

ACTIVITY PERTEMUAN 7

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KELAS: 4IA11

MATERI : Dokumentasi Pengembangan Perangkat Lunak Terpadu , Version Control System, Git, dan Github

MATA PRAKTIKUM : Rekayasa Perangkat Lunak

(Screenshoot langkah-langkah sesuai video pembelajaran dan jelaskan dengan ringkas)

1. jelaskan apa itu Git bagaimana git dapat membantu dalam kerja sama team

Git adalah sistem kontrol versi terdistribusi yang memungkinkan pengelolaan kode sumber secara efisien, memungkinkan banyak pengembang bekerja pada proyek yang sama tanpa khawatir menimpa pekerjaan satu sama lain. Dengan Git, setiap anggota tim memiliki salinan repositori lengkap di komputer mereka, termasuk riwayat perubahan, yang memungkinkan mereka untuk bekerja secara independen dan bebas. Ketika seorang pengembang selesai dengan perubahannya, mereka dapat melakukan *commit* untuk menyimpan perubahan tersebut secara lokal, dan kemudian mengirimkan (push) perubahan ke repositori jarak jauh, di mana rekan tim lainnya dapat mengakses dan menggabungkan perubahan tersebut dengan kode mereka. Git juga memudahkan kolaborasi dengan fitur seperti *branching*, yang memungkinkan anggota tim untuk bekerja di fitur terpisah tanpa saling mengganggu, dan kemudian menggabungkan perubahan tersebut dengan cara yang aman dan terkontrol. Fitur-fitur seperti *merge* dan *pull request* membuat tim dapat meninjau perubahan, mengidentifikasi potensi konflik, dan mengatasi masalah sebelum perubahan diterapkan. Dengan cara ini, Git memastikan bahwa kolaborasi dalam pengembangan perangkat lunak berjalan lancar, efisien, dan terstruktur, bahkan dalam tim yang besar atau proyek yang kompleks.

```
MINGW64:/c/Users/ramaa
ramaa@Rama_Adi_Satria MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=openssl
http.sslcainfo=D:/Git/Git/mingw64/etc/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:/Users/ramaa/AppData/Local/Programs/Microsoft VS Code/bin/code" -
-wait
user.email=ramaadibogor@gmail.com
user.name=ramrambgr
user.github=ramaadibogor@gmail.com

ramaa@Rama_Adi_Satria MINGW64 ~
$ |
```

```
MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
$ echo # Pertemuan7_51421248 >> README.md

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
$ echo "# Pertemuan7_51421248" >> README.md

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
$ git init
Initialized empty Git repository in D:/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248/.
git/

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (master
)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
  README.md
```

```
MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
nothing added to commit but untracked files present (use "git add" to track)

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (master)
$ git status
On branch master

No commits yet

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

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (master)
$ git commit -m "first commit"
[master (root-commit) 15ed03a] first commit
```

```
MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
1 file changed, 1 insertion(+)
create mode 100644 README.md

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (master)
$ git branch -M main

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$ git remote add https://github.com/ramrambgr/Pertemuan7_51421248.git
usage: git remote add [<options>] <name> <url>

    -f, --[no-]fetch          fetch the remote branches
    --[no-]tags              import all tags and associated objects when fetching
                             or do not fetch any tag at all (--no-tags)
    -t, --[no-]track <branch>
                             branch(es) to track
    -m, --[no-]master <branch>
                             master branch
    --[no-]mirror[=(push|fetch)]
                             set up remote as a mirror to push to or fetch from

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$ git push -u origin main
```


```
MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (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.

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$ git remote add origin https://github.com/ramrambgr/Pertemuan7_51421248.git


ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$ git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 232 bytes | 232.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/ramrambgr/Pertemuan7_51421248.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.


ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$
```


