ACTIVITY PRAKTIKUM

Mata Praktikum : Rekayasa Perangkat Lunak 2

Kelas : 4IA14

Praktikum ke- :7

Tanggal: 25 November 2024

Materi : Dokumentasi Pengembangan Perangkat

Lunak Terpadu, Version Control System, Git,

Github

NPM : 50421425

Nama : Evan Caesar Daniel Sihotang

Ketua Asisten : Suryo Adji Widagdo

Paraf Asisten :

Nama Asisten :

Jumlah Lembar : Lembar

- 1. Jelaskan apa itu git dan bagaimana git dapat membantu kerja sama tim
- Lakukan operasi-operasi yang dapat dilakukan pada github seperti membuat repository, clone repository, git push dan git pull

Jawaban:

1. Git adalah salah satu sistem pengontrol versi (Version Control System) pada proyek perangkat lunak yang diciptakan oleh Linus Torvalds.

Pengontrol versi bertugas mencatat setiap perubahan pada file proyek yang dikerjakan oleh banyak orang maupun sendiri.

Git dikenal juga dengan distributed revision control (VCS terdistribusi), artinya penyimpanan database Git tidak hanya berada dalam satu tempat saja.

Git dapat membantu kerja sama tim seperti dibawah:

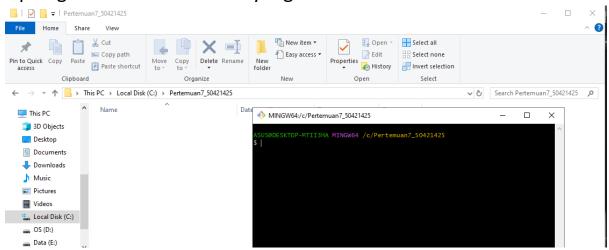
- Setiap anggota tim dapat menyimpan salinan lengkap proyek di komputer mereka dan membuat perubahan tanpa memengaruhi proyek utama sampai siap untuk digabungkan.
- Git memungkinkan banyak orang untuk bekerja bersamasama dalam proyek yang sama dengan mempermudah kolaborasi melalui repositori pusat (misalnya GitHub), di mana tim dapat berbagi, mengelola, dan mengomentari perubahan.
- Git menyimpan riwayat perubahan sehingga tim dapat melacak perubahan yang telah dilakukan, serta memulihkan versi sebelumnya jika ada masalah.

2. Buat repository baru di github

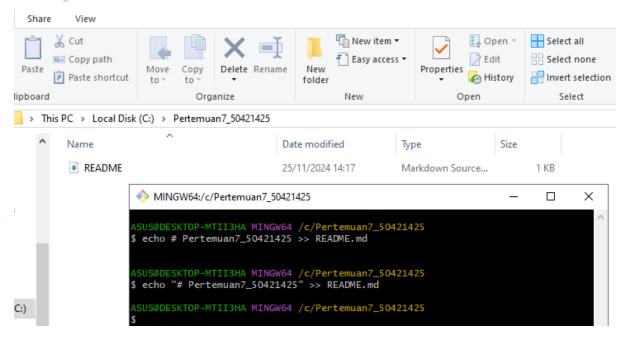
Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository. Required fields are marked with an asterisk (*). Owner * Repository name * EvanSihotang * Pertemuan7_50421425 Pertemuan7_50421425 is available. Great repository names are short and memorable. Need inspiration? How about vigilant-carnival? Description (optional) Public Anyone on the internet can see this repository. You choose who can commit. Private You choose who can see and commit to this repository. Initialize this repository with: Add a README file This is where you can write a long description for your project. Learn more about READMES. Add .gitignore .gitignore template: None 🔻 Choose which files not to track from a list of templates. Learn more about ignoring files. Choose a license License: None + A license tells others what they can and can't do with your code. Learn more about licenses. (i) You are creating a public repository in your personal account.

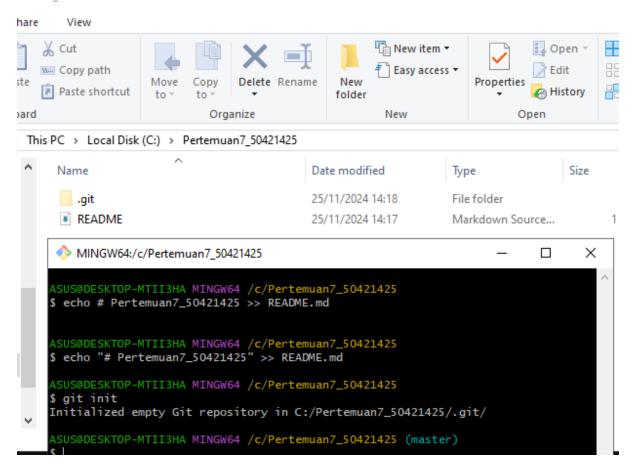
Open git bash di folder baru yang telah dibuat







muan7_50421425



```
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the nex
t time Git touches it

ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (master)
$ git status
On branch master

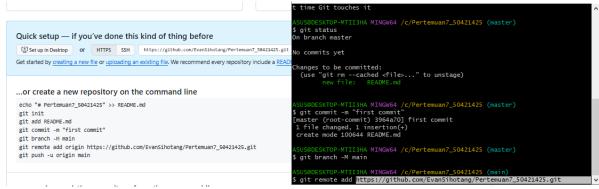
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file: README.md
```

