


SeSAC 4기, 

## 웹 풀스택 과정 팀프로젝트 안내

WITH 팀 리뷰드



# Github 사용하기

# 1. Organization 만들기

Choose a plan

## Pick a plan for your organization

How often do you want to pay?

Monthly Yearly [Get 1 month free](#)

### Free

The basics for individuals and organizations

\$0

per year forever

**Create a free organization**

- > Unlimited public/private repositories
- > Automatic security and version updates
- > 2,000 CI/CD minutes/month  
Free for public repositories

### Team

Advanced collaboration for individuals and organizations

\$48

\$44

per user/year for the first 12 months\*

**Continue with Team**

← Everything included in Free, plus...

- > Access to GitHub CodeSpaces

# 1. Organization 만들기

Tell us about your organization

## Set up your organization

만약, Contact email에 팀원 이메일을 못 추가  
했어도 괜찮아요!

Organization account name \*

팀 이름

The name may only contain alphanumeric characters or single hyphens, and cannot begin or end with a hyphen.

Contact email \*

This organization belongs to: \*

☐ My personal account

I.e., linda-spr (Linda)

☒ A business or institution

For example: GitHub, Inc., Example Institute, American Red Cross

Name of business or institution this organization belongs to \*


팀 이름

This business or institution — not linda-spr (your personal account) — will control this organization account.

Verify your account

My personal account 로 해도 상관없지만  
팀 프로젝트인만큼 Name of business를 팀으로  
설정해도 좋을 것 같아요 😊

# 1. Organization 만들기



SeSAC4web

Follow

Overview

Repositories


Projects

Packages

Teams

People 2

Settings



### Create your first SeSAC4web repository.

A new home for your code where you can start collaborating with your team.

Create a new repository


View as: Public

You are viewing the README and pinned repositories as a public user.

You can [create a README file](#) visible to anyone.

[Get started with tasks](#) that most successful organizations complete.


People



Invite someone

완성된 Organization 페이지

# 2. People - 추가

 SeSAC4web

Overview

Repositories

Projects

Packages

Teams

**People 2**

Settings

Organization permissions

**Members 2**

Outside collaborators

Pending collaborators

Pending invitations

Failed invitations

Find a member...

Export


**Invite member**

Members


2FA

Role


☐

 **YJ**  
hamayj


2FA × Private Member 0 teams



☐

 **Linda**  
linda-spr

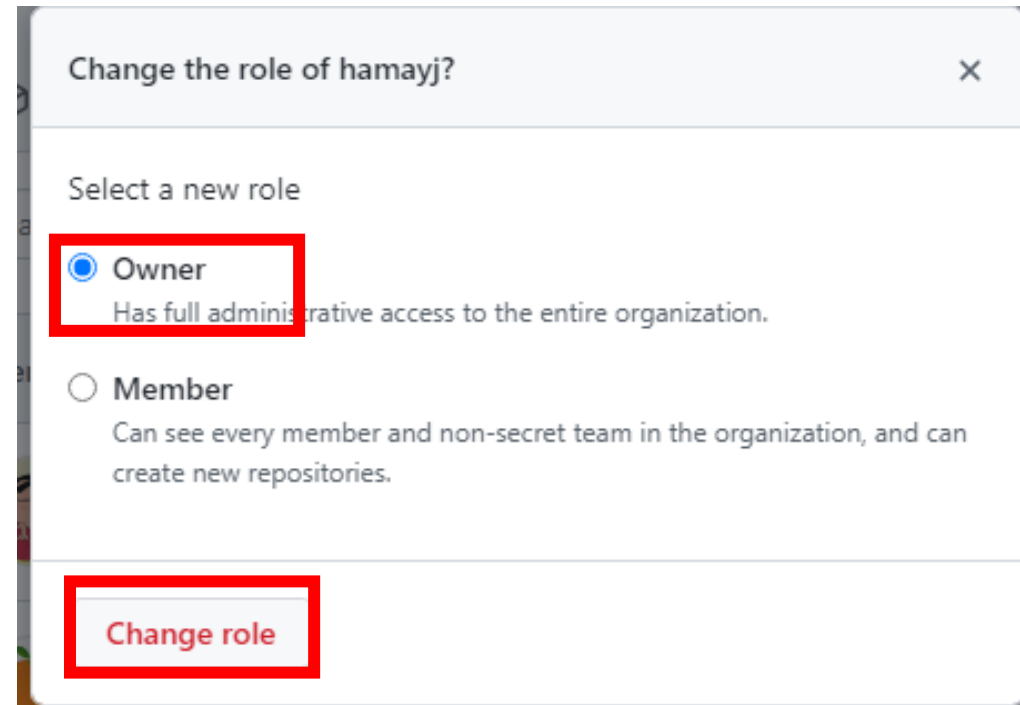
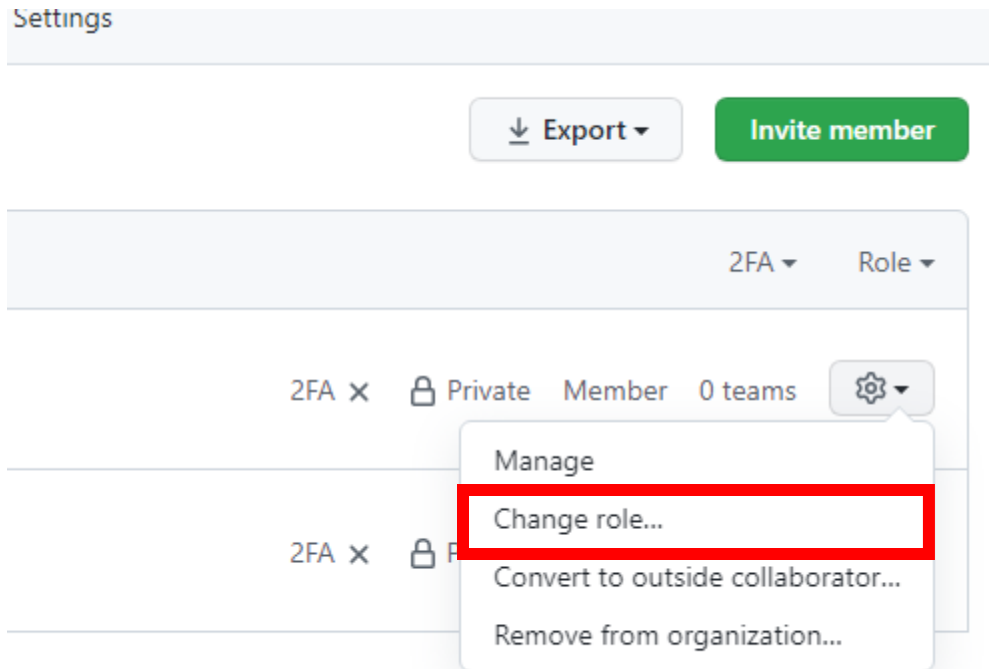
2FA × Private Owner 0 teams



