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# **PROJETO FINAL DAS**

# ÍNDICE

Índice	1
Introdução	2
Link Repositório	3
Criação do Repositório	4
Branches Git Flow	5
Demonstração das Operações Efetuadas	6

## INTRODUÇÃO

Este projeto foi realizado com o objetivo de demonstrarmos a nossa habilidade no que toca a trabalhar em equipa utilizando as ferramentas Git, Git Hub e Git Flow.

Ao longo deste projeto iremos demonstrar como conseguimos gerir as versões deste relatório utilizando a ferramenta Git

# LINK REPOSITÓRIO

<https://github.com/LuisMartins21/ProjetoFinal>

The screenshot shows the GitHub interface for the repository 'ProjetoFinal' by user 'LuisMartins21'. The repository is public and has 6 branches, 0 tags, and 25 commits. The main branch is 'main'. The repository contains files: .gitignore, BetaPF1.pdf, README.txt, and index.html. The README file is selected and shows the following content:

Projeto Final  
Disciplina> DAS (Desenvolvimento Agil de Software)

Descrição:

Objetivo  
Neste projeto pretende-se que crie um repositório no GitHub, usando em primeira instância o command line do Git.  
O repositório terá de ter as seguintes regras:

1. Deve ter criados todos os branches necessários para a utilização do modelo GitFlow no que toca a gestão de branches; !! FEITO !!
2. Ter pelo menos dois níveis de acesso ao GitHub, permitindo a developers a submissão de código, mas nunca a alteração de visibilidade do repositório (esta permissão deve ser dada apenas a proprietários do repositório);
3. Tornar obrigatória a revisão de código antes de um pull request ser aprovado; !! FEITO !!
4. Adicionar ficheiro .gitignore de forma a ignorar ficheiros .docx e .doc; !! FEITO !!
5. Controlar as versões do relatório a entregar usando o repositório, sendo que é necessário que existam pelo menos:

The right sidebar shows repository statistics: 0 stars, 1 watching, 0 forks. It also lists sections: About (Projeto Final DAS), Releases (No releases published), Packages (No packages published), Contributors (2: Edmilson07, LuisMartins21), and Languages.

## CRIAÇÃO DO REPOSITÓRIO

O seguinte código foi utilizado para a criação do repositório local:

```
git init
```

```
git add .
```

```
git commit -m "Readme"
```

```
git branch -M main
```

```
git remote add origin https://github.com/LuisMartins21/ProjetoFinal.git
```

```
git push -u origin main
```

## BRANCHES GIT FLOW

```
C:\Users\luissmartinss\Desktop\PF>git flow init -f

Which branch should be used for bringing forth production releases?
- desenvolvimento
- feito
- fixerros
- main
- vfr1.0
Branch name for production releases: [main] main

Which branch should be used for integration of the "next release"?
- desenvolvimento
- feito
- fixerros
- vfr1.0
Branch name for "next release" development: [feito] desenvolvimento

How to name your supporting branch prefixes?
Feature branches? [feature/] fixerros
Bugfix branches? [bugfix/] fixerros
Release branches? [release/] vfr1.0
Hotfix branches? [hotfix/] fixerros
Support branches? [support/]
Version tag prefix? []
Hooks and filters directory? [C:/Users/luissmartinss/Desktop/PF/.git/hooks]
```

Para branch de desenvolvimento de features foi criada uma branch com o nome “ desenvolvimento ”.

Depois da feature estar acabada esta vai para a main.

Quando estiver com as alterações feitas vai para a branch “ vfr1.0 ”.

## DEMONSTRAÇÃO DAS OPERAÇÕES EFETUADAS

### A. Carregamento inicial do ficheiro na branch develop

- Começamos por criar o ficheiro PDF;

```
git add BetaPF1.pdf
```

```
git commit -m "VInicial"
```

```
git push origin desenvolvimento
```

---

 BetaPF1.pdf

"VInicial"

2 days ago

---

## B. Alterações no branch develop com comentários

1ª - V0.2

```
C:\Users\luissmartinss\Desktop\PF>git flow feature start versao0.2
Switched to a new branch 'feature/versao0.2'

Summary of actions:
- A new branch 'feature/versao0.2' was created, based on 'desenvolvimento'
- You are now on branch 'feature/versao0.2'

Now, start committing on your feature. When done, use:

    git flow feature finish versao0.2

C:\Users\luissmartinss\Desktop\PF>git add BetaPF1.pdf

C:\Users\luissmartinss\Desktop\PF>git commit -m "V0.2"
[feature/versao0.2 7e5e0cf] T;V0.2T;
 1 file changed, 0 insertions(+), 0 deletions(-)

C:\Users\luissmartinss\Desktop\PF>git flow feature finish V0.2
Fatal: Branch 'feature/V0.2' does not exist and is required.

C:\Users\luissmartinss\Desktop\PF>git flow feature finish versao0.2
Switched to branch 'desenvolvimento'
Updating edc2bee..7e5e0cf
Fast-forward
 BetaPF1.pdf | Bin 1322433 -> 1742484 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/versao0.2 (was 7e5e0cf).

Summary of actions:
- The feature branch 'feature/versao0.2' was merged into 'desenvolvimento'
- Feature branch 'feature/versao0.2' has been locally deleted
- You are now on branch 'desenvolvimento'

C:\Users\luissmartinss\Desktop\PF>git push origin desenvolvimento
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 389.28 KiB | 6.08 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
   edc2bee..7e5e0cf  desenvolvimento -> desenvolvimento

C:\Users\luissmartinss\Desktop\PF>
```



