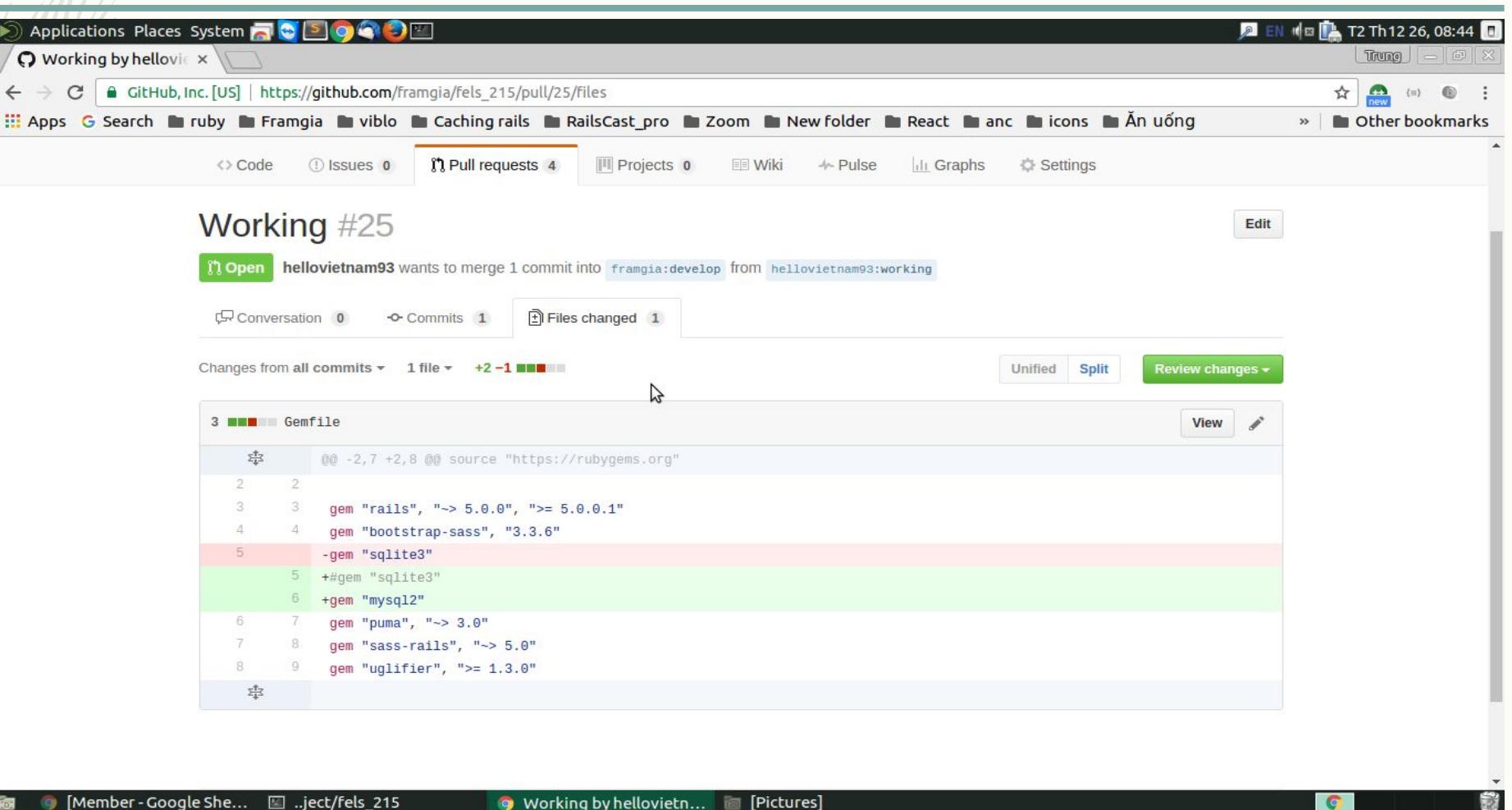
Create pull request



Create pull request



Create pull request

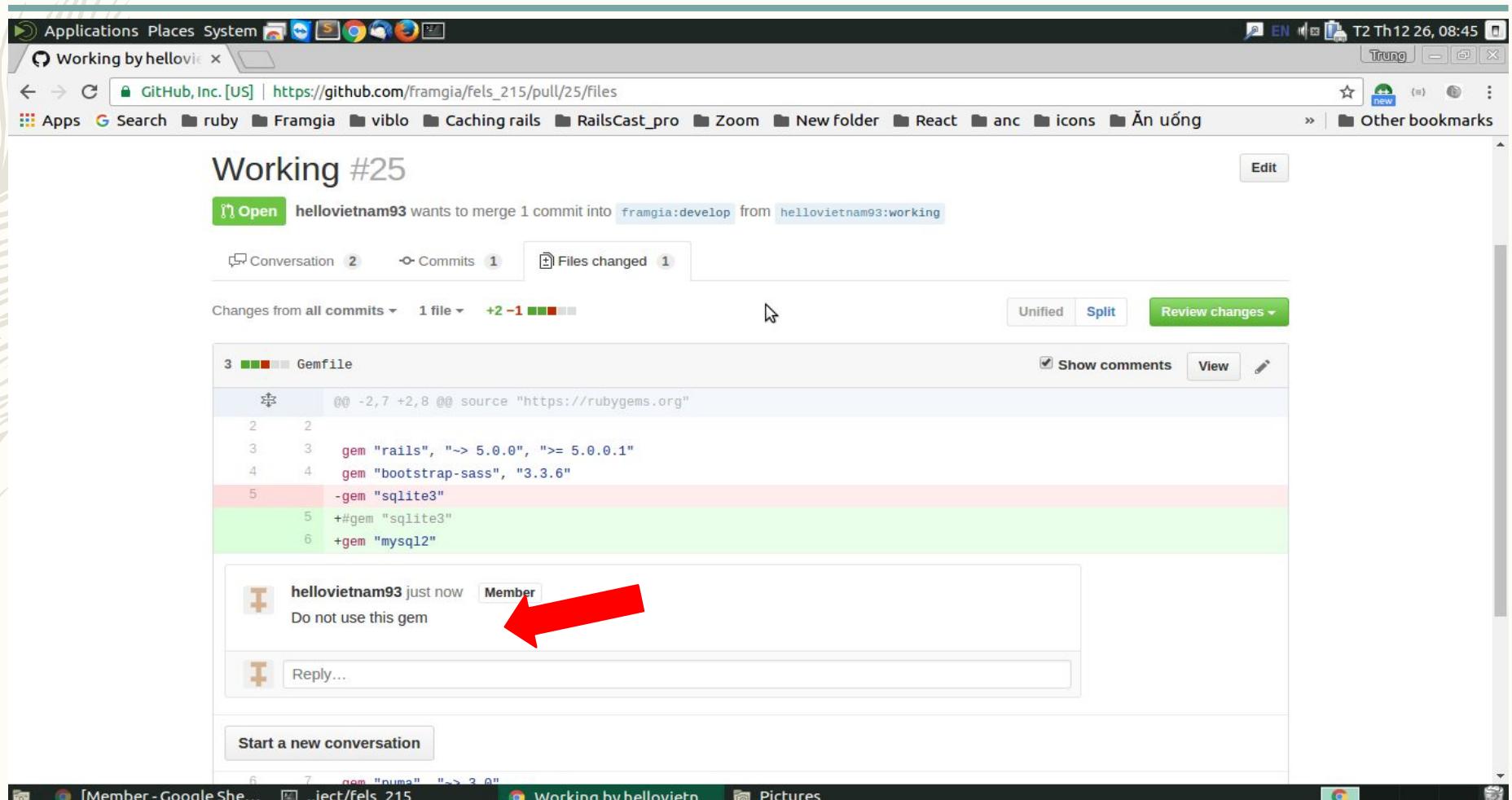


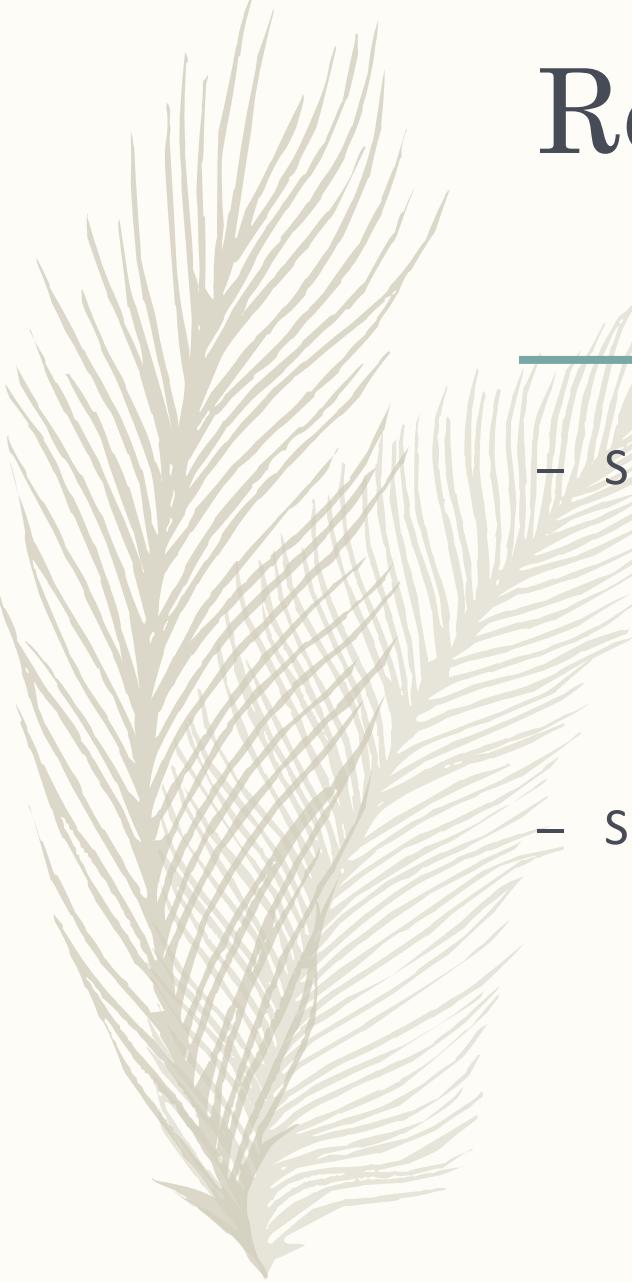
The screenshot shows a Linux desktop environment with a dark theme. A window titled "Working by hellovietnam93" is open in a web browser, displaying a GitHub pull request page. The URL in the address bar is https://github.com/framgia/fels_215/pull/25/files. The page title is "Working #25". A green button labeled "Open" indicates that hellovietnam93 wants to merge 1 commit into the framgia:develop branch from hellovietnam93:working. Below the title, there are tabs for "Conversation 0", "Commits 1", and "Files changed 1". The "Files changed" tab is selected, showing a diff view of the Gemfile. The diff highlights changes from all commits, showing 1 file with +2 -1 lines. The code changes are as follows:

```
3 3 Gemfile
 2 2
 3 3   gem "rails", "~> 5.0.0", ">= 5.0.0.1"
