



Muhammad Ramadiansyah

Finaccel Machine Learning Engineer

Experiences in **Machine Learning Engineer**,
Data Scientist, **Full Stack Web Developer** and
Product Manager.

Working Experiences



Education Background



2013-2017
Bachelor Degree
Electrical
Engineering



2019-2021
Master Degree
Computer Science

Collaborative Working using Git



Topik Collaborative Working using Git

Topik 1 :

Introduction to Git and Command Line Interface



1. Introduction to Command Line Interface
2. Understanding git environment
3. Commit your first file
4. Introduction to Github
5. Create your own README

Topik 2 :


Github for Workflow Management

1. Clone and pull Repository
2. Branch management
3. Manage code conflicts
4. Create and review pull request




Prerequisites:


1. Create your [Github Account](#)
2. Install git command line interface
3. Instalasi text editor e.g [vscode](#)
4. Video akan menggunakan **Windows**

Login Github Account














[Pull requests](#)
[Issues](#)
[Marketplace](#)
[Explore](#)


ramadnsyh ▾


[Recent Repositories](#)

 New

-  ramadnsyh/react-challenge
-  ramadnsyh/react-password-manager
-  ramadnsyh/react-native-twyttter
-  ramadnsyh/react-todo-server
-  ramadnsyh/ecommerce-react
-  ramadnsyh/ecommerce-server-react
-  ramadnsyh/react-from-scratch
-  ramadnsyh/react-kanban
-  ramadnsyh/react-kanban-firebase
-  ramadnsyh/react

[Recent activity](#)

[Following](#)
[For you](#)
Beta


 iswanulumam starred lydiahallie/javascript-questions 8 days ago

lydiahallie/javascript-questions

A long list of (advanced) JavaScript questions, and their explanations ✨

☆ 47.6k
1 issue needs help
Updated Sep 7

☆ Star


 iswanulumam starred sudheerj/reactjs-interview-questions 9 days ago

sudheerj/reactjs-interview-questions

List of top 500 ReactJS Interview Questions & Answers....Coding exercise questions are coming soon!!


JavaScript
☆ 23.7k
Updated Aug 24

☆ Star

 julianjca starred abigqer87/snowglobe 9 days ago

abigqer87/snowglobe

☆ Star



Universe 2022
✕

Let's build from here

Join the global developer event for cloud, security, community, and AI.

Register today and get a 20% off early bird discount.

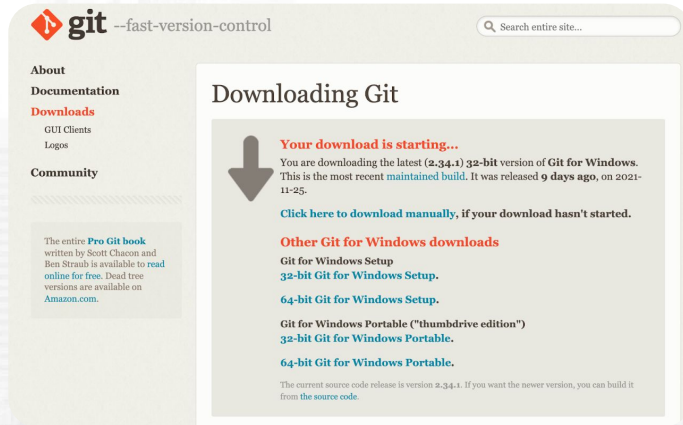
Register now


GitHub Copilot
✕

Get suggestions for lines of code and entire functions in real-time

Learn more about Copilot

Instalasi Git



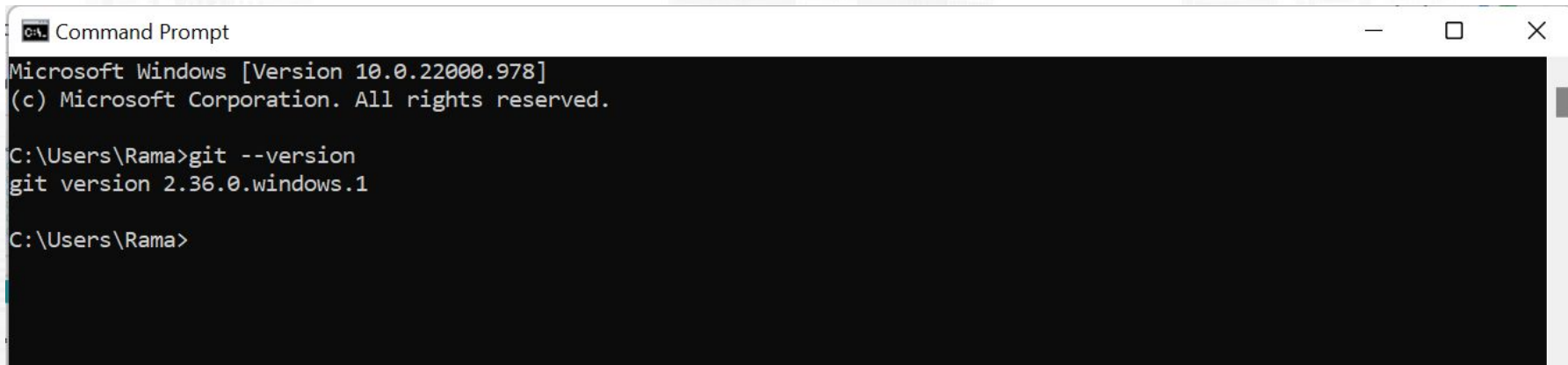
Untuk Windows, bisa mengunduh melalui [git-scm](https://git-scm.com).

```
ramadnsyh@Ramadiansyah-PC: /mnt/c/Users/Rama$ sudo apt-get install git
```

