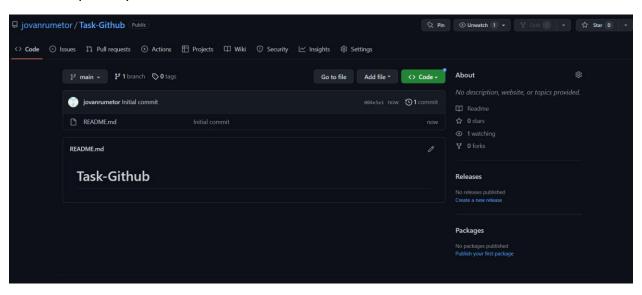
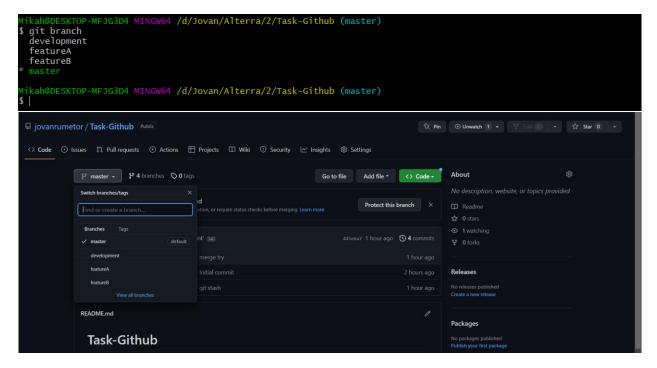
## **TASK GITHUB**

1. Buat Repository di Github



Gambar 1. Repository di github

2. Implementasikan penggunaan branching yang terdiri dari master, development, featureA, featureB.



Gambar 2. Branch di repository

3. Implementasikan intruksi git untuk push, pull, stash dan merge

```
AtkahBDESKTOP-MFJG3D4 MINOWG4 /d/Jovan/Alterra/2/Task-Github
S git init
Initialized empty Git repository in D:/Jovan/Alterra/2/Task-Github/.git/

AikahBDESKTOP-MFJG3D4 MINOWG4 /d/Jovan/Alterra/2/Task-Github (master)
S git remote add origin "https://github.com/jovanrumetor/Task-Github.git"

AikahBDESKTOP-MFJG3D4 MINOWG4 /d/Jovan/Alterra/2/Task-Github (master)
S git pull origin main
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
JMPAcking objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0)
JMPAcking objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 rojgin/main

AikahBDESKTOP-MFJG3D4 MINOWG4 /d/Jovan/Alterra/2/Task-Github (master)
S git checkout -b development

AikahBDESKTOP-MFJG3D4 MINOWG4 /d/Jovan/Alterra/2/Task-Github (development)
S git commit -m "development branch"
In branch development
In branch development
In branch development
In branch development
S git add .

AikahBDESKTOP-MFJG3D4 MINOWG4 /d/Jovan/Alterra/2/Task-Github (development)
S git push origin development

Total 0 (delta 0) , reused 0 (delta 0)
remote: Create a pull request for 'development' on Github by visiting:
remote: Total Create a pull request for 'development' on Github pull/new/development

Total (development -> development -> dev
```

Gambar 3. Git Pull dan Push

```
fikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
$ git add .
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
Saved working directory and index state WIP on master: 004e5e1 Initial commit
 4ikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
$ git status
On branch master
nothing to commit, working tree clean
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
$ git stash pop
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
         new file:
Dropped refs/stash@{0} (66d0029f66780b1179a2c402cf7f9e7761e49057)
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
$ git git commit -m "git stash"
git: 'git' is not a git command. See 'git --help'.
The most similar command is
          init
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
$ git commit -m "git stash"
[master Oba5ed6] git stash
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 Test.txt
 Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 268 bytes | 268.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/jovanrumetor/Task-Github.git
   004e5e1..0ba5ed6 master -> master
 11ikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)
```

Gambar 4. Git Stash

Gambar 5. Git Merge

4. Implementasikan sebuah penanganan conflict di branch development Ketika setelah merge dari branch featureA lalu merge dari branch featureB (Conflict bisa terjadi jika kedua branch mengerjakan di file dan line code yang sama)

```
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (development)

$ git merge featureA

Merge made by the 'recursive' strategy.

Git.txt | 6 ++++++

1 file changed, 6 insertions(+)

create mode 100644 Git.txt

Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (development)

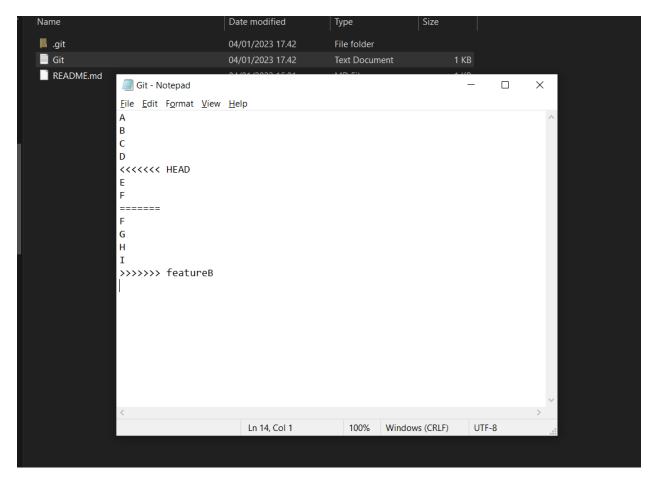
$ git merge featureB

CONFLICT (add/add): Merge conflict in Git.txt

Auto-merging Git.txt

Automatic merge failed; fix conflicts and then commit the result.
```

Gambar 6. Merge Conflict



Gambar 7. Resolve Conflict

```
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (development|MERGING)

$ git status
On branch development
All conflicts fixed but you are still merging.
   (use "git commit" to conclude merge)

Changes to be committed:
   modified: Git.txt

Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (development|MERGING)

$ git commit
[development e4655cb] Merge branch 'featureB' into development "resolve conflict"

Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (development)

$ |
```

Gambar 8. Conflict Resolved

## 5. Gunakan merge no fast forward

```
Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)

$ git merge --no-ff development

Merge made by the 'recursive' strategy.

Git.txt | 9 ++++++++++++

1 file changed, 9 insertions(+)

Mikah@DESKTOP-MFJG3D4 MINGW64 /d/Jovan/Alterra/2/Task-Github (master)

$ |
```

Gambar 9. Merge –no-ff