 4 4   gem "bootstrap-sass", "3.3.6"
 5 5 -gem "sqlite3"
 5 5 +#gem "sqlite3"
 6 6 +gem "mysql2"
 7 7   gem "puma", "~> 3.0"
 8 8   gem "sass-rails", "~> 5.0"
 9 9   gem "uglifier", ">= 1.3.0"
```

The bottom of the screen shows the desktop taskbar with icons for Google Sheets, a project folder, the browser window, and Pictures.

Create pull request





Rebase commit

- Sử dụng lệnh “rebase –i”:
- Sử dụng lệnh “commit --amend”:



Rebase -i

- Cách 1: sử dụng lệnh “rebase –i”:

```
$ git rebase -i develop
```

- Hoặc

```
$ git rebase -i HEAD~number_commit
```

- Ví dụ:

```
$ git rebase -i HEAD~2
```

Rebase -i



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:41:29]
→ git add .

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:41:32]
→ git status
On branch working
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   Gemfile

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:41:35]
→ 
```

[Member - Google Sheet] ..ject/fels_215 framgia/fels_215: Fra... Pictures

Rebase -i



```
Applications Places System 📄 📤 📺 🌐 🏠 🎨 trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ✘ [8:41:35]
→ git commit -m "Working"
[working c4a8ac3] Working
  1 file changed, 2 insertions(+), 1 deletion(-)

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ● [8:42:14]
→ 
```

The screenshot shows a Linux desktop environment with a terminal window open. The terminal window has a dark background and light-colored text. It displays a command-line session where the user has just committed a change to a Git repository named 'fels_215'. The commit message is 'Working'. The terminal window is titled 'trungnt@trungnt: ~/working_space/project/fels_215'. The desktop interface includes a top bar with icons for applications like Applications, Places, System, and a browser, along with system status indicators like battery level and network connection. The bottom of the screen shows a dock with various application icons.

Rebase -i