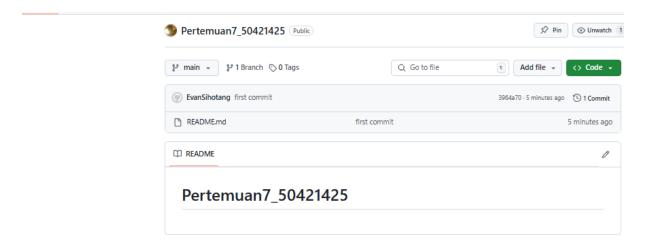
```
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (master)
$ git commit -m "first commit"
[master (root-commit) 3964a70] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (master)
$ git branch -M main
```

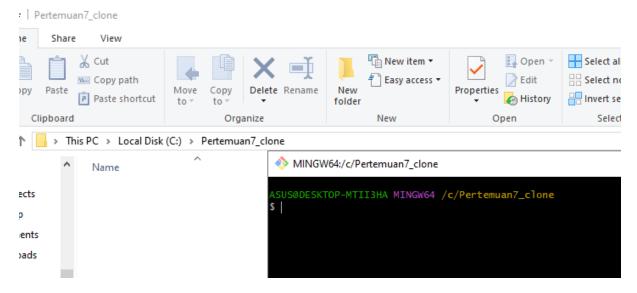
Copy paste link github



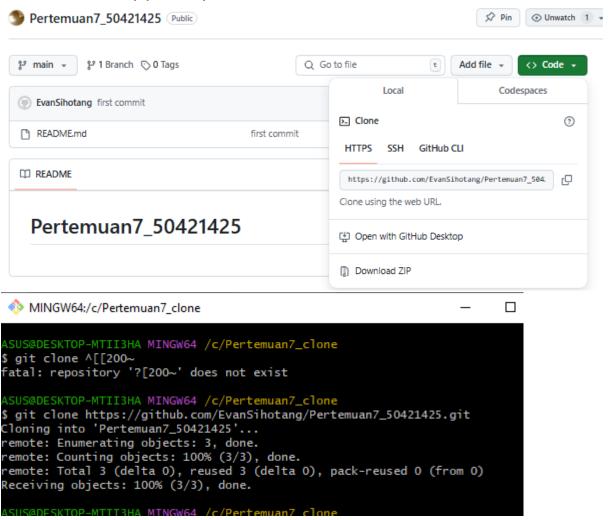
```
DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
$ git push -u origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.
Please make sure you have the correct access rights
and the repository exists.
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
$ git remote add origin https://github.com/EvanSihotang/Pertemuan7_50421425.git
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
$ git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 241 bytes | 241.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/EvanSihotang/Pertemuan7_50421425.git
* [new branch]
                      main -> main
branch 'main' set up to track 'origin/main'.
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
```



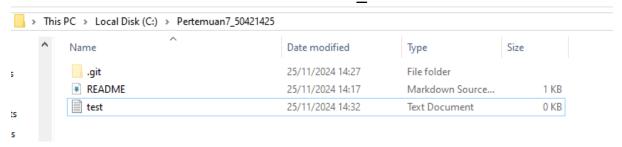
Pertemuan7_Clone



Tekan Code, copy linknya



Buat text file baru di folder Pertemuan 750421425



```
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.
Untracked files:
 (use "git add <file>..." to include in what will be committed)
        test.txt
nothing added to commit but untracked files present (use "git add" to trac
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
$ git add .
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)
$ git status
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: test.txt
```

```
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)

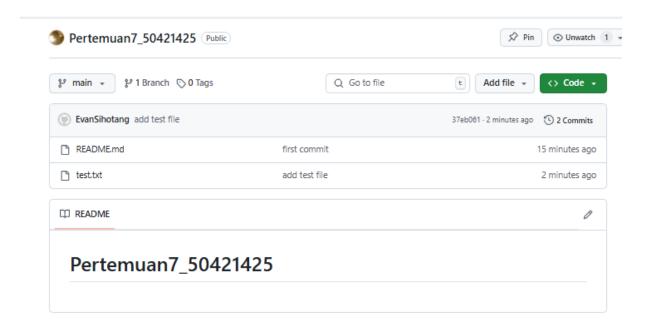
$ git commit -m "add test file"
[main 37eb061] add test file

1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt

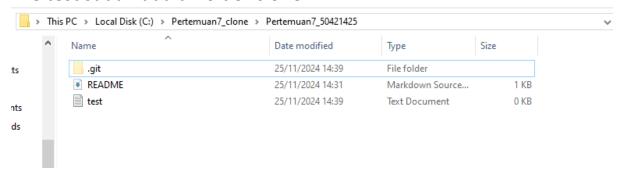
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_50421425 (main)

$ |
```