Untuk sistem berbasis Debian (Ubuntu, Debian, dll), dapat menjalankan perintah: **sudo apt-get install git**

Untuk sistem berbasis MacOS, dapat menjalankan perintah: **brew install git**

Instalasi Git

A screenshot of a Windows Command Prompt window. The title bar reads "C:\> Command Prompt". The window content shows the following text: "Microsoft Windows [Version 10.0.22000.978]" followed by "(c) Microsoft Corporation. All rights reserved." on the next line. Then, the command "C:\Users\Rama>git --version" is entered, and the output "git version 2.36.0.windows.1" is displayed. The prompt "C:\Users\Rama>" is shown again on the next line, indicating the command has finished execution.

```
C:\> Command Prompt
Microsoft Windows [Version 10.0.22000.978]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Rama>git --version
git version 2.36.0.windows.1

C:\Users\Rama>
```

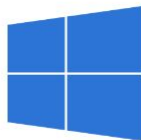
Pastikan bahwa Git sudah terpasang dengan benar, dengan menjalankan perintah

git --version

Instalasi vscode

Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



↓ Windows

Windows 8, 10, 11

| | | | |
|------------------|--------|--------|-----|
| User Installer | 64 bit | 32 bit | ARM |
| System Installer | 64 bit | 32 bit | ARM |
| .zip | 64 bit | 32 bit | ARM |



↓ .deb

Debian, Ubuntu

↓ .rpm

Red Hat, Fedora, SUSE

| | | | |
|---------|--------|-----|--------|
| .deb | 64 bit | ARM | ARM 64 |
| .rpm | 64 bit | ARM | ARM 64 |
| .tar.gz | 64 bit | ARM | ARM 64 |