 Pertemuan7_51421248 Public Pin Unwatch 1

main 1 Branch 0 Tags

Go to file Add file Code

 ramrambgr first commit 15ed03a · 19 minutes ago 1 Commit

 README.md first commit 19 minutes ago

README 

Pertemuan7_51421248

✓	Pertemuan7_51421248	29/11/2024 14:01	File folder	
	Pertemuan7_clone	29/11/2024 13:58	File folder	
	4-Tekrek-M7-Shakespeare-Generation	15/11/2024 14:53	Jupyter Source File	58 KB
	ACT1_RamaAdiSatria_51421248	18/10/2024 14:09	Microsoft Edge PD...	108 KB
	ACT2_RamaAdiSatria_51421248	25/10/2024 13:17	Microsoft Edge PD...	182 KB
	ACT4_RamaAdiSatria_51421248	08/11/2024 15:31	Microsoft Edge PD...	1.461 KB
	ACT5_RamaAdiSatria_51421248	15/11/2024 14:22	Microsoft Edge PD...	1.089 KB
	ACT6_RamaAdiSatria_51421248	22/11/2024 14:38	Microsoft Edge PD...	961 KB
	Kelompok 5 Penanganan insiden	20/11/2024 11:57	Microsoft Edge PD...	2.309 KB
	LA1_RamaAdiSatria_51421248	18/10/2024 14:40	Microsoft Edge PD...	120 KB
	LA2_RamaAdiSatria_51421248	25/10/2024 14:29	Microsoft Edge PD...	288 KB
	LA3_RamaAdiSatria_51421248	03/11/2024 08:53	Microsoft Edge PD...	721 KB
	LA4_RamaAdiSatria_51421248	10/11/2024 11:53	Microsoft Edge PD...	765 KB
	LA5_RamaAdiSatria_51421248	16/11/2024 23:02	Microsoft Edge PD...	746 KB
	LA6_RamaAdiSatria_51421248	25/11/2024 20:15	Microsoft Word D...	752 KB
	LA6_RamaAdiSatria_51421248	25/11/2024 20:15	Microsoft Edge PD...	754 KB
	Main	25/10/2024 14:16	Java Source File	2 KB
	parkiran	16/11/2024 19:43	Compressed (zipp...	6 KB
	Pertemuan2	25/10/2024 13:04	Java Source File	2 KB
	SimulasiHewanOOP	25/10/2024 14:01	Java Source File	2 KB
	sonnets	15/11/2024 18:36	Text Document	94 KB
	WhatsApp Image 2024-11-15 at 19.03....	15/11/2024 19:03	JPG File	170 KB
	WhatsApp Image 2024-11-18 at 13.25....	18/11/2024 13:26	JPG File	496 KB

```

MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone
ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone
$ git clone https://github.com/ramrambgr/Pertemuan7_51421248.git
Cloning into 'Pertemuan7_51421248'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone
$


```

```
MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248
(use "git restore --staged <file>..." to unstage)
new file:   test.txt

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$ git commit -m "add test file"
[main 2e1f014] add test file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 test.txt

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$ git push -u origin main
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 273 bytes | 273.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/ramrambgr/Pertemuan7_51421248.git
   15ed03a..2e1f014  main -> main
branch 'main' set up to track 'origin/main'.

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_51421248 (main)
$
```


 Pertemuan7_51421248 Public Pin Unwatch 1



main 1 Branch 0 Tags

Go to file

Add file

Code

 ramrambgr add test file 2e1f014 · 1 minute ago 2 Commits

 README.md	first commit	24 minutes ago
 test.txt	add test file	1 minute ago

README

Pertemuan7_51421248

```
MINGW64:/d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone/Pertemuan7_51421248
ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone
$ cd Pertemuan7_51421248

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone/Pertemuan7_51421248 (main)
$ git pull
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0 (from 0)
Unpacking objects: 100% (3/3), 253 bytes | 36.00 KiB/s, done.
From https://github.com/ramrambgr/Pertemuan7_51421248
   15ed03a..2e1f014  main       -> origin/main
Updating 15ed03a..2e1f014
Fast-forward
 test.txt | 0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 test.txt

ramaa@Rama_Adi_Satria MINGW64 /d/PRAKTIKUMRPLTERBARU/Pertemuan7_clone/Pertemuan7_51421248 (main)
$ |
```

> This PC > New Volume (D:) > PRAKTIKUMRPLTERBARU > Pertemuan7_clone > Pertemuan7_51421248				
🔍 📄 🗑️ ⬆️ Sort ▾ ≡ View ▾ ⋮				
<input type="checkbox"/> Name	Date modified	Type	Size	
📁 .git	29/11/2024 14:12	File folder		
📄 README	29/11/2024 13:58	Markdown Source ...	1 KB	
📄 test	29/11/2024 14:12	Text Document	0 KB	

coba had recent pushes 2 minutes ago

Compare & pull request

coba 2 Branches 0 Tags

Go to file

Add file

Code

This branch is 1 commit ahead of main.

Contribute

ramrambgr add cobra.txt

3b7d24b · 2 minutes ago 3 Commits

README.md	first commit	34 minutes ago
branch.txt	add cobra.txt	2 minutes ago
test.txt	add test file	10 minutes ago

README

Pertemuan7_51421248

Conversation 0 Commits 1 Checks 0 Files changed 1



ramrambgr commented now

Owner

No description provided.



add cobra.txt

3b7d24b

ramrambgr merged commit f8d38f9 into main now

Revert



Pull request successfully merged and closed

You're all set—the cobra branch can be safely deleted.

Delete branch



Add a comment

main 2 Branches 0 Tags

Go to file

Add file

Code

ramrambgr Merge pull request #1 from ramrambgr/coba

f8d38f9 · now 4 Commits

README.md	first commit	36 minutes ago
branch.txt	add cobra.txt	5 minutes ago
test.txt	add test file	13 minutes ago

README