2022-08-16

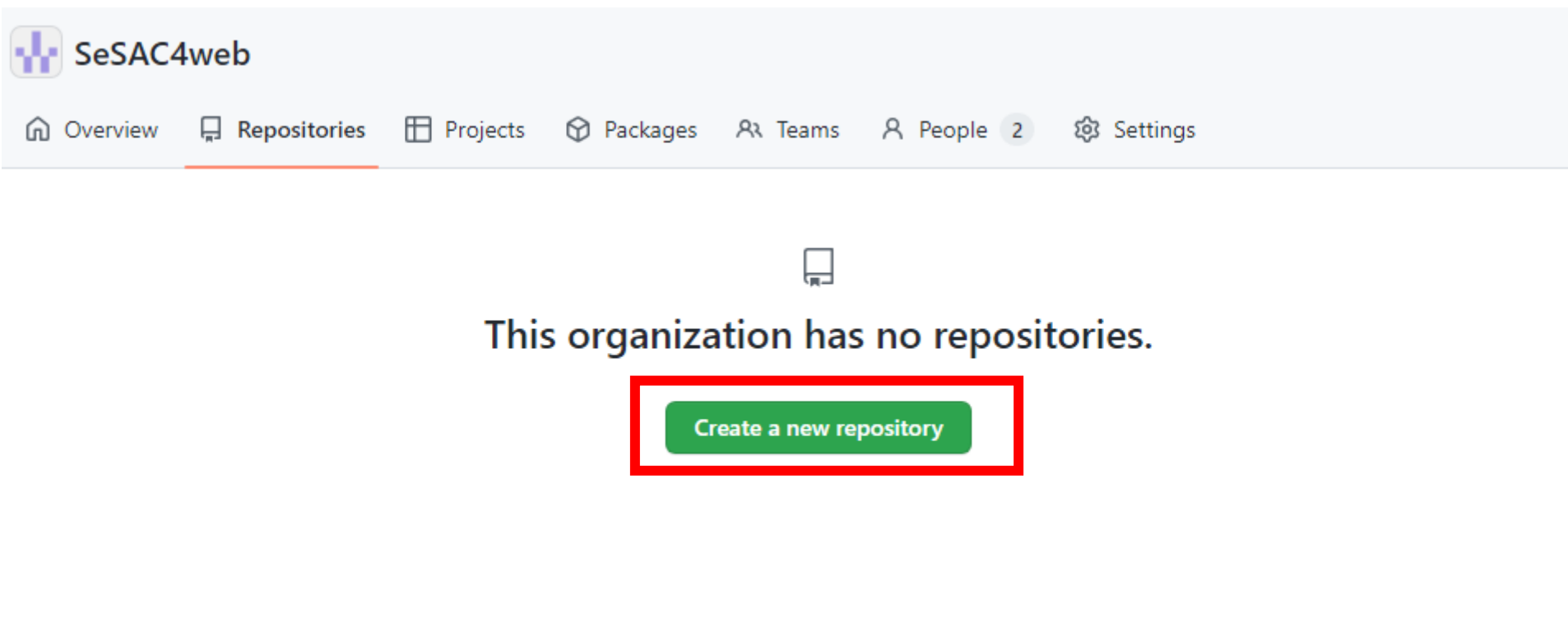
6

## 2. People – 역할 변경



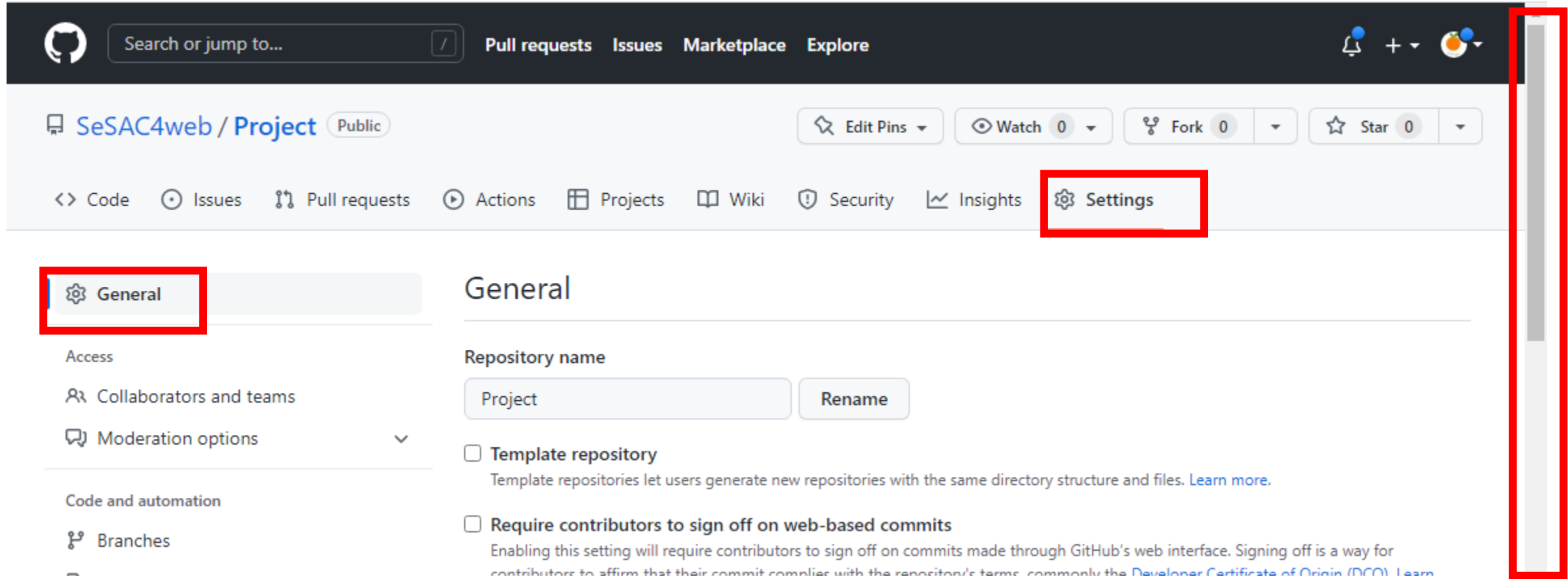
**Owner**로 역할을 설정할 시 해당 팀원도 Branch 생성, 삭제 및 Organization 관리를 할 수 있어요 😊

# 3. Repository 만들기





# 3. Repository 설정



The screenshot shows the GitHub interface for a repository named 'SeSAC4web / Project'. The 'Settings' tab is selected in the top navigation bar. On the left sidebar, the 'General' settings tab is highlighted. The main content area shows the 'General' settings, including the repository name 'Project' and options to 'Edit Pins', 'Watch', 'Fork', and 'Star'. Below these are checkboxes for 'Template repository' and 'Require contributors to sign off on web-based commits'. A red box highlights the 'Settings' tab in the top navigation bar, and another red box highlights the 'General' tab in the left sidebar. A vertical red box on the right side of the page indicates the scroll bar.

**스크롤 아래로!**

# 3. Repository 설정

You can allow setting pull requests to merge automatically once all required reviews and status checks have passed.

☐ Allow auto-merge

Waits for merge requirements to be met and then merges automatically. [Learn more](#)

After pull requests are merged, you can have head branches deleted automatically.

☒ Automatically delete head branches ✓

Deleted branches will still be able to be restored.

## Archives

When creating source code archives, you can choose to include files stored using Git LFS in the archive.