Snap Store

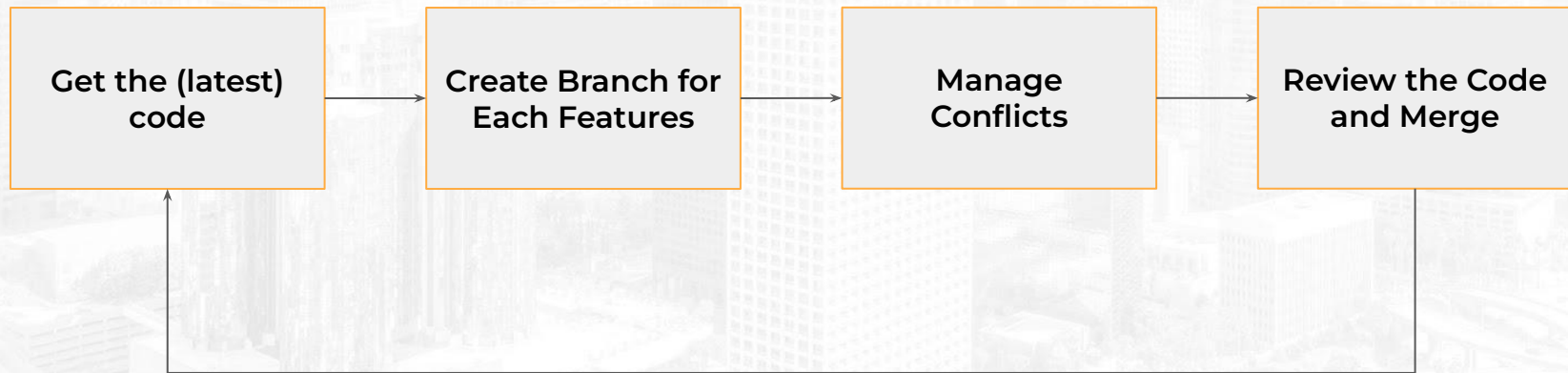


↓ Mac

macOS 10.11+

.zip Universal Intel Chip Apple Silicon

Github Workflow



Collaborative Working using Git

Github for
Workflow Management



Github for Workflow Management



Clone and pull Repository



Branch Management

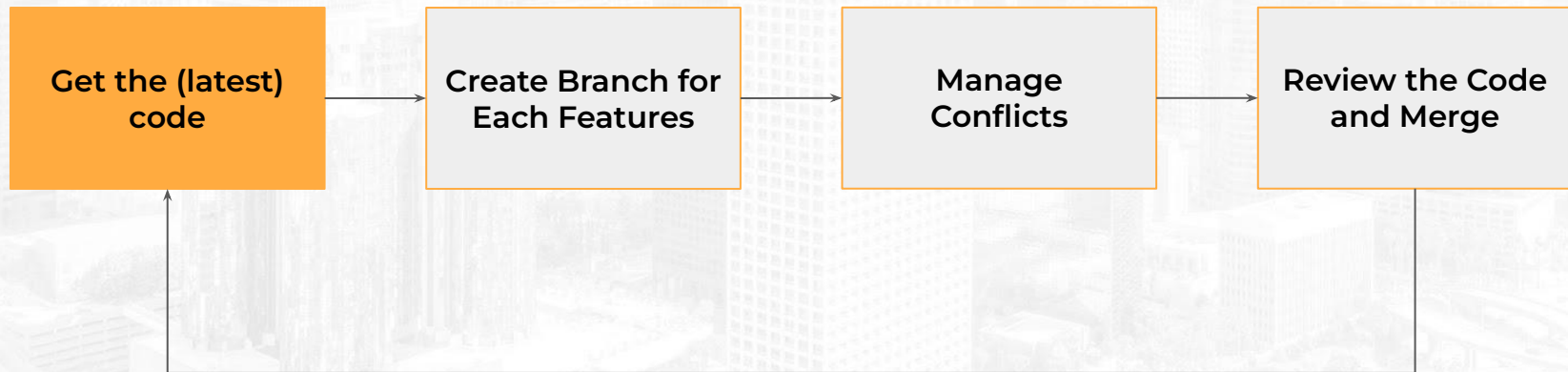


Manage code conflicts



Create and review Pull Request

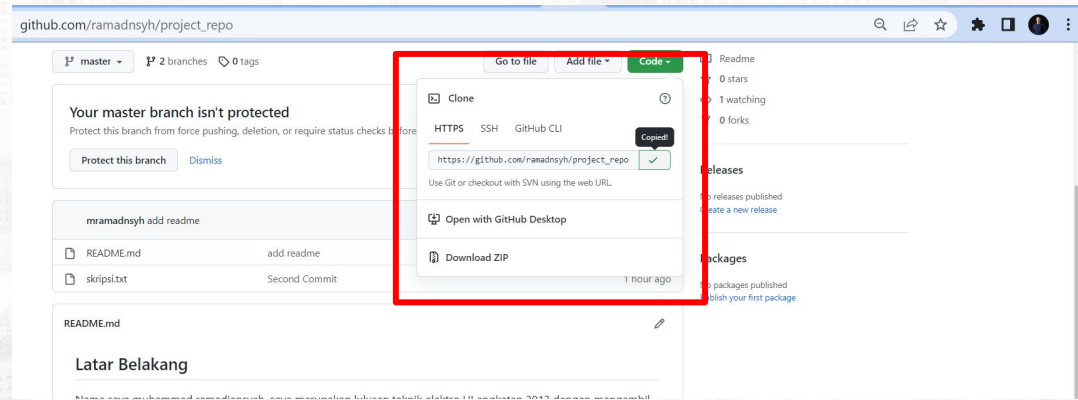
Github Workflow



Git Clone [\(Dokumentasi\)](#)

Sebagai bagian dari organisasi, kita dituntut untuk bisa **berkolaborasi**. Baik dengan kolega satu tim atau dengan tim-tim yang lain dalam sebuah organisasi.

```
git clone {REPOSITORY_URL}
```



```
C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git>git clone https://github.com/ramadnsyh/project_repo.git
Cloning into 'project_repo'...
remote: Enumerating objects: 12, done.
remote: Counting objects: 100% (12/12), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 12 (delta 1), reused 11 (delta 0), pack-reused 0
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (1/1), done.

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git>
```


Git Pull (Dokumentasi)

Jika terdapat perubahan baru pada remote repo, namun belum ter-update pada local repo di komputer kita, update repository dengan yang paling baru dengan menggunakan:

`git pull`

```
C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git status
On branch master
Your branch is up to date with 'origin/master'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   skripsi.txt

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

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git add .

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git commit -m "third commit for conflict"
[master 236bf19] third commit for conflict
1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/ramadnsyh/project_repo.git
   baeba54..236bf19  master -> master

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>
```

Ketika rekan kerja kita melakukan commit ketiga ke git

```
C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\project_repo>git pull origin master
remote: Enumerating objects: 5, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), 300 bytes | 42.00 KiB/s, done.
From https://github.com/ramadnsyh/project_repo
 * branch          master      -> FETCH_HEAD
    baeba54..236bf19  master      -> origin/master
Updating baeba54..236bf19
Fast-forward
 skripsi.txt | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\project_repo>
```

Update local repository kita dengan git pull untuk mendapatkan file nya

YUK LATIHAN !!!

Github for Workflow Management



Clone and pull Repository



Branch Management

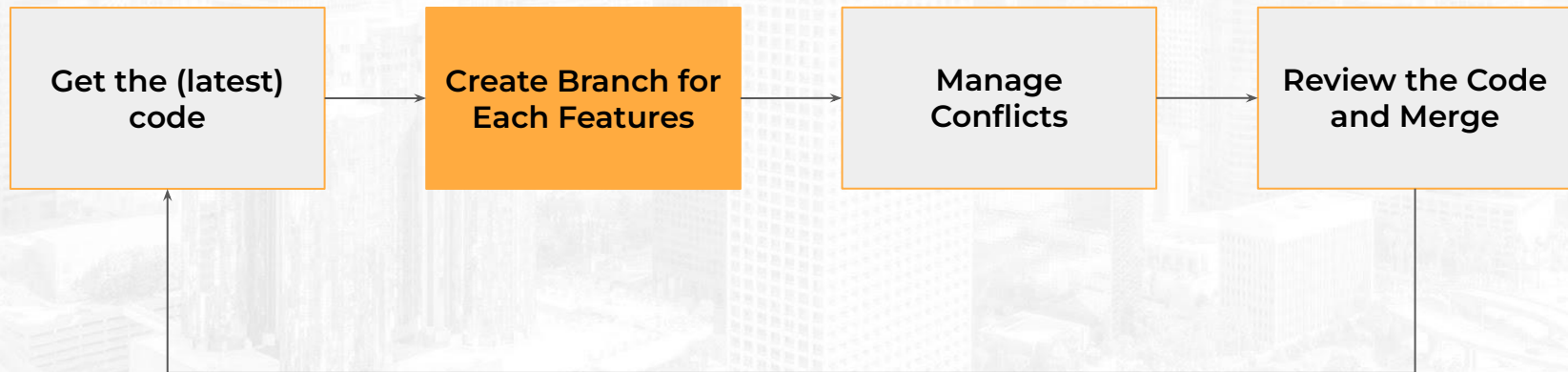


Manage code conflicts



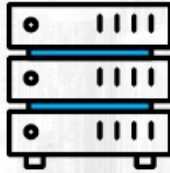
Create and review Pull Request

Github Workflow



Software Environment

Development



Staging



User Acceptance
Testing (UAT)