```
git log --oneline
```

```
fd09d66 Working
2927f65 Working
985339f Merge pull request #19 from dieptran00888/activity
cdf1fa8 View activites
3b5bf72 Merge pull request #20 from dieptran00888/fix-interface
d945d61 fix interface
e81aec7 Merge pull request #23 from dieptran00888/filter-words
082588a Merge pull request #21 from dieptran00888/delete-category
ea44214 Merge pull request #22 from dieptran00888/manage-users
11d803f filter words
8d5dad8 Manage users
db38c44 admin delete category
67defab Merge pull request #17 from dieptran00888/fix-create-word-answer
27458fe fix create word answer
3722b1b Merge pull request #15 from annt49/following-users
93272aa follow users
b78ab7a Merge pull request #16 from dieptran00888/do-lessen
df3339c User do lessnen
71a2537 Merge pull request #14 from dieptran00888/create-lesson-pull
1fb8bcd User create lesson
384525d Merge pull request #11 from dieptran00888/create-lesson
baec771 Fix i18n
0548721 Merge pull request #13 from annt49/searching-words
a1be1d9 search all word
6205a72 Merge pull request #12 from annt49/searching-categories
b6edcde searching-category
450601e Merge pull request #10 from annt49/updating-users
26cf0b8 updating-users
bbfeace Merge pull request #9 from dieptran00888/fix-create-edit-category
49fd929 Fix create edit category
71c7441 Merge pull request #8 from dieptran00888/create-word-answer
93e9941 Admin reate word and answer
4ff5674 Merge pull request #7 from dieptran00888/feature-create-edit-category
3a00a01 Create and edit category
0dd3b4c Merge pull request #6 from Diemly09/sign-up
0993f7a sign up
969f495 Merge pull request #5 from dieptran00888/login
4ac6cea Login
:[]
```

[Member - Google She... git Working by hellovietn... [Pictures]]

Rebase -i



```
git rebase -i develop
pick 2927f65 Working
pick fd09d66 Working

# Rebase 985339f..fd09d66 onto 985339f (2 command(s))
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out

^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text      ^J Justify      ^C Cur Pos      ^Y Prev Page    M-\ First Line   M-W WhereIs Next
^X Exit          ^R Read File    ^\ Replace      ^U Uncut Text    ^T To Spell     ^ Go To Line    ^V Next Page    M-/ Last Line    M-] To Bracket
^A Read 21 lines [Member - Google She... git Working by hellovietn... [Pictures]
```

Rebase -i

File Edit View Search Terminal Help

GNU nano 2.5.3 File: /home/trungnt/working_space/project/fels_215/.git/rebase-merge/git-rebase-todo Modified

```
pick d3c9d1a Working
s ae29a7f Working

# Rebase 985339f..ae29a7f onto 985339f (2 command(s))
#
# Commands:
# p, pick = use commit
# r, reword = use commit, but edit the commit message
# e, edit = use commit, but stop for amending
# s, squash = use commit, but meld into previous commit
# f, fixup = like "squash", but discard this commit's log message
# x, exec = run command (the rest of the line) using shell
# d, drop = remove commit
#
# These lines can be re-ordered; they are executed from top to bottom.
#
# If you remove a line here THAT COMMIT WILL BE LOST.
#
# However, if you remove everything, the rebase will be aborted.
#
# Note that empty commits are commented out
```

Rebase -i



```
git rebase -i develop
File Edit View Search Terminal Help
GNU nano 2.5.3          File: /home/trungnt/working_space/project/fels_215/.git/COMMIT_EDITMSG