☐ Include Git LFS objects in archives

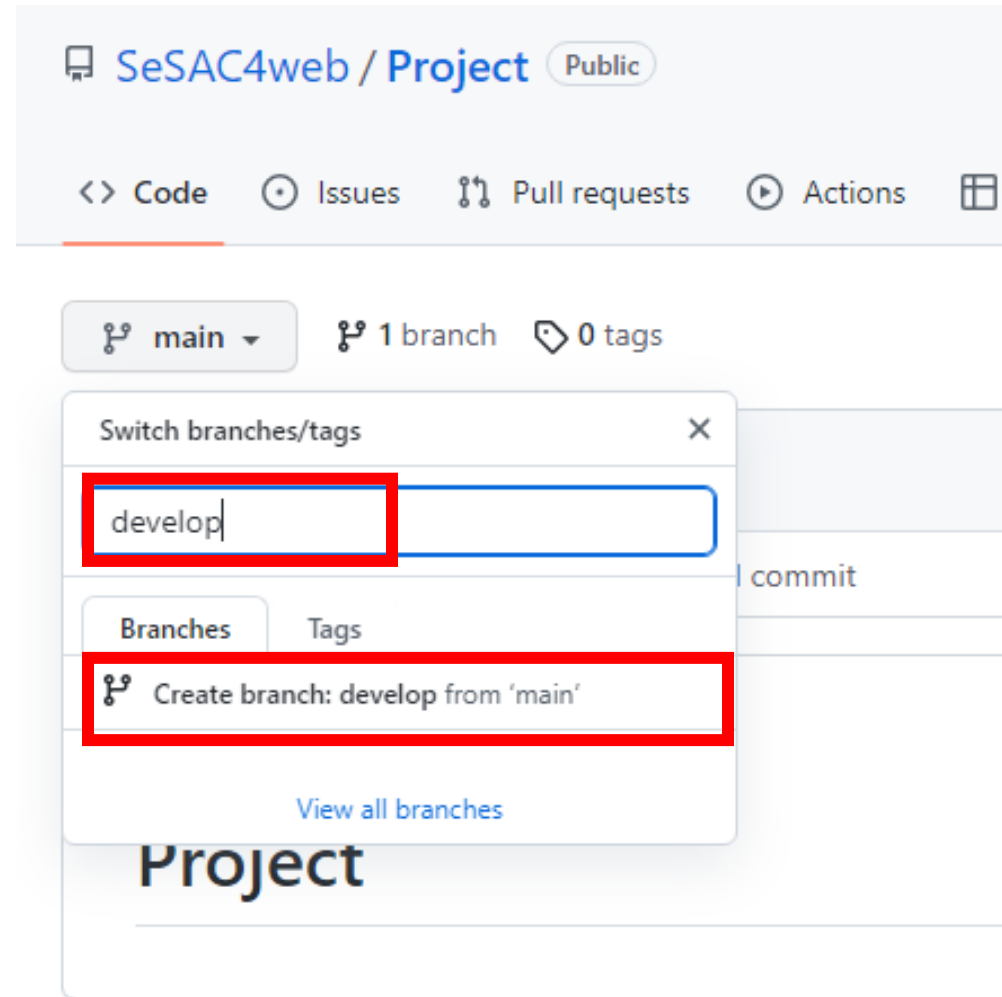
Git LFS usage in archives is billed at the same rate as usage with the client.

## Pushes

☐ Limit how many branches and tags can be updated in a single push Beta

Pushes will be rejected if they attempt to update more than this. [Learn more](#) about this setting, and send us your [feedback](#).

# 4. Branch



# 4. Branch

SeSAC4web / Project Public

Edit Pins Watch 0 Fork 0 Star 0

Code Issues Pull requests Actions Projects Wiki Security Insights **Settings**

## General

Access

Collaborators and teams

Moderation options

## Code and automation

**Branches**

Tags

Actions

Webhooks

Environments

Pages

## Security

Code security and analysis

## Default branch

The default branch is considered the "base" branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

main



## Branch protection rules

Add rule

Define branch protection rules to disable force pushing, prevent branches from being deleted, and optionally require status checks before merging. New to branch

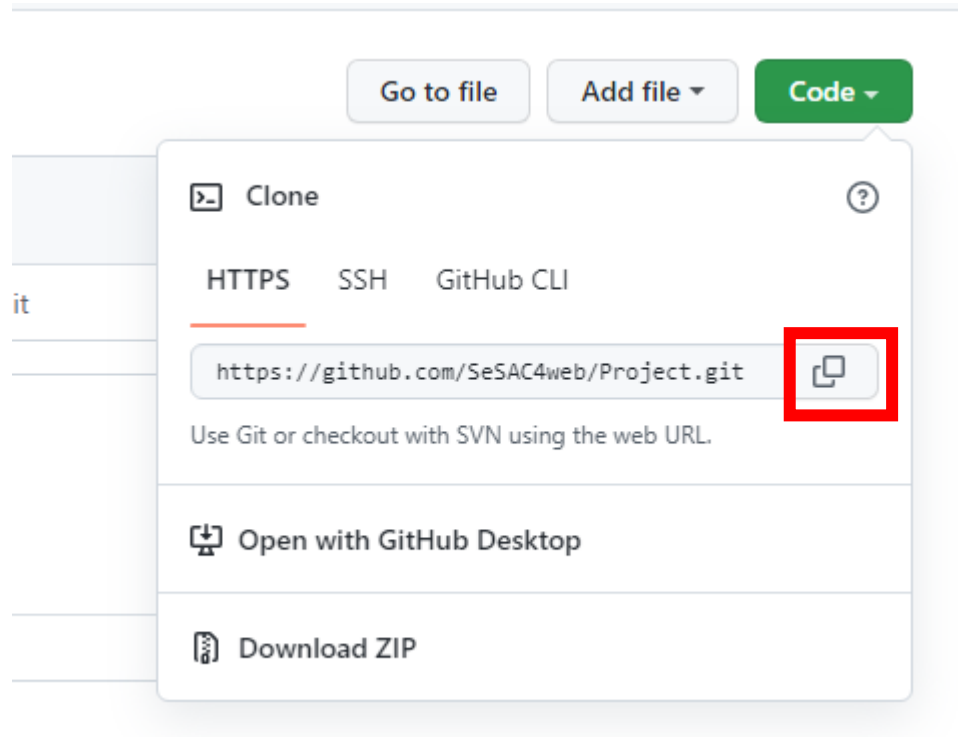
### Switch default branch to another branch

Choose another branch to use as the default branch of SeSAC4web/Project instead of `main`:

develop

Update

# 5. 작업하기 – git clone



```
Linda@Linda MINGW64 /e/Development/github/SeSAC_prj  
$ git clone https://github.com/SeSAC4web/Project.git
```