Production



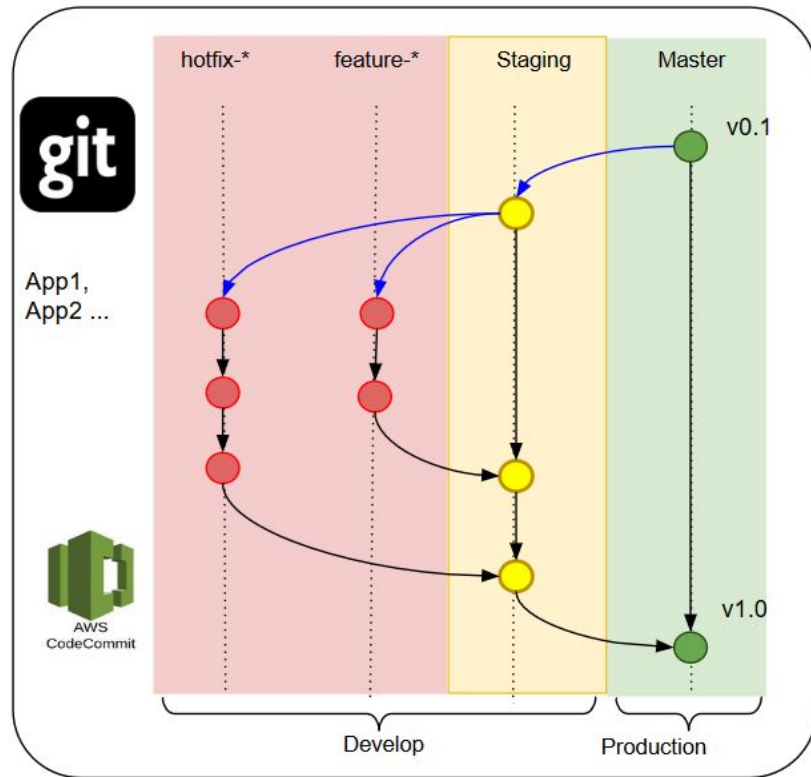
A/B testing



Final User



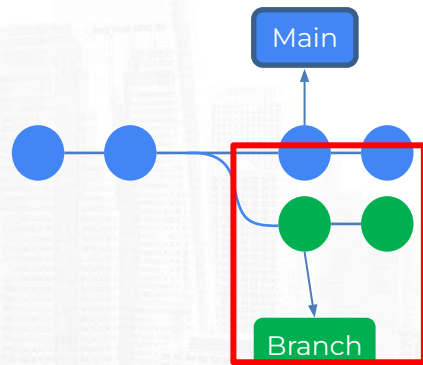
Software Environment



- 1 Local
- 2 Staging
- 3 Production

Git Branch [\(Dokumentasi\)](#)

Dalam pengembangan suatu proyek, akan banyak sekali fitur-fitur yang akan diimplementasikan. Dan fitur-fitur tersebut mungkin bisa dikerjakan secara bersamaan (parallel). Dan disitulah percabangan bisa terjadi. Agar lebih fokus pengerjaannya dan tidak mengganggu pekerjaan utama, perlu dibuat sebuah branch.



Syntax:

```
git branch # cek daftar brach yang ada
git branch {YOUR_NEW_BRANCH} # membuat branch baru
git checkout {YOUR_NEW_BRANCH} # pindah ke branch baru
git checkout -b {YOUR_NEW_BRANCH} # pindah dan membuat branch baru
```

```
C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git branch
* master

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git branch example-branch

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git branch
example-branch
* master

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git checkout example-branch
Switched to branch 'example-branch'

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>git branch
* example-branch
  master

C:\Users\Rama\Documents\sandbox\python-courses\Collaborative Working using Git\intro_to_git\rakamin_project>_
```

YUK LATIHAN !!!