# This is a combination of 2 commits.
# The first commit's message is:

Working

# This is the 2nd commit message:

Working

# Please enter the commit message for your changes. Lines starting
# with '#' will be ignored, and an empty message aborts the commit.
#
# Date:      Mon Dec 26 08:42:14 2016 +0700
#
# interactive rebase in progress; onto 985339f
# Last commands done (2 commands done):
#   pick 2927f65 Working
#   s fd09d66 Working
# No commands remaining.
# You are currently editing a commit while rebasing branch 'working' on '985339f'.
#
# Changes to be committed:
#       modified:   Gemfile
#
```

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos ^Y Prev Page M-\ First Line M-W WhereIs Next
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell ^ Go To Line ^V Next Page M-/ Last Line M-] To Bracket

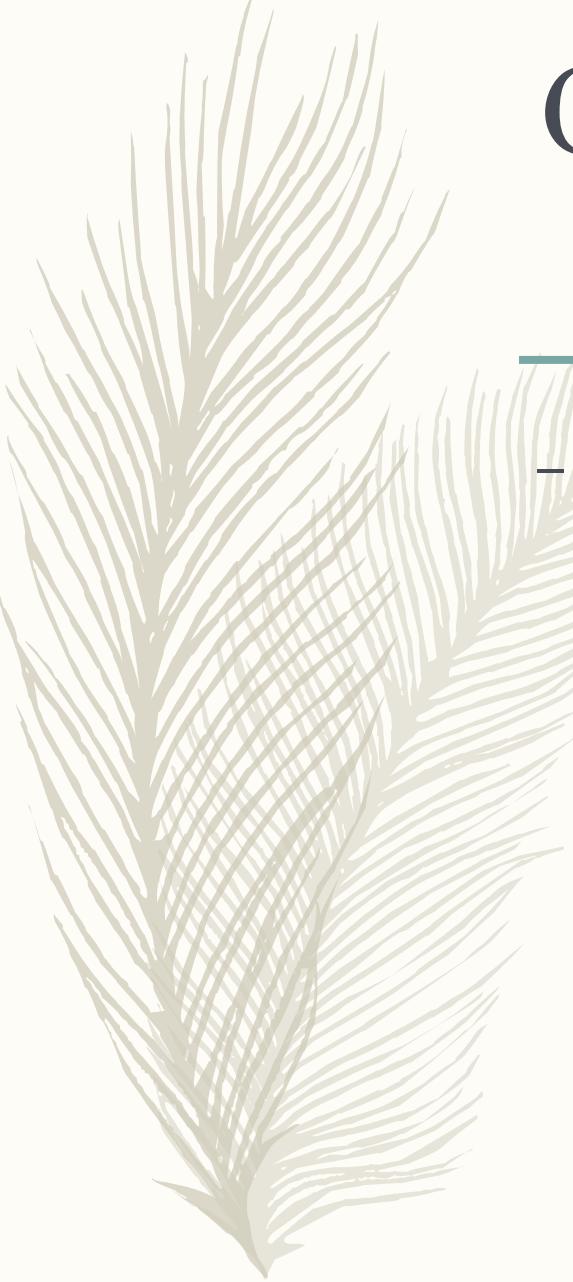
[Member - Google She... git Working by hellovietn... Pictures]

Rebase -i



```
git log --oneline -5
a683cde Working
985339f Merge pull request #19 from dieptran00888/activity
cdf1fa8 View activites
3b5bf72 Merge pull request #20 from dieptran00888/fix-interface
d945d61 fix interface
(END)
```

The image shows a terminal window on a Linux desktop environment. The terminal title bar says "git log --oneline -5". The window displays a list of five git commits. The first commit, "Working", is the current commit being edited, indicated by a cursor arrow pointing to its line. The other four commits are listed below it. The desktop interface includes a top panel with icons for Applications, Places, System, and various system status indicators like battery and network. The bottom taskbar shows open applications: Google Sheets, git, a browser tab for "Working by hellovietn...", and Pictures.



Commit --amend

- Cách 2: sử dụng lệnh “commit --amend”:

```
$ git commit --amend
```

Rebase commit



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ✘ [9:59:26]
→ git add .
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ✘ [9:59:37]
→ git commit --amend
[working 0597733] Working
Date: Mon Dec 26 08:42:14 2016 +0700
1 file changed, 1 insertion(+)
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ● [10:00:03]
→ 
```

The screenshot shows a terminal window on a Linux desktop environment. The terminal title is "trungnt@trungnt: ~/working_space/project/fels_215". The user has run a series of commands to amend the last commit. The commands shown are: "git add .", "git commit --amend", and then a final command that starts with "# trungnt at trungnt in ~/working_space/project/fels_215 on git:working". The terminal interface includes a menu bar with "File Edit View Search Terminal Help", a toolbar with icons for Applications, Places, System, and various system status indicators like battery and network, and a bottom dock with icons for ChatWork, a browser tab, Pictures, and the terminal itself.

