



examples
flow
packages
scripts
src
test
types
.babelrc.js
.editorconfig
.eslintignore

Gitlab

Virtual Internship Experience

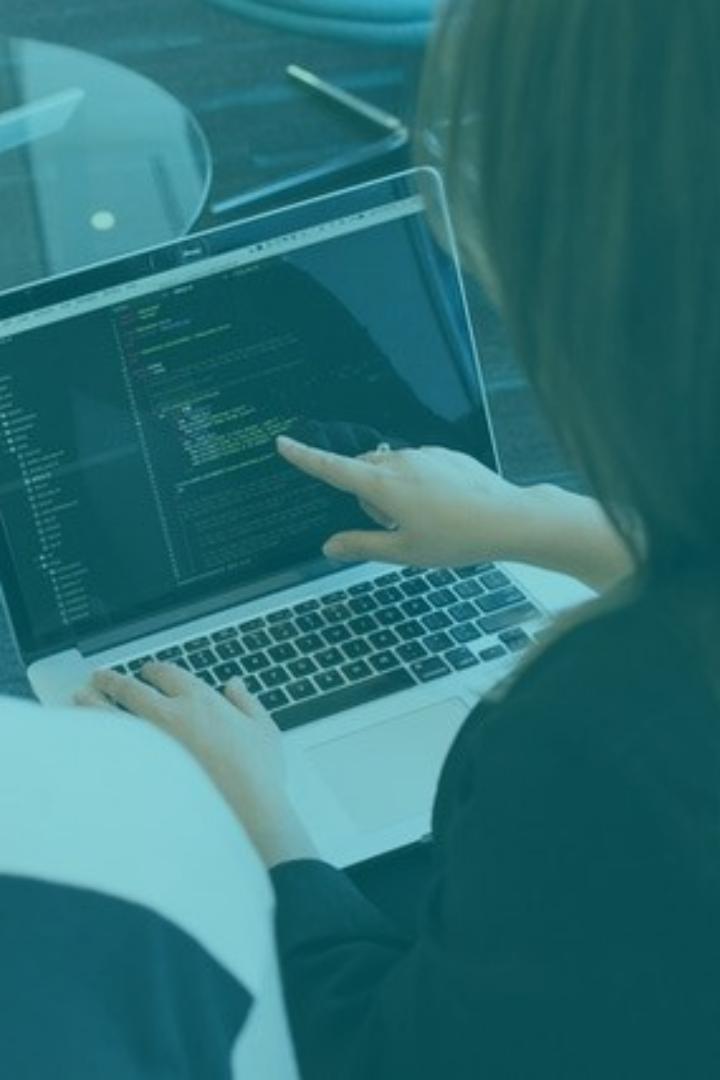


Disclaimer

“Dokumen ini memiliki hak cipta. Barang siapa yang menyebarluaskan atau menduplikasi tanpa izin dari instansi terkait dapat diproses sesuai dengan ketentuan hukum yang berlaku.”