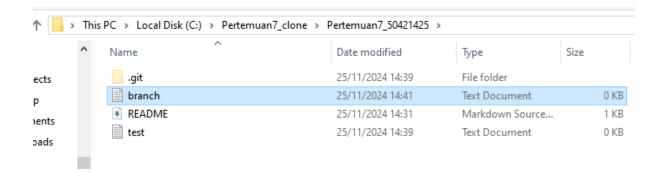
Bertambah 1 file test.txt



File test sudah ada di folder clone



Buat file txt baru bernama branch



```
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (main)

§ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:

(use "git add <file>..." to include in what will be committed)

branch.txt

nothing added to commit but untracked files present (use "git add" to track)
```

```
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (main)

$ git branch coba

ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (main)

$ git checkout coba

Switched to branch 'coba'

ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (coba)

$ git status

On branch coba

Jintracked files:

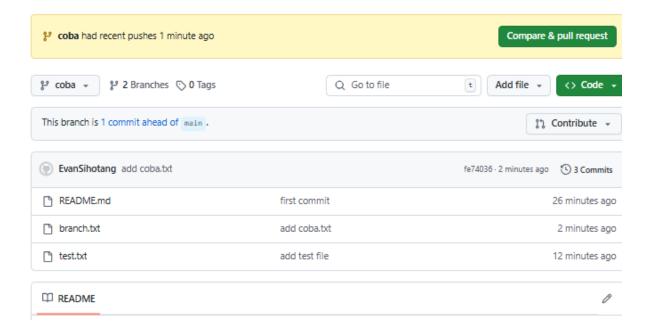
(use "git add <file>..." to include in what will be committed)

branch.txt

nothing added to commit but untracked files present (use "git add" to track)
```

```
FOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (coba)
 git add .
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (coba) $ git commit -m "add coba.txt"
[coba fe74036] add coba.txt
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 branch.txt
ASUS@DESKTOP-MTII3HA MINGW64 /c/Pertemuan7_clone/Pertemuan7_50421425 (coba)
$ git push -u origin coba
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Delta compression using up to 2 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 282 bytes | 11.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
remote:
remote: Create a pull request for 'coba' on GitHub by visiting:
remote:
              https://github.com/EvanSihotang/Pertemuan7_50421425/pull/new/coba
remote:
To https://github.com/EvanSihotang/Pertemuan7_50421425.git
   [new branch]
                      coba -> coba
```

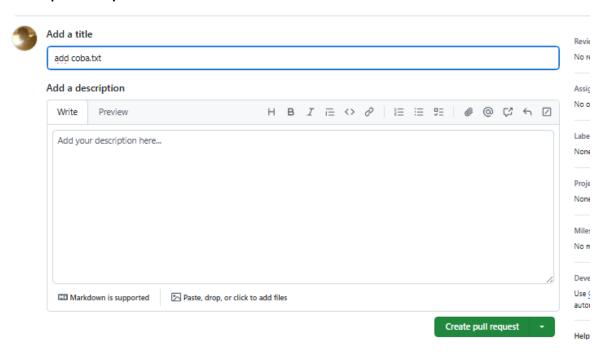
Isi dari branch coba



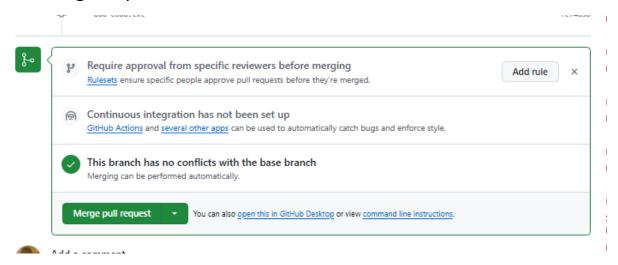
Klik compare dan pull request



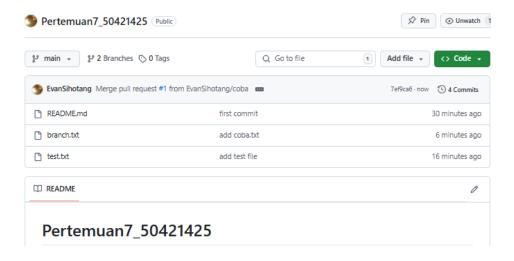
Create pull request



Klik merge request



Tampilan Main setelah merge



Isi folder Pertemuan7_50421425 setelah git pull