Rebase commit



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:53:39]
→ git push origin working
To git@github.com:helloworld93/fels_215.git
 ! [rejected]      working -> working (non-fast-forward)
error: failed to push some refs to 'git@github.com:helloworld93/fels_215.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. Integrate the remote changes (e.g.
hint: 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:53:51]
→ 
```

The screenshot shows a terminal window on a Linux desktop environment. The terminal title is "trungnt@trungnt: ~/working_space/project/fels_215". The user has run the command "git push origin working". The output shows that the push was rejected because the local branch "working" is not a fast-forward of the remote branch "origin/working". It provides hints on how to resolve the conflict by pulling changes from the remote branch before pushing again.

Rebase commit



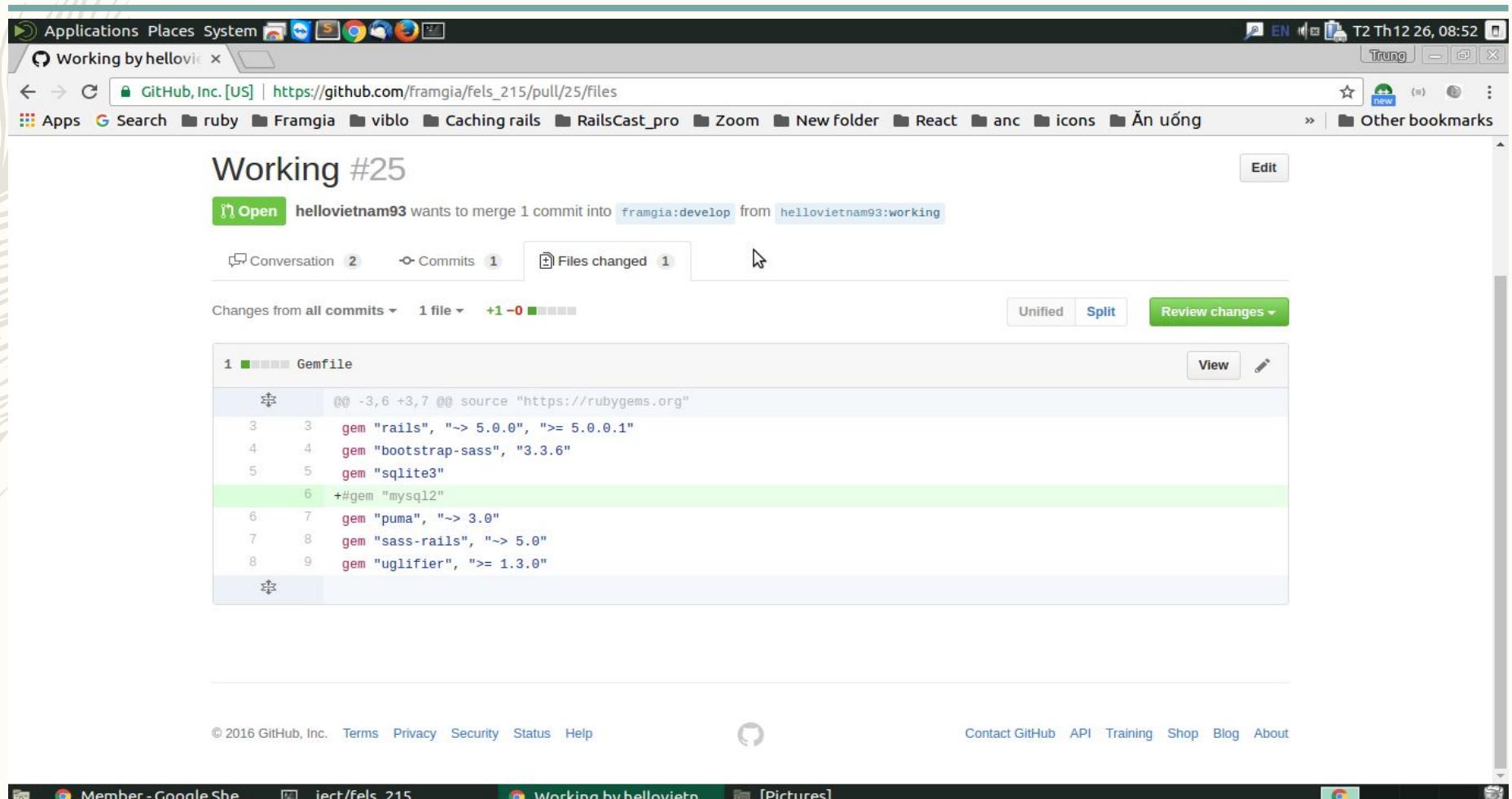
```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:51:54]
→ git push origin working -f
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 310 bytes | 0 bytes/s, done.
Total 3 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To git@github.com:helloworld93/fels_215.git
 + c4a8ac3...a683cde working -> working (forced update)