Github for Workflow Management



Clone and pull Repository



Branch Management

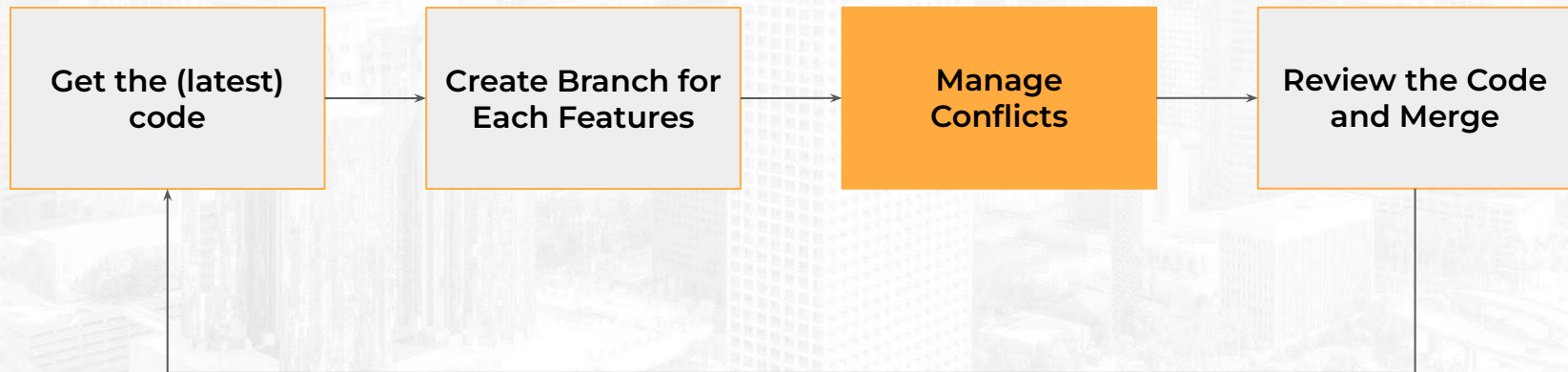


Manage code conflicts

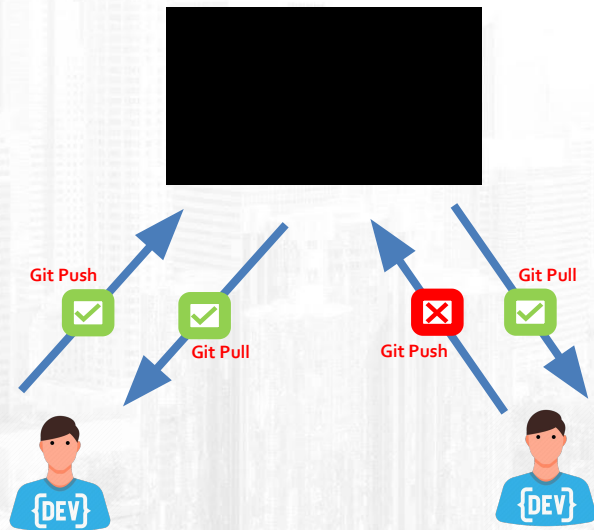


Create and review Pull Request

Github Workflow



Merge Conflict



Konflik secara umum terjadi Ketika dua orang mengubah baris yang sama dalam sebuah berkas, atau jika salah satu menghapus sebuah berkas sementara yang lainnya melakukan modifikasi.

Merge Conflict Scenario

```
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % echo "totally different content to merge later" > merge.txt
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git add merge.txt
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git commit -am"edited the content of merge.txt to cause a conflict"
[new_branch 2131a10] edited the content of merge.txt to cause a conflict
1 file changed, 1 insertion(+)
create mode 100644 merge.txt
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git checkout master
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % echo "content to append" >> merge.txt
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git add merge.txt
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git commit -am"appended content to merge.txt"
[master a5fc491] appended content to merge.txt
1 file changed, 1 insertion(+)
create mode 100644 merge.txt
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git merge new_branch
CONFLICT (add/add): Merge conflict in merge.txt
Auto-merging merge.txt
Automatic merge failed; fix conflicts and then commit the result.
```



```
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git add .
(base) mmirzafahmi@Mirza-Fahmi project_rakamin % git commit -m "merged and resolved the conflict in merge.txt"
[master 8341627] merged and resolved the conflict in merge.txt
```

```
skripsi.txt M  merge.txt X
merge.txt
Accept Current Change | Accept Incoming Change | Accept Both Changes | Compare Changes
1 <<<<<< HEAD (Current Change)
2 content to append
3 =====
4 totally different content to merge later
5 >>>>>> new_branch (Incoming Change)
6
```

```
skripsi.txt  merge.txt X
merge.txt
1 content to append
2 totally different content to merge later
```

YUK LATIHAN !!!