## Descrição das Modificações Efetuadas

### “V0.2” #8

 Merged LuisMartins21 merged 1 commit into `main` from `desenvolvimento` 17 minutes ago

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1



LuisMartins21 commented 17 minutes ago

Owner ...

1ª versao0.2  
Fix ao Indice;  
Adicionado foto do repositório no GIT Hub  
Adicionado texto à introdução;  
Adicionado 5a.



1

 “V0.2”

7e5e0cf



LuisMartins21 merged commit `0adf794` into `main` 17 minutes ago

Revert



**Pull request successfully merged and closed**

Delete branch

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

## 2ª - V0.3

```
C:\Users\luissmartinss\Desktop\PF>git flow feature start versao0.3
Switched to a new branch 'feature/versao0.3'

Summary of actions:
- A new branch 'feature/versao0.3' was created, based on 'desenvolvimento'
- You are now on branch 'feature/versao0.3'

Now, start committing on your feature. When done, use:

    git flow feature finish versao0.3

C:\Users\luissmartinss\Desktop\PF>git add BetaPF1.pdf

C:\Users\luissmartinss\Desktop\PF>git commit -m "V0.3"
[feature/versao0.3 de0e9a0] TãV0.3Tã
 1 file changed, 0 insertions(+), 0 deletions(-)

C:\Users\luissmartinss\Desktop\PF>git flow feature finish versao0.3
Switched to branch 'desenvolvimento'
Updating 7e5e0cf..de0e9a0
Fast-forward
 BetaPF1.pdf | Bin 1742484 -> 2076230 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/versao0.3 (was de0e9a0).

Summary of actions:
- The feature branch 'feature/versao0.3' was merged into 'desenvolvimento'
- Feature branch 'feature/versao0.3' has been locally deleted
- You are now on branch 'desenvolvimento'

C:\Users\luissmartinss\Desktop\PF>git push origin desenvolvimento
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 313.61 KiB | 4.98 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
 7e5e0cf..de0e9a0  desenvolvimento -> desenvolvimento


C:\Users\luissmartinss\Desktop\PF>
```

## Descrição das Modificações Efetuadas

“V0.3” #9

 Merged LuisMartins21 merged 1 commit into `main` from `desenvolvimento`  now

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1



LuisMartins21 commented now

Owner ...


Adicionado fotos em relação à alteração nº1 ou seja da versão 0.2 com a sua criação e respetiva descrição de alterações.



 “V0.3”

de0e9a0



 LuisMartins21 merged commit `a10dbec` into `main` now

Revert



Pull request successfully merged and closed

Delete branch

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

## 3ª - V0.4

```
C:\Users\luissmartinss\Desktop\PF>git flow feature start versao0.4
Switched to a new branch 'feature/versao0.4'

Summary of actions:
- A new branch 'feature/versao0.4' was created, based on 'desenvolvimento'
- You are now on branch 'feature/versao0.4'

Now, start committing on your feature. When done, use:

    git flow feature finish versao0.4

C:\Users\luissmartinss\Desktop\PF>git add BetaPF1.pdf

C:\Users\luissmartinss\Desktop\PF>git commit -m "V0.4"
[feature/versao0.4 30d5a1b] T2V0.4T2
 1 file changed, 0 insertions(+), 0 deletions(-)

C:\Users\luissmartinss\Desktop\PF>git flow finish feature versao0.4
Fatal: Branch 'feature/feature' does not exist and is required.

C:\Users\luissmartinss\Desktop\PF>git flow feature finish versao0.4
Switched to branch 'desenvolvimento'
Updating de0e9a0..30d5a1b
Fast-forward
 BetaPF1.pdf | Bin 2076230 -> 2364528 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/versao0.4 (was 30d5a1b).


Summary of actions:
- The feature branch 'feature/versao0.4' was merged into 'desenvolvimento'
- Feature branch 'feature/versao0.4' has been locally deleted
- You are now on branch 'desenvolvimento'

C:\Users\luissmartinss\Desktop\PF>git push origin desenvolvimento
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 256.93 KiB | 3.95 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
 de0e9a0..30d5a1b  desenvolvimento -> desenvolvimento
```

## Descrição das Modificações Efetuadas

“V0.4” #10

Merged

LuisMartins21 merged 1 commit into `main` from `desenvolvimento`  now



Conversation 0



Commits 1



Checks 0



Files changed 1



LuisMartins21 commented 2 minutes ago

Owner

...