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:52:16]
→ 
```

Member - Google Sheets ..ject/fels_215 Working by helloworld93 Pictures

Rebase commit



The screenshot shows a Linux desktop environment with a dark theme. A window titled "Working by hellovietnam93" is open in a web browser, displaying a GitHub pull request. The URL in the address bar is https://github.com/framgia/fels_215/pull/25/files. The pull request is titled "Working #25" and is from "hellovietnam93" to "framgia:develop". The "Files changed" tab is selected, showing one file, "Gemfile", with 1 insertion (+1) and 0 deletions (-0). The code changes are as follows:

```
1 Gemfile
  @@ -3,6 +3,7 @@
  3   gem "rails", "~> 5.0.0", ">= 5.0.0.1"
  4   gem "bootstrap-sass", "3.3.6"
  5   gem "sqlite3"
  6   +#gem "mysql2"
  7   gem "puma", "~> 3.0"
  8   gem "sass-rails", "~> 5.0"
  9   gem "uglifier", ">= 1.3.0"
```

At the bottom of the page, there are links for "Contact GitHub", "API", "Training", "Shop", "Blog", and "About".



Other commands

- Lệnh stash:
 - Lưu lại các thay đổi vào bộ nhớ tạm
 - Cơ chế giống như lưu vào trong stack: “first in last out”
 - Chỉ có thể lưu được các file bị thay đổi hoặc bị xóa
 - Không thể lưu được các file thêm mới
- Lệnh thực hiện:
\$ git stash save
- Hoặc

\$ git stash

```
Saved working directory and index state WIP on working: f0407dd Working  
HEAD is now at f0407dd Working
```



Other commands

- Lấy code đã được lưu ra:

```
$ git stash pop
```

- Ví dụ:

```
On branch working
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

        modified:   Gemfile

no changes added to commit (use "git add" and/or "git commit -a")
Dropped refs/stash@{0} (d56131d70b7ba4b5b8ca6cfbb11484a90a230eec)
```

Other commands



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:58:15]
→git status
On branch working
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   Gemfile

no changes added to commit (use "git add" and/or "git commit -a")

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:58:34]
→git checkout .
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:58:38]
→git status
On branch working
nothing to commit, working directory clean

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [8:58:42]
→
```



Other commands



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:02:21]
→ git checkout 985339f Gemfile

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:02:31]
→ git status
On branch working
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    modified:   Gemfile

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:02:35]
→ 
```

The screenshot shows a terminal window on a Linux desktop environment. The terminal title is "trungnt@trungnt: ~/working_space/project/fels_215". The user has run several git commands: "git checkout 985339f Gemfile", "git status", and "git reset HEAD". The terminal uses a dark green background with light green text for output. The desktop interface includes a top bar with application icons and a system tray showing battery level, signal strength, and the date/time (T2 Th12 26, 09:02). The bottom of the screen shows the desktop's taskbar with various application icons.



Other commands

- Reset
- Soft reset

```
$ git reset HEAD_COMMIT
```

- *Unstage tất cả các file của commit hiện tại so với commit muốn reset về*
- Hard reset

```
$ git reset --hard HEAD_COMMIT
```

- *Xóa toàn bộ các thay đổi từ commit hiện tại so với commit muốn reset về*

Other commands



```
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:00:28]
→ git reset 985339f
Unstaged changes after reset:
M      Gemfile

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ✘ [9:00:32]
→ git status
On branch working
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git checkout -- <file>..." to discard changes in working directory)

    modified:   Gemfile

no changes added to commit (use "git add" and/or "git commit -a")
# trungnt at trungnt in ~/working_space/project/fels_215 on git:working ✘ [9:00:35]
→ 
```

Member - Google Sheets ..ject/fels_215 Working by hellovietn... Pictures ~/working_space/proj...

Other commands



```
Applications Places System trungnt@trungnt: ~/working_space/project/fels_215
File Edit View Search Terminal Help

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:01:07]
→ git reset --hard 985339f
HEAD is now at 985339f Merge pull request #19 from dieptran00888/activity

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:01:18]
→ git status
On branch working
nothing to commit, working directory clean