Github for Workflow Management



Clone and pull Repository



Branch Management

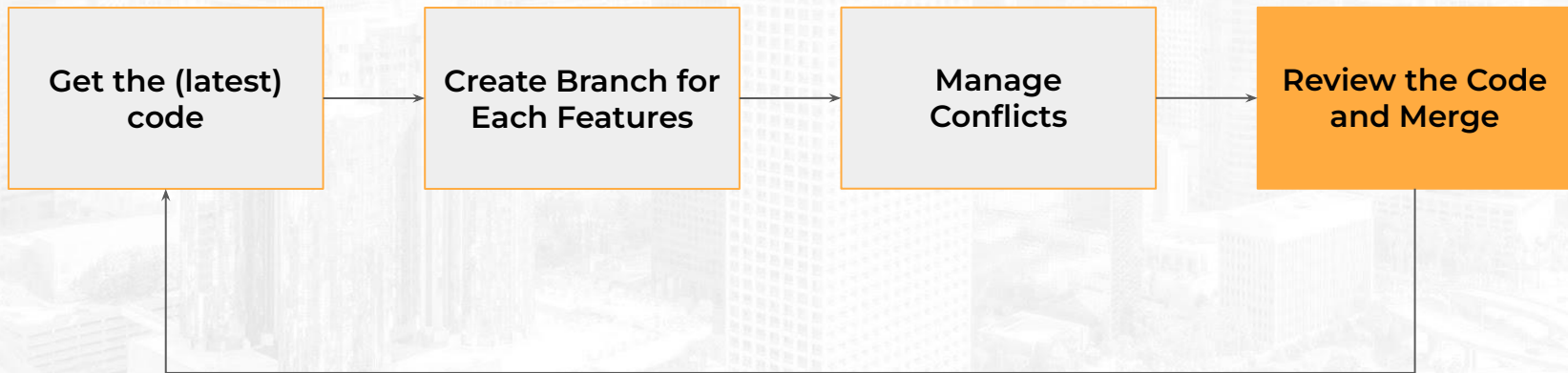


Manage code conflicts

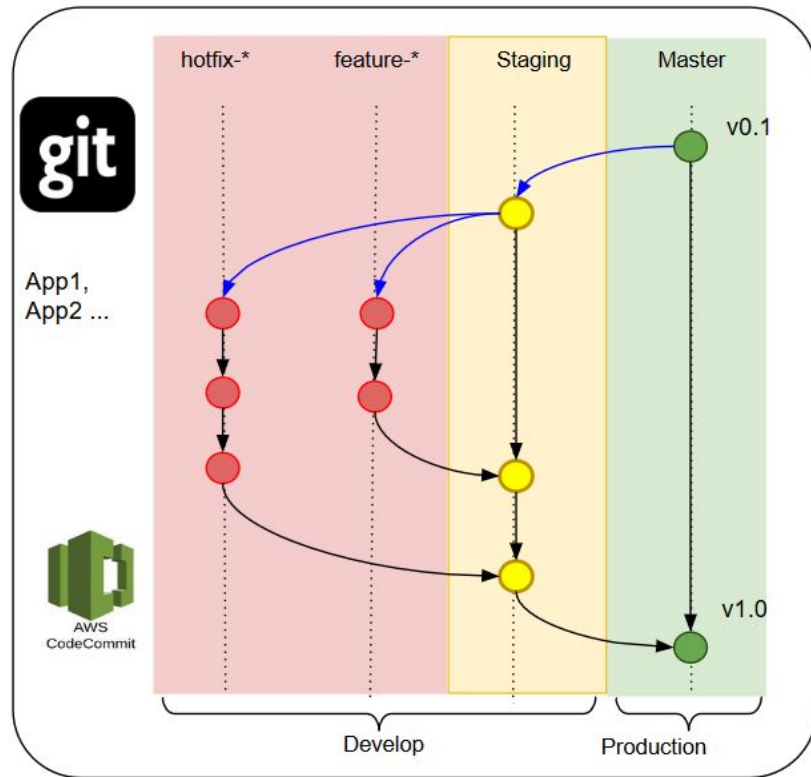


Review and create Pull Request

Github Workflow

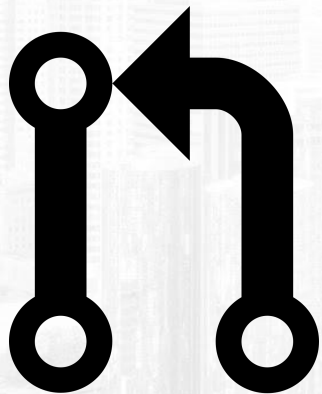


Software Environment



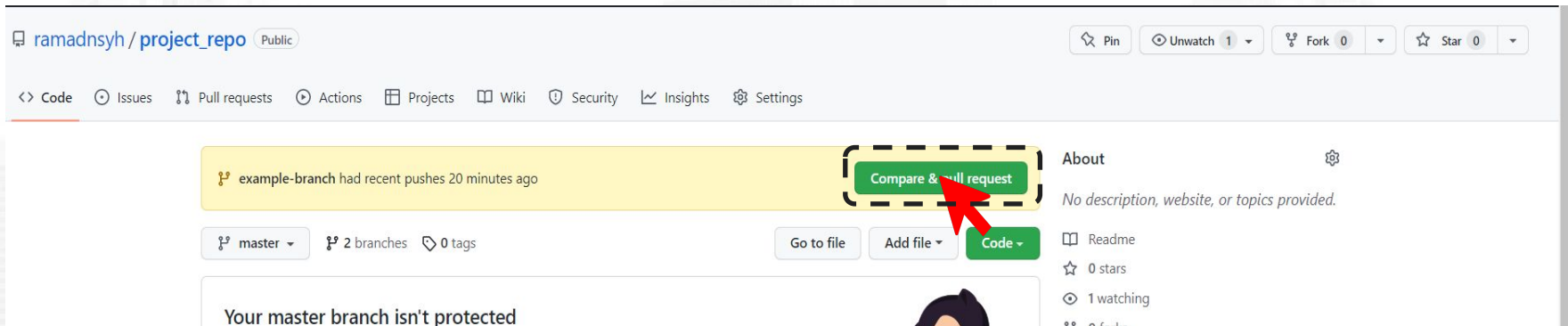
- 1 Local
- 2 Staging
- 3 Production

Pull Request



Pull request adalah alur kerja ketika pengembang meminta perubahan yang telah di commit di repositori eksternal untuk di pertimbangan menjadi bagian dari repositori utama.

Pull Request



The screenshot shows a GitHub repository interface. At the top, the repository name 'ramadnsyh / project_repo' is displayed with a 'Public' badge. To the right are buttons for 'Pin', 'Unwatch' (set to 1), 'Fork' (set to 0), and 'Star' (set to 0). Below this is a navigation bar with links for 'Code', 'Issues', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The 'Pull requests' link is highlighted.