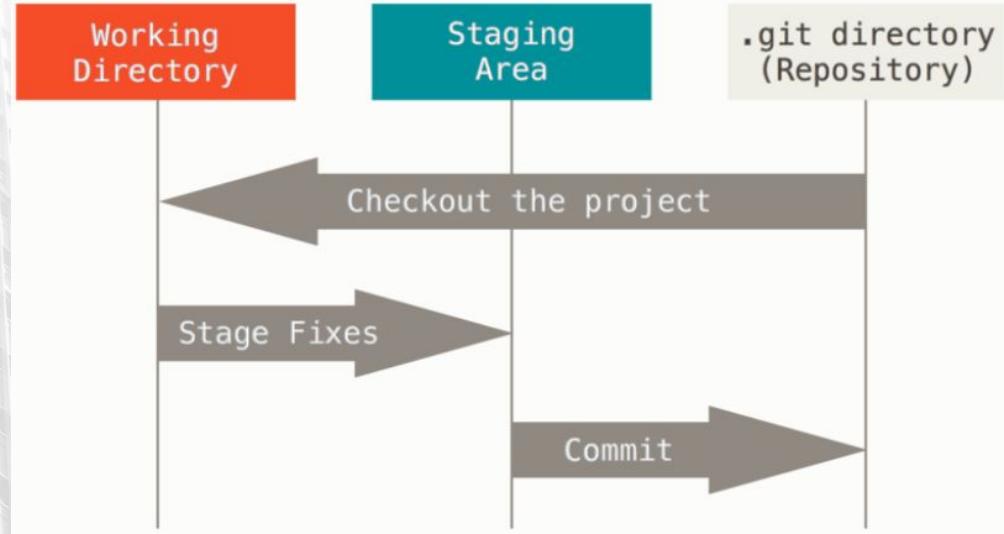
Outline

- 1 Git**
- 2 Gitlab**
- 3 Case Study**



Git

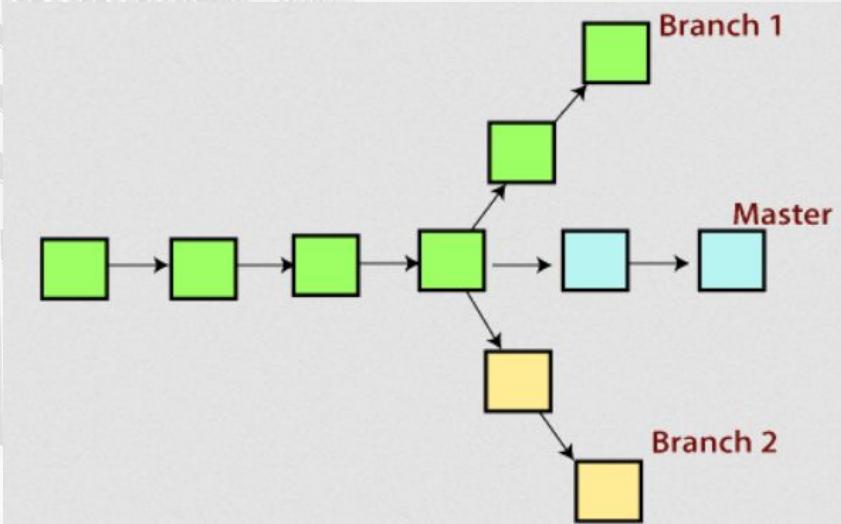
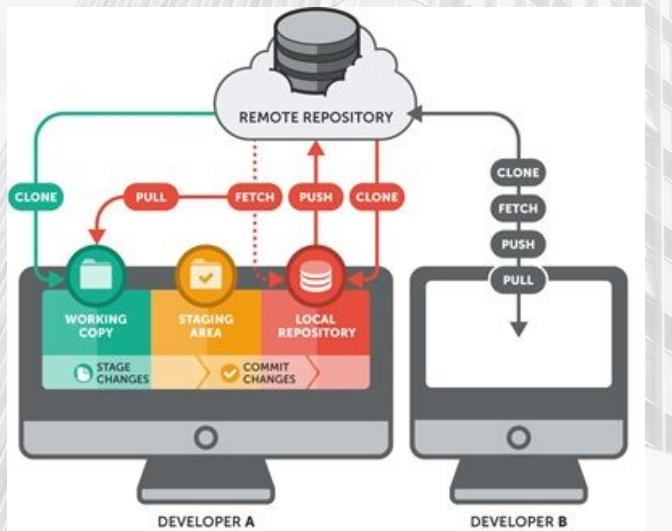
- **Version control** adalah sebuah sistem yang mencatat setiap perubahan terhadap sebuah berkas atau kumpulan berkas sehingga pada suatu saat kita dapat kembali kepada salah satu versi dari berkas tersebut.
- **Git** merupakan salah satu *tools* VCS, sehingga Git dapat menghindarkan pekerjaan kita bertabrakan dengan pekerjaan teman kita.



Istilah dalam Git



- Repository : Istilah yang digunakan untuk direktori / folder project yang menggunakan Git
- Local Repository : Repository yang tersimpan pada komputer lokal (offline)
- Remote Repository : Repository yang tersimpan pada layanan git cloud (online)
- Branch : Cabang dari repository yang dapat digunakan untuk membuat perubahan.



Basic Git Commands



- Git config
- Git init
- Git clone <path>
- Git status
- Git add <file_name>
- Git commit
- Git remote
- Git checkout <branch_name>
- Git push
- Git pull
- Git merge <branch_name>

Gitlab



- GitLab merupakan salah satu git repository berbasis cloud sekaligus DevOps platform.
- Platform ini membantu developer untuk memonitor, melakukan tes dan deploy kode mereka.



Case Study

Praktik Git Commands di Android Studio



Kita akan **membuat repository lokal pada komputer kita dan repository remote di Gitlab** untuk project yang telah kita buat pada Video Learning 2.