# trungnt at trungnt in ~/working_space/project/fels_215 on git:working [9:01:25]
→ 
```

Member - Google She... .ject/fels_215 Working by hellovietn... [Pictures] ~/working_space/proj...

Other commands



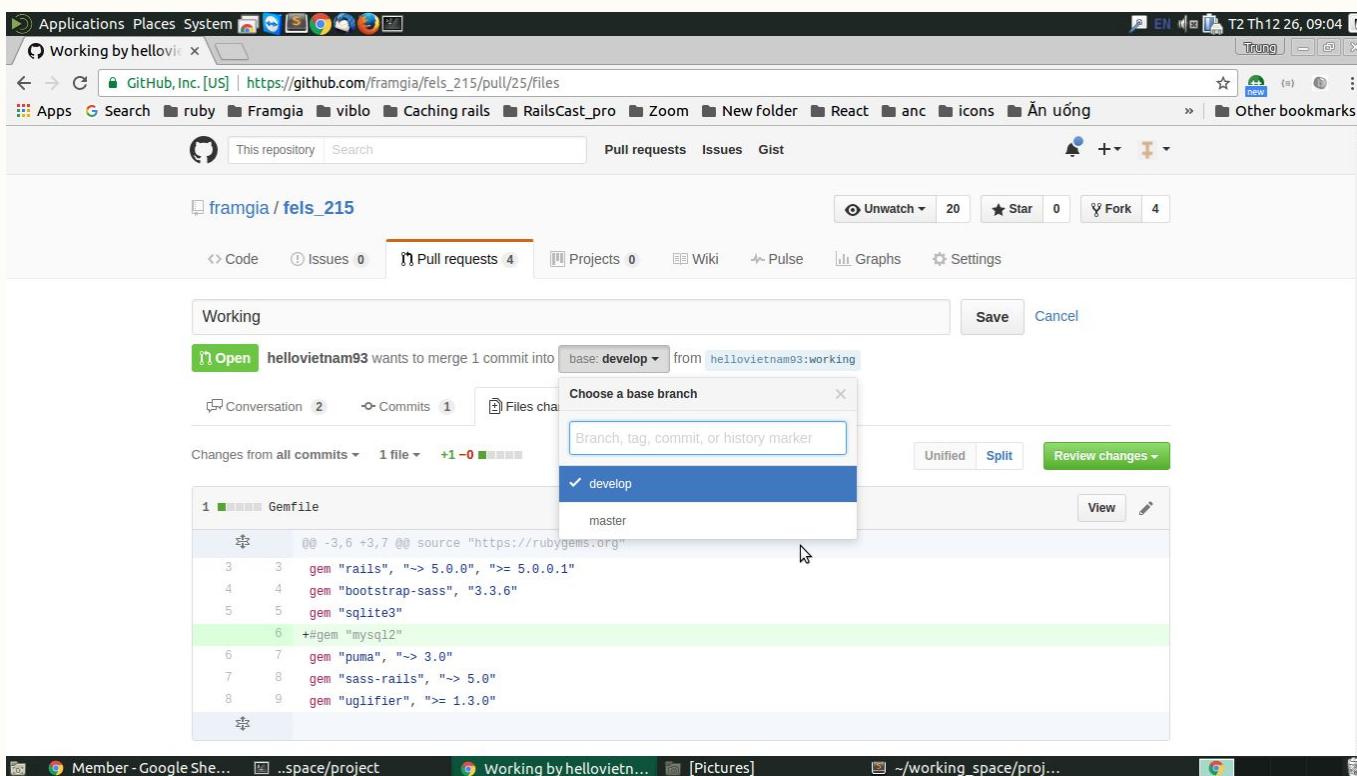
```
git diff
```

```
diff --git a/Gemfile b/Gemfile
index e953e42..247027d 100644
--- a/Gemfile
+++ b/Gemfile
@@ -2,7 +2,7 @@ source "https://rubygems.org"

gem "rails", "~> 5.0.0", ">= 5.0.0.1"
gem "bootstrap-sass", "3.3.6"
gem "sqlite3"
+#gem "sqlite3"
gem "puma", "~> 3.0"
gem "sass-rails", "~> 5.0"
gem "uglifier", ">= 1.3.0"
(END)
```

Member - Google She... git Working by hellovietn... [Pictures] ~/working_space/proj...

Tip





Tip

- Fetch pull request:
- Add đoạn config sau vào file “.git/config”:

```
[remote "pullrequest"]
url = remote_url
fetch = +refs/pull/*:refs/remotes/pullrequest/pr/*
```

- Dùng lệnh sau để kéo pull request về:

```
$ git fetch pull_request
```