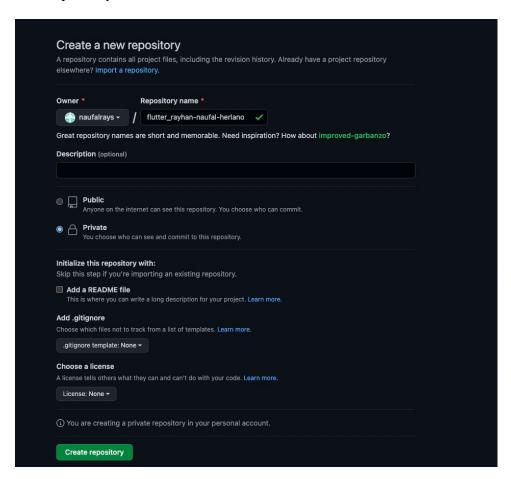
Rayhan Naufal Herlano 1_018FLC_0

Buat repository baru:



git init digunakan untuk membuat repository baru di lokal git remote digunakan untuk menghubungkan repository lokal ke remote server

```
pit init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint: git config —global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just—created branch can be renamed via this command:
hint:
hint: git branch —m <name>
Initialized empty Git repository in /Users/naufalrays/Alterra/flutter_rayhan—naufal—herlano/.git/
) git remote add origin https://github.com/naufalrays/flutter_rayhan—naufal—herlano.git
```

git add digunakan untuk menambahkan perubahan yang terjadi ke dalam stagging area **git commit** digunakan untuk menyimpan perubahan untuk siap dikirimkan ke remote repository **git push** digunakan untuk mengirimkan perubahan file ke remote repository yang telah dilakukan setelah di commit

```
> git add .
> git commit -m "Menambahkan folder ke dalam github"
[master (root-commit) 1ef3a69] Menambahkan folder ke dalam github
1 file changed, 3 insertions(+)
create mode 100644 3_Basic Version and Branch Management (Git)/Praktikum/main.dart
> git push origin master
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (5/5), 399 bytes | 399.00 KiB/s, done.
Writing objects: 100% (5/5), 399 bytes | 399.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/naufalrays/flutter_rayhan-naufal-herlano.git
* [new branch] master -> master

★ ▷ ~/Al/flutter_rayhan-naufal-herlano git p master

★ base ◆
```

git branch development digunakan untuk menambahkan branch development yang mana pada implementasi master, development, fiturA, dan fiturB maka development di sini akan menyimpan sebuah perubahan yang terjadi pada fiturA dan fitur B lalu mengirimkannya ke pada master branch

```
) git branch development
) git checkout development
Switched to branch 'development'
) git add .
> git commit -m "Menambahkan saya di branch development"
[development ab4e0d7] Menambahkan saya di branch development
 1 file changed, 1 insertion(+)
git push origin development
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 462 bytes | 462.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'development' on GitHub by visiting:
               https://github.com/naufalrays/flutter_rayhan-naufal-herlano/pull/new/development
remote:
remote:
To https://github.com/naufalrays/flutter_rayhan-naufal-herlano.git
 * [new branch]
                       development -> development
> ~/Al/flutter_rayhan-naufal-herlano
                                                                                                           base 🗣
```

git branch featureA/featureB adalah membuat branch baru bernama featureA/B, yang mana dalam kasus ini featureA/B nantinya akan mengirimkan perubahan ke branch development lalu jika sudah final maka akan dikirimkan ke branch master

```
) git branch featureA
) git branch featureB
) git checkout featureA
Switched to branch 'featureA'
) git add .
) git commit -m "Menambah dan mengedit fitur A"
[featureA f3cf921] Menambah dan mengedit fitur A
1 file changed, 1 insertion(+)
git push origin featureA
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 478 bytes | 478.00 KiB/s, done. Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'featureA' on GitHub by visiting:
             https://github.com/naufalrays/flutter_rayhan-naufal-herlano/pull/new/featureA
remote:
remote:
To https://github.com/naufalrays/flutter_rayhan-naufal-herlano.git
* [new branch] featureA -> featureA
```

git checkout featureB digunakan untuk berpindah branch ke featureB

```
) git checkout featureB
Switched to branch 'featureB'
) git add .
> git commit -m "Menambah dan mengedit fitur B"
[featureB ffafe94] Menambah dan mengedit fitur B
1 file changed, 1 insertion(+)
> git push origin featureB
Enumerating objects: 9, done.
Counting objects: 100% (9/9), done.
Delta compression using up to 8 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 476 bytes | 476.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'featureB' on GitHub by visiting:
            https://github.com/naufalrays/flutter_rayhan-naufal-herlano/pull/new/featureB
remote:
To https://github.com/naufalrays/flutter_rayhan-naufal-herlano.git
                  featureB -> featureB
 * [new branch]
base •
```

git stash digunakan untuk menyimpan perubahan yang terjadi ke dalam stash, jadi perubahan akan disimpan dan jika dilihat pada codingan perubahannya akan menghilang/disimpan

git stash apply digunakan untuk mengaplikasikan perubahan yang telah disimpan ke dalam stash lalu digunakan pada codingan perubahan yang sekarang

Error stash : terjadi karena adanya perbedaan line yang lama dengan line yang baru, ada opsi yang mana kita akan menerima line yang baru, line yang lama, dan line keduanya kita gabungkan

Merge no fast-forward digunakan untuk menggabungkan sebuah branch dengan branch lain, dan no fast forward berfungsi untuk menunjukkan perubahan pada graph, perubahan yang terjadi terlihat bercabang jadi kita akan lebih mudah tracking perubahannya

Merge development dengan branch B akan menimbulkan konflik dikarenakan sebelumnya branch A merge dengan development membawa perubahan yang mana line branch A dengan branch B sama.

Tampilan pada terminal:

git stash drop digunakan untuk menghilangkan perubahan yang telah disimpan pada stash

```
) git stash drop
Dropped refs/stash@{0} (8e3a50bccf97ce30799111f44272b9a57dfdf5e8)
) git checkout master
Switched to branch 'master'
) git merge --no-ff development
Merge made by the 'ort' strategy.
3_Basic Version and Branch Management (Git)/Praktikum/main.dart | 8 ++++++++
 1 file changed, 8 insertions(+)
git push origin master
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 232 bytes | 232.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/naufalrays/flutter_rayhan-naufal-herlano.git
   1ef3a69..758e72c master -> master
 • ~/Al/flutter_rayhan-naufal-herlano gt 🖁 master !1
                                                                              ✓ base ◆
```

git pull digunakan untuk menggabungkan perubahan yang ada pada remote repository ke direktori lokal

```
git pull --no-ff origin master
From https://github.com/naufalrays/flutter_rayhan-naufal-herlano
                    master -> FETCH_HEAD
hint: Waiting for your editor to close the file... error: There was a problem with th
e editor 'vi'.
Not committing merge; use 'git commit' to complete the merge.
 git status
On branch master
All conflicts fixed but you are still merging.
  (use "git commit" to conclude merge)
Changes to be committed:
                  3_Basic Version and Branch Management (Git)/Screenshot/Conflict S
        new file:
                   3_Basic Version and Branch Management (Git)/Screenshot/Membuat re
pository baru.png
                    3_Basic Version and Branch Management (Git)/Screenshot/Tampilan G
raph.png
        new file: 3_Basic Version and Branch Management (Git)/Screenshot/conflict m
erge.png
```

Graph akhir dari implementasi branch master, development, featureA, dan featureB