Pastikan sudah install dan melakukan konfigurasi awal Git!

Buka project Android untuk Video Learning ke 2 (CRUD) pada Android Studio. Kemudian buka tab terminal pada bagian bawah area editor.

A screenshot of the Android Studio interface. The main area shows Java code for an Activity. On the left, there are toolbars for Structure, Bookmarks, and Build Variants. The bottom navigation bar includes tabs for Version Control, TODO, Problems, Terminal, Logcat, App Inspection, and Profiler. The 'Terminal' tab is highlighted with a red box. The terminal window shows a Windows PowerShell prompt at PS D:\Jo\Animal>. The status bar at the bottom indicates: '* daemon started successfully (moments ago)'.

Praktik Git Commands di Android Studio



Untuk membuat repository untuk project Android, ketik perintah / command :
"git init"

```
PS D:\Jo\Animal> git init
Initialized empty Git repository in D:/Jo/Animal/.git/
PS D:\Jo\Animal>
```

Praktik Git Commands di Android Studio



Jalankan command “**git add .**” untuk menambahkan semua file project pada git lokal.

```
PS D:\Jo\Animal> git add .
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'app/build.gradle', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'app/proguard-rules.pro', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'app/src/androidTest/java/com/example/animal/ExampleInstrumentedTest.kt' LF will b
```

Praktik Git Commands di Android Studio



Jalankan command “**git commit -m “nama commit”** untuk melakukan commit pada branch aktif.

```
PS D:\Jo\Animal> git commit -m "First change"
[master (root-commit) d02f3d1] First change
 72 files changed, 1332 insertions(+)
 create mode 100644 .gitignore
 create mode 100644 .idea/.gitignore
 create mode 100644 .idea/compiler.xml
 create mode 100644 .idea/gradle.xml
 create mode 100644 .idea/misc.xml
 create mode 100644 .idea/vcs.xml
 create mode 100644 app/.gitignore
 create mode 100644 app/build.gradle
 create mode 100644 app/proguard-rules.pro
 create mode 100644 app/src/androidTest/java/c
 create mode 100644 app/src/main/AndroidManife
 create mode 100644 app/src/main/ic animal.car
```

Praktik Git Commands di Android Studio



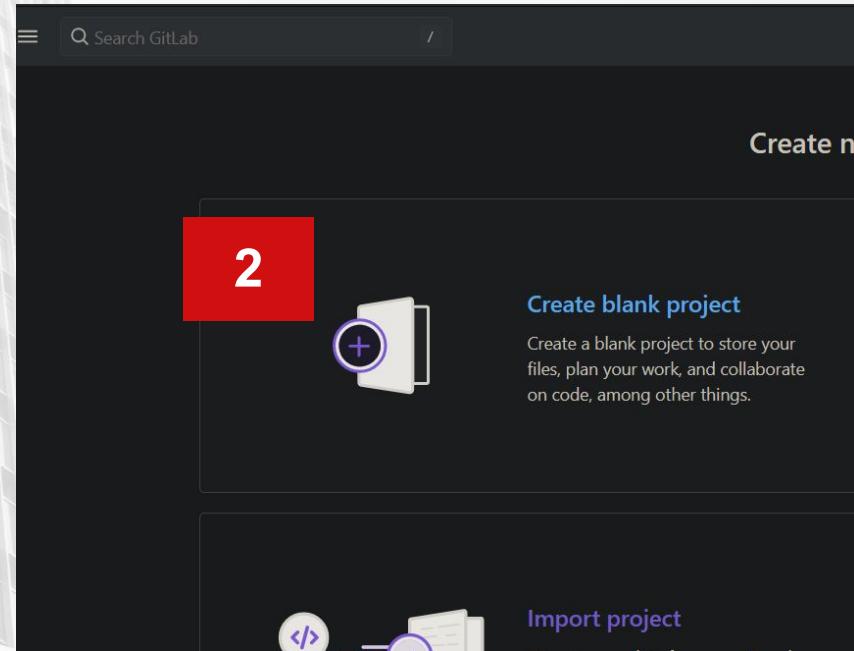
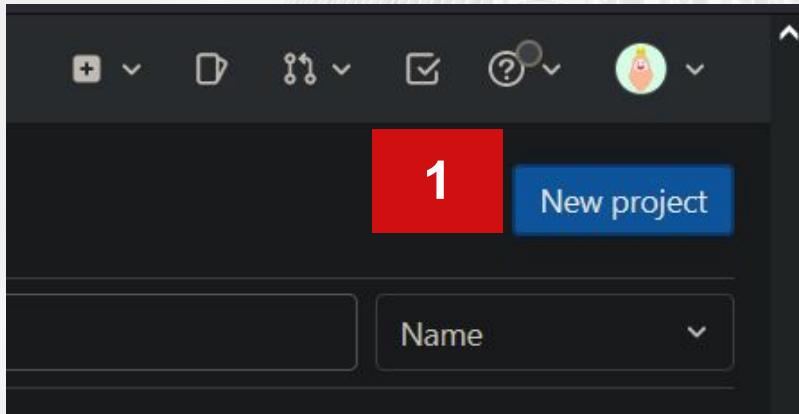
Jalankan command “**git status**” untuk melihat status dari branch yang aktif

```
PS D:\Jo\Animal> git status
On branch master
nothing to commit, working tree clean
```