# 5. 작업하기

## 작업순서

1. develop branch 로 이동 ( git checkout develop )
2. feature 만들기 ( git checkout -b feature/기능이름 )
3. 작업 ( git add -> commit -> push feature/기능이름 )
4. Github 페이지에서 feature을 develop으로 MERGE

# 5-1. develop 브랜치

```
Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (feature/기능이름)
$ git status
On branch feature/기능이름
nothing to commit, working tree clean

Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (feature/기능이름)
$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (develop)
$ git pull origin develop
From https://github.com/SeSAC4web/Project
* branch          develop      -> FETCH_HEAD
Already up to date.
```

=> 이어서 설명

# 5-1. develop 브랜치

```
Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (feature/기능이름)
$ git status
On branch feature/기능이름
nothing to commit, working tree clean

Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (feature/기능이름)
$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (develop)
$ git pull origin develop
From https://github.com/SeSAC4web/Project
* branch      develop    -> FETCH_HEAD
Already up to date.
```

현재 내가 위치한 branch 의 상태 확인

정상 -> git status 에 아무것도 없어야 한다.

새로운 작업을 시작한다는 것은 이전 작업이 끝났다는 것이기 때문!!

정상이 아니라면 해당 feature의 작업을 마무리하든, 작업을 취소하든 해야 함.



# 5-1. develop 브랜치

```
Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (feature/기능이름)
$ git status
On branch feature/기능이름
nothing to commit, working tree clean

Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (feature/기능이름)
$ git checkout develop
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.

Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (develop)
$ git pull origin develop
From https://github.com/SeSAC4web/Project
* branch          develop    -> FETCH_HEAD
Already up to date.
```

develop 브랜치로 checkout한 후, 최신 상태를 받아야 한다.

항상!! 작업 시작 전

**git pull origin develop**

은 필수로 작업하기. Feature 브랜치를 만들기 전 최신 상태를 받지 않으면 내가 짰 코드와 다른 사람이 짰 코드가 다 날라간다!!!

## 5-2. feature 만들기

```
Linda@Linda MINGW64 /e/Development/github/SeSAC_prj/Project (develop)
$ git checkout -b feature/기능이름
Switched to a new branch 'feature/기능이름'
```

feature 이름은 “feature/기능이름” 으로 만든다.

ex) feature/login\_ui

ex) feature/validate\_member

feature은 기능 단위로 만들고, 혼자 한 feature에서 오래 작업하면 다른 사람의 코드와 충돌(Conflict) 이 날 수도 있으니 작은 단위로 만든다. )

로그인(x) 로그인화면(o) 로그인로직(o)

## 5-3. 작업

- 작업은 원래 하던 대로 코드 작성 후 add -> commit 을 진행하면 된다.
- commit은 여러 번 하는 것이 좋다. ( 작은 단위로 )
  - Ex) 로그인 화면을 만든다.

git add .

git commit -m "feat: Create input text view"

git add .

git commit -m "feat: Validate id, pw"

- Push는 오늘 작업을 다 하고 ( or 쉬는 시간을 갖기 전 ) 한 번만 해도 된다.

git push origin feature/기능이름

주의! Push 할 때 내가 지금 작업하고 있는 feature 이름으로 push하기

# 5-4. merge

SeSAC4web / Project Public

Edit Pins Watch 0

<> Code Issues Pull requests Actions Projects Wiki Security Insights Se

feature/기능이름 had recent pushes less than a minute ago

Compare & pull request

develop

3 branches

0 tags

Go to file

Add file

Code

linda-spr Initial commit

aeb5bfa 15 minutes ago 1 commit

README.md

Initial commit

15 minutes ago

README.md


# 5-4. merge

## Comparing changes

Choose two branches to see what's changed or compare a commit to a branch or to another commit.


base 는 항상 develop

compare 는 내가 작업한 feature

 base: develop

←

compare: feature/기능이름

 **Able to merge.** These branches can be automatically merged.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)

Create pull request



1 commit

1 file changed

1 contributor

Commits on Aug 16, 2022

docs: Change README.md file


 750dba0 




Showing 1 changed file with 1 addition and 1 deletion.

Split

Unified

2 README.md



...	...	@@ -1 +1 @@
1	-	# Project
1	+	## Project

2022-08-16

21

# 5-4. merge

## Open a pull request


Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: develop

←

compare: feature/기능이름

✓ Able to merge. These branches can be automatically merged.



docs: Change README.md file

Write

Preview

H B I ≡ <> 🔗 ≡ ≡ ≡ @ ↗ ↶

Leave a comment

제목이나 내용은 팀에서 정한 규칙대로 진행

Attach files by dragging & dropping, selecting or pasting them.

Create pull request

▼

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

# 5-4. merge

SeSAC4web / Project Public

Edit Pins Watch 0 Fork 0 Star 0


Code Issues **Pull requests 1** Actions Projects Wiki Security Insights Settings

Label issues and pull requests for new contributors [Dismiss](#)