A yellow notification bar states: 'example-branch had recent pushes 20 minutes ago'. To the right of this bar is a green button labeled 'Compare & pull request', which is highlighted with a dashed black border and a red arrow pointing to it.

Below the notification bar, there are buttons for 'Go to file', 'Add file', and 'Code'. To the left of these buttons, it says 'master' with a dropdown arrow, '2 branches', and '0 tags'.

Below the buttons, a message states: 'Your master branch isn't protected'.

On the right side of the repository page, there is an 'About' section with a gear icon, stating 'No description, website, or topics provided.' Below this are statistics: 'Readme', '0 stars', '1 watching', and '0 forks'.

Pull Request


Open a pull request

Create a new pull request by comparing changes from a branch in your repository.

Pilih cabang yang akan digabungkan.

If you need to, you can also [compare across forks](#).

base: master
←
compare: example-branch
✓ Able to merge. These branches can be auto-merged.



Review Data Visualization

Write

Preview

H

B

I

≡

<>

🔗

≡

≡

≡

@

🔗

↩

- add pie chart for age distribution
- add line chart for stock prediction

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

📎

Create pull request

▼

Penjelasan terkait Pull Request yang diajukan

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

Pull Request

Bagian pengaturan untuk menambah reviewer, penugasan dan sebagainya.

Informasi terkait *commit* dan perubahan yang telah dibuat.

Reviewers

No reviews

Assignees

No one—assign yourself

Labels

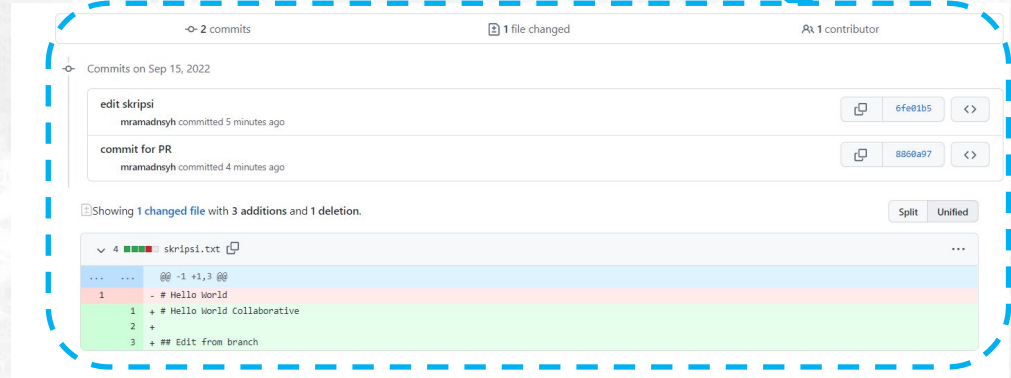
None yet

Projects

None yet

Milestone

No milestone



The screenshot displays a GitHub Pull Request interface. At the top, it shows '2 commits' and '1 file changed' by '1 contributor'. Below this, a list of commits is shown, including 'edit skripsi' and 'commit for PR', both committed by 'mramadnyh'. The interface also shows a diff for the file 'skripsi1.txt', indicating 3 additions and 1 deletion. The diff shows changes to a file named 'skripsi1.txt', with a new line added: '# Hello World Collaborative'.

Pull Request Review

Review Data Visualization #1

[Open](#) ramadnsyh wants to merge 2 commits into `master` from `example-branch`

Conversation 0 Commits 2 Checks 0 Files changed 1 +3 -1

ramadnsyh commented now

- add pie chart for age distribution
- add line chart for stock prediction

mramadnsyh added 2 commits 8 minutes ago

edit skripsi1

commit for PR

Add more commits by pushing to the `example-branch` branch on `ramadnsyh/project_repo`.

Require approval from specific reviewers before merging

Ensure specific people or teams approve pull requests before they're merged into your master branch.

[Add rule](#) [Dismiss](#)

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

H B I

Leave a comment

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

[Close pull request](#) [Comment](#)

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

Reviewers

No reviews

Still in progress? Convert to draft

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

[Unsubscribe](#) Customize

You're receiving notifications because you're watching this repository.

1 participant

[Lock conversation](#)

Informasi
commit

Informasi
merging

Laman untuk
meninggalkan
feedback dan
komentar

Github for Workflow Management

- ✓ Clone and pull Repository
- ✓ Branch Management
- ✓ Manage code conflicts
- ✓ Create and review pull request

Terima Kasih!



M Ramadiansyah

Machine Learning Engineer

finAcel



Muhammad Ramadiansyah

<https://id.linkedin.com/in/muhammad-ramadiansyah>