Praktik Git Commands di Android Studio



Buat repository pada akun gitlab masing-masing pada *web browser*



Praktik Git Commands di Android Studio



Buat repository pada akun gitlab

The screenshot shows the 'Create blank project' page on GitLab. The 'Project name' field contains 'Animal'. The 'Project URL' field shows 'https://gitlab.com/' followed by a redacted URL segment. The 'Project slug' field shows 'animal'. The 'Visibility Level' section has 'Private' selected. Under 'Project Configuration', 'Initialize repository with a README' is checked, and 'Enable Static Application Security Testing (SAST)' is unchecked. At the bottom are 'Create project' and 'Cancel' buttons.

New project > Create blank project

Create blank project

Create a blank project to store your files, plan your work, and collaborate on code, among other things.

Project name
Animal

Project URL
https://gitlab.com/ [REDACTED] / animal

Project slug

Want to organize several dependent projects under the same namespace? [Create a group](#).

Project deployment target (optional)
Select the deployment target

Visibility Level [?](#)

Private
Project access must be granted explicitly to each user. If this project is part of a group, access is granted to members of the group.

Public
The project can be accessed without any authentication.

Project Configuration

Initialize repository with a README
Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.

Enable Static Application Security Testing (SAST)
Analyze your source code for known security vulnerabilities. [Learn more](#).

Create project **Cancel**

Praktik Git Commands di Android Studio



Jalankan command “**git remote add origin <url remote repository>**” untuk men-set remote repository untuk project kita.

```
PS D:\Jo\Animal> git remote add origin https://gitlab.com/animal.git  
PS D:\Jo\Animal>
```

Praktik Git Commands di Android Studio



Jalankan command "**git push origin <nama branch>**" untuk menyimpan commit ke remote repository

```
PS D:\Jo\Animal> git push -uf origin master
Enumerating objects: 106, done.
Counting objects: 100% (106/106), done.
Delta compression using up to 8 threads
Compressing objects: 100% (90/90), done.
Writing objects: 100% (106/106), 1.64 MiB | 970.00 KiB/s, done.
Total 106 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
remote:
remote: To create a merge request for master, visit:
remote: https://gitlab.com/[REDACTED]/animal/-/merge_requests/new?merge_request%5Bsource_branch%5D=master
remote:
To https://gitlab.com/[REDACTED]/animal.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.
PS D:\Jo\Animal>
```

Praktik Git Commands di Android Studio



Hasil akhir, remote repository berhasil terbuat dan project berhasil di-upload pada repository tersebut di Gitlab :

The screenshot shows a GitLab repository page for a project named 'Animal'. The left sidebar contains navigation links for Project information, Repository, Files, Commits, Branches, Tags, Contributors, Graph, Compare, Issues (0), Merge requests (0), CI/CD, Security & Compliance, Deployments, Packages and registries, Infrastructure, and Monitor. The main content area displays a list of files with their commit history. The commits are all labeled 'First change' and were authored 16 minutes ago. The commit hash for each file is shown in the top right corner of its respective row.

Name	Last commit	Last update
idea	First change	16 minutes ago
app	First change	16 minutes ago
gradle/wrapper	First change	16 minutes ago
.gitignore	First change	16 minutes ago
build.gradle	First change	16 minutes ago
gradle.properties	First change	16 minutes ago
gradlew	First change	16 minutes ago
gradlew.bat	First change	16 minutes ago
settings.gradle	First change	16 minutes ago



Thank You!