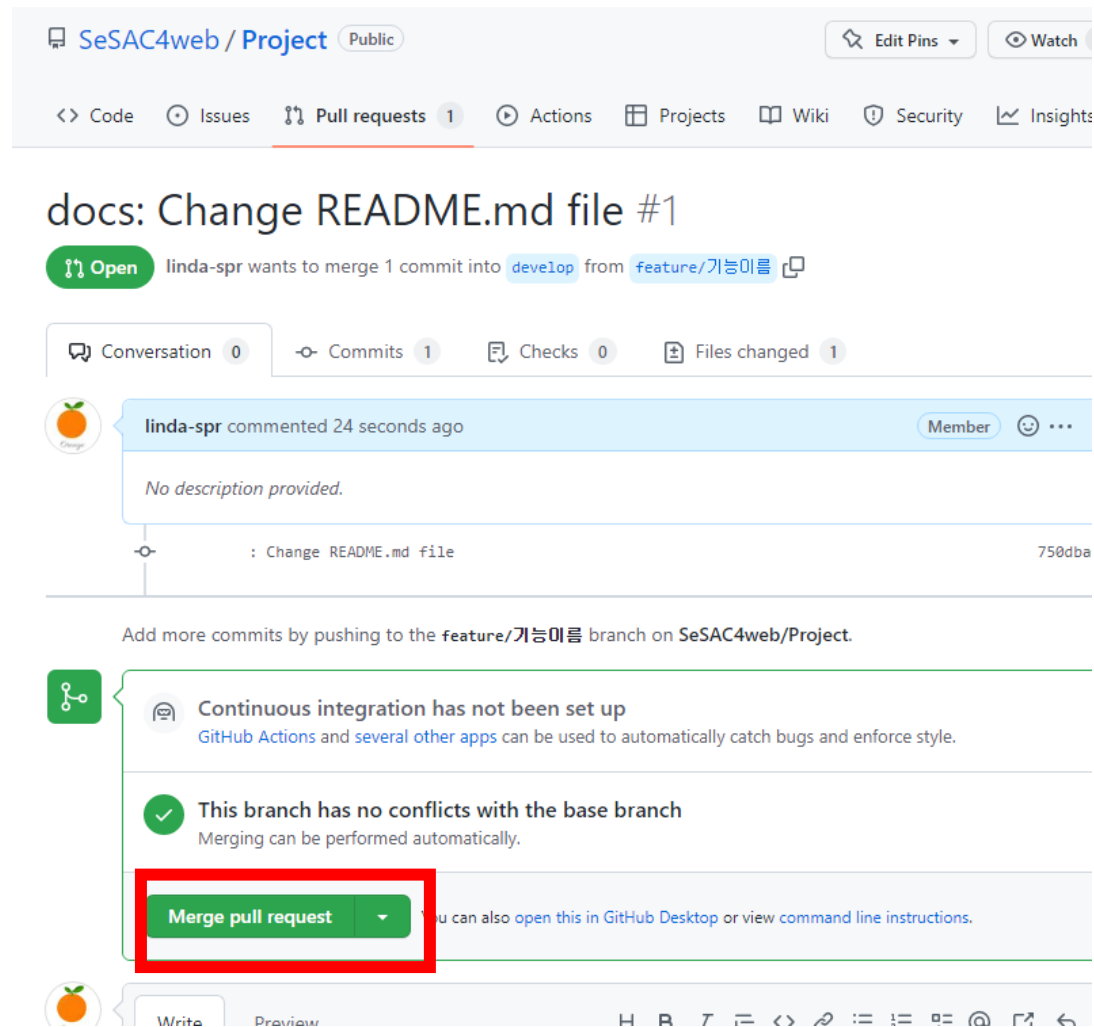
Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)

Filters  Labels 9 Milestones 0 [New pull request](#)

☐ 1 Open ✓ 0 Closed Author Label Projects Milestones Reviews Assignee Sort

☐  docs: Change README.md file  
#1 opened now by linda-spr

# 5-4. merge



The screenshot shows a GitHub pull request page for the repository 'SeSAC4web / Project'. The pull request title is 'docs: Change README.md file #1'. It shows that 'linda-spr' wants to merge 1 commit into the 'develop' branch from the 'feature/기능미름' branch. The interface includes tabs for 'Code', 'Issues', 'Pull requests' (which is active), 'Actions', 'Projects', 'Wiki', 'Security', and 'Insights'. Below the title, there are statistics: 'Conversation 0', 'Commits 1', 'Checks 0', and 'Files changed 1'. A comment from 'linda-spr' is visible, stating 'No description provided.' and showing a commit history for 'Change README.md file'. Below the comment, a message states: 'Add more commits by pushing to the feature/기능미름 branch on SeSAC4web/Project.' A green box highlights the status section, which includes a warning 'Continuous integration has not been set up' and a success message 'This branch has no conflicts with the base branch'. At the bottom of this section, a green button labeled 'Merge pull request' is highlighted with a red rectangle. The bottom of the page shows a 'Write' and 'Preview' section with a rich text editor toolbar.



# 5-4. merge


SeSAC4web / Project Public Edit Pins Watch

Code Issues Pull requests 1 Actions Projects Wiki Security Insights

## docs: Change README.md file #1

**Open** linda-spr wants to merge 1 commit into develop from feature/기능이름


Conversation 0 Commits 1 Checks 0 Files changed 1


 linda-spr commented 24 seconds ago Member

No description provided.


Change README.md file 750dba

Add more commits by pushing to the feature/기능이름 branch on SeSAC4web/Project.

 Continuous integration has not been set up  
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

 This branch has no conflicts with the base branch  
Merging can be performed automatically.


**Merge pull request** You can also open this in GitHub Desktop or view command line instructions.

 Write Preview

## docs: Change README.md file #1



**Merged** linda-spr merged 1 commit into develop from feature/기능이름 now



Conversation 0 Commits 1 Checks 0 Files changed 1

 linda-spr commented 1 minute ago Member

No description provided.

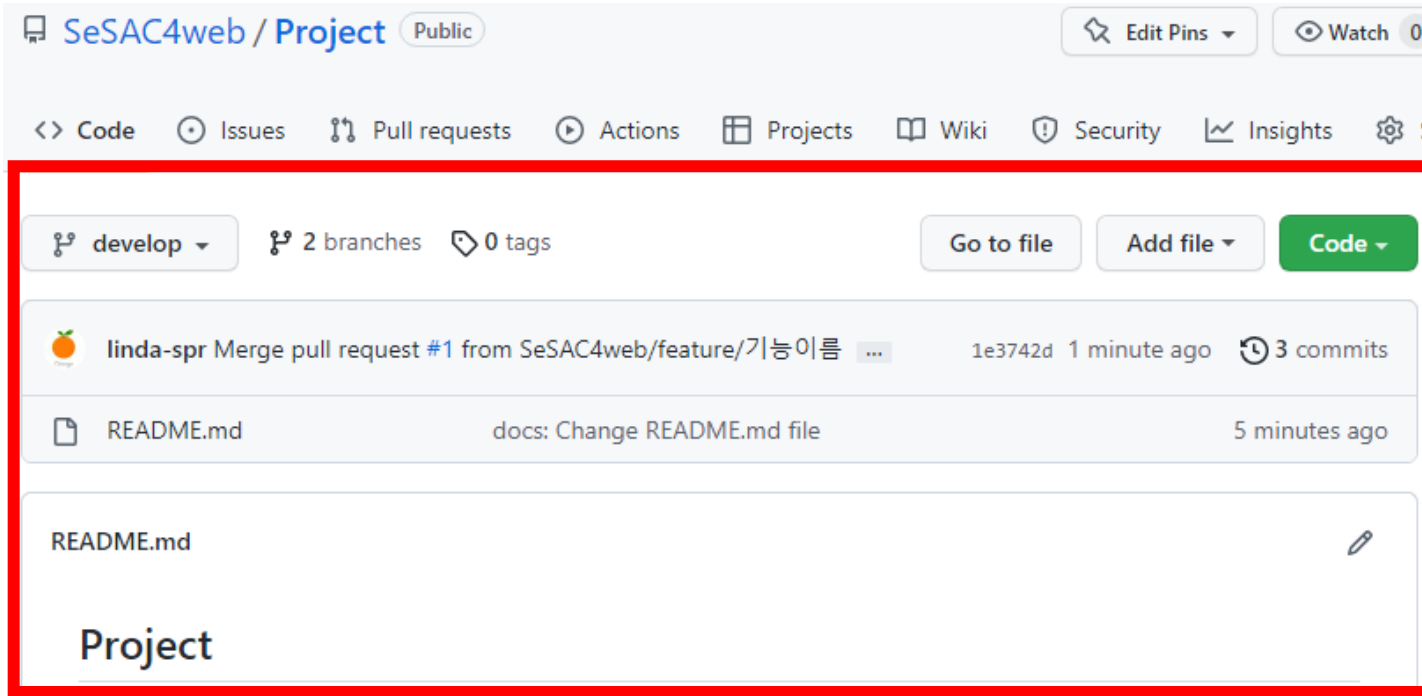
Change README.md file 750dba

  linda-spr merged commit 1e3742d into develop now **Revert**

  linda-spr deleted the feature/기능이름 branch now **Restore branch**

Open이 Merged 로 변경되면 성공!

# 5-4. merge




작업이 완료되면 develop에 반영이 완료된다.

항상 작업이 끝난 후, merge 까지 해줘야 다른 사람이 develop을 받아 작업할 때 내가 수정한 것까지 받아서 작업 가능




# 5-5. merge 시 conflict 발생


Comparing changes    **다른 사람이 작업한 부분과 충돌이 일어날 시 아래와 같이 나온다.**


Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

 base: develop ▾   ←   compare: feature/기능이름 ▾   **✖ Can't automatically merge.** Don't worry, you can still create the pull request.

Discuss and review the changes in this comparison with others. [Learn about pull requests](#)    **Create pull request**

 1 commit       1 file changed       1 contributor

 Commits on Aug 16, 2022

docs: Change README.md file       23c3d7c    <>


# 5-5. merge 시 conflict 발생

Conversation 0

Commits 1

Checks 0

Files changed 1



linda-spr commented now

Member

...


No description provided.


🔗

: Change README.md file

23c3d7c

Add more commits by pushing to the `feature/기능이름` branch on `SeSAC4web/Project`.





**This branch has conflicts that must be resolved**  
Use the [web editor](#) or the [command line](#) to resolve conflicts.  
**Conflicting files**  
README.md

Resolve conflicts

Merge pull request

▼

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).



# 5-5. merge 시 conflict 발생

## docs: Change README.md file #2

Resolving conflicts between `feature/기능이름` and `develop` and committing changes → `feature/기능이름`

1 conflicting file

README.md

1 conflict Prev ^ Next v ⚙ Mark as resolved

README.md  
README.md

1 <<<<<< feature/기능이름  
2 # Project  
3 |=====  
4 ## Project2  
5 >>>>>> develop  
6

2022-08-16

29

# 5-5. merge 시 conflict 발생

## docs: Change README.md file #2

Resolving conflicts between feature/기능이름 and develop and committing changes → feature/기능이름

1 conflicting file

README.md  
README.md

1 conflict

Prev ^

Next v

⚙

Mark as resolved

1    ## Project2

2

## docs: Change README.md file #2

Resolving conflicts between feature/기능이름 and develop and committing changes → feature/기능이름

1 conflicting file

README.md  
README.md


✓ Resolved

Commit merge

1    ## Project2


2



# 5-5. merge 시 conflict 발생

 Merge branch 'develop' into feature/기능이름 Verified e2e223c

---

Add more commits by pushing to the **feature/기능이름** branch on **SeSAC4web/Project**.



-  **Continuous integration has not been set up**  
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.
-  **This branch has no conflicts with the base branch**  
Merging can be performed automatically.
- Merge pull request** ▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

**Labels**  
None yet

**Projects**  
None yet

**Milestone**  
No milestone

**Development**  
Successful issues.


# 5-5. merge 시 너무 많은 Conflict

Conversation 0

Commits 1

Checks 0

Files changed 1



linda-spr commented now

Member


...


No description provided.

Change README.md file

23c3d7c

Add more commits by pushing to the `feature/기능이름` branch on `SeSAC4web/Project`.



 This branch has conflicts that must be resolved

Use the [web editor](#) or the [command line](#) to resolve conflicts.

Resolve conflicts

Conflicting files

README.md

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions.](#)





This branch has conflicts that must be resolved

Use the [web editor](#) or the [command line](#) to resolve conflicts.

### Conflicting files

README.md

Resolve conflicts

Merge pull request

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

### Checkout via command line

If the conflicts on this branch are too complex to resolve in the web editor, you can check it out via command line to resolve the conflicts.

HTTPS

SSH

Patch

<https://github.com/SeSAC4web/Project.git>



Step 1: Clone the repository or update your local repository with the latest changes.

```
git pull origin develop
```



Step 2: Switch to the head branch of the pull request.

```
git checkout 'feature/기능이름'
```



Step 3: Merge the base branch into the head branch.

```
git merge develop
```



Step 4: Fix the conflicts and commit the result.

See [Resolving a merge conflict using the command line](#) for step-by-step instructions on resolving merge conflicts.

Step 5: Push the changes.

```
git push -u origin 'feature/기능이름'
```



Command line 을 이용해  
로컬 컴퓨터의 visual  
studio 에서 Conflict 를  
해결한다.

Step4 가 우리가 배운  
merge를 해결하는 단계

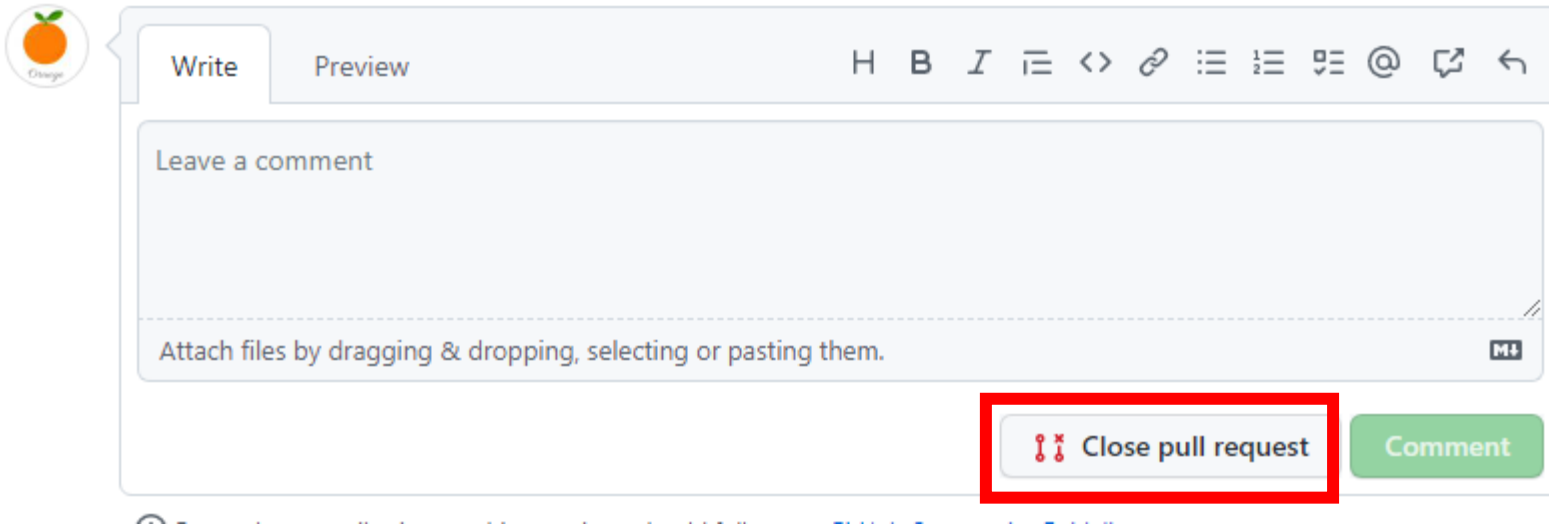


Write

Preview

H B I @

## 6. 내가 만든 pr 지우기



올려놓은 pr 을 merge 하지 않고 무시하고 싶은 경우,  
Close pull request를 입력한다.