Adicionado as alterações feitas na v0.3 com a sua criação e descrição;  
Alteração formatação da data.



“V0.4”

30d5a1b



LuisMartins21 merged commit **5929458** into `main` now

Revert



Pull request successfully merged and closed

Delete branch

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

## 4ª - V0.5

```
C:\Users\luissmartinss\Desktop\PF>git flow feature start versao0.5
Switched to a new branch 'feature/versao0.5'

Summary of actions:
- A new branch 'feature/versao0.5' was created, based on 'desenvolvimento'
- You are now on branch 'feature/versao0.5'

Now, start committing on your feature. When done, use:

    git flow feature finish versao0.5

C:\Users\luissmartinss\Desktop\PF>git add BetaPF1.pdf

C:\Users\luissmartinss\Desktop\PF>git commit -m "V0.5"
[feature/versao0.5 ca61921] T;V0.5T;
 1 file changed, 0 insertions(+), 0 deletions(-)

C:\Users\luissmartinss\Desktop\PF>git feature finish versao0.5
git: 'feature' is not a git command. See 'git --help'.

C:\Users\luissmartinss\Desktop\PF>git flow feature finish versao0.5
Switched to branch 'desenvolvimento'
Updating 30d5a1b..ca61921
Fast-forward
 BetaPF1.pdf | Bin 2364528 -> 2737007 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/versao0.5 (was ca61921).

Summary of actions:
- The feature branch 'feature/versao0.5' was merged into 'desenvolvimento'
- Feature branch 'feature/versao0.5' has been locally deleted
- You are now on branch 'desenvolvimento'

C:\Users\luissmartinss\Desktop\PF>git push origin desenvolvimento
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 348.70 KiB | 4.59 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
 30d5a1b..ca61921  desenvolvimento -> desenvolvimento


C:\Users\luissmartinss\Desktop\PF>
```


## Descrição das Modificações Efetuadas

### “V0.5” #11

 Merged LuisMartins21 merged 1 commit into `main` from `desenvolvimento`  now

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1



LuisMartins21 commented now

Owner ...


Adicionado as alterações feitas na v0.4 com a sua criação e descrição;  
Adicionado a explicação das branches do git flow.



 “V0.5”

ca61921



 LuisMartins21 merged commit `4e34ca2` into `main` now

Revert



Pull request successfully merged and closed

Delete branch

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

## 5ª - V0.6

```
C:\Users\luissmartinss\Desktop\PF>git flow feature start versao0.6
D      BetaPF1.pdf
Switched to a new branch 'feature/versao0.6'

Summary of actions:
- A new branch 'feature/versao0.6' was created, based on 'desenvolvimento'
- You are now on branch 'feature/versao0.6'

Now, start committing on your feature. When done, use:

    git flow feature finish versao0.6

C:\Users\luissmartinss\Desktop\PF>git add BetaPF1.pdf

C:\Users\luissmartinss\Desktop\PF>git commit -m "V0.6"
[feature/versao0.6 d1217d3] T:V0.6T:
 1 file changed, 0 insertions(+), 0 deletions(-)

C:\Users\luissmartinss\Desktop\PF>git flow feature finish versao0.6
Switched to branch 'desenvolvimento'
Updating ca61921..d1217d3
Fast-forward
 BetaPF1.pdf | Bin 2737007 -> 3039468 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/versao0.6 (was d1217d3).

Summary of actions:
- The feature branch 'feature/versao0.6' was merged into 'desenvolvimento'
- Feature branch 'feature/versao0.6' has been locally deleted
- You are now on branch 'desenvolvimento'

C:\Users\luissmartinss\Desktop\PF>git push origin desenvolvimento
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 269.27 KiB | 3.32 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
   ca61921..d1217d3  desenvolvimento -> desenvolvimento

C:\Users\luissmartinss\Desktop\PF>
```




## Descrição das Modificações Efetuadas

### “V0.6” #12

 Merged LuisMartins21 merged 1 commit into `main` from `desenvolvimento`  now

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1



LuisMartins21 commented now

Owner ...


Adicionado as alterações feitas na v0.5 com a sua criação e descrição;  
Fix Indice.



 “V0.6”

d1217d3



 LuisMartins21 merged commit `99dc85e` into `main` now

Revert



Pull request successfully merged and closed

Delete branch

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

## C. Release para Branch vfr1.0

```
C:\Users\luissmartinss\Desktop\PF>git flow release start 1.0
Branches 'desenvolvimento' and 'origin/desenvolvimento' have diverged.
And local branch 'desenvolvimento' is ahead of 'origin/desenvolvimento'.
Switched to a new branch 'release/1.0'

Summary of actions:
- A new branch 'release/1.0' was created, based on 'desenvolvimento'
- You are now on branch 'release/1.0'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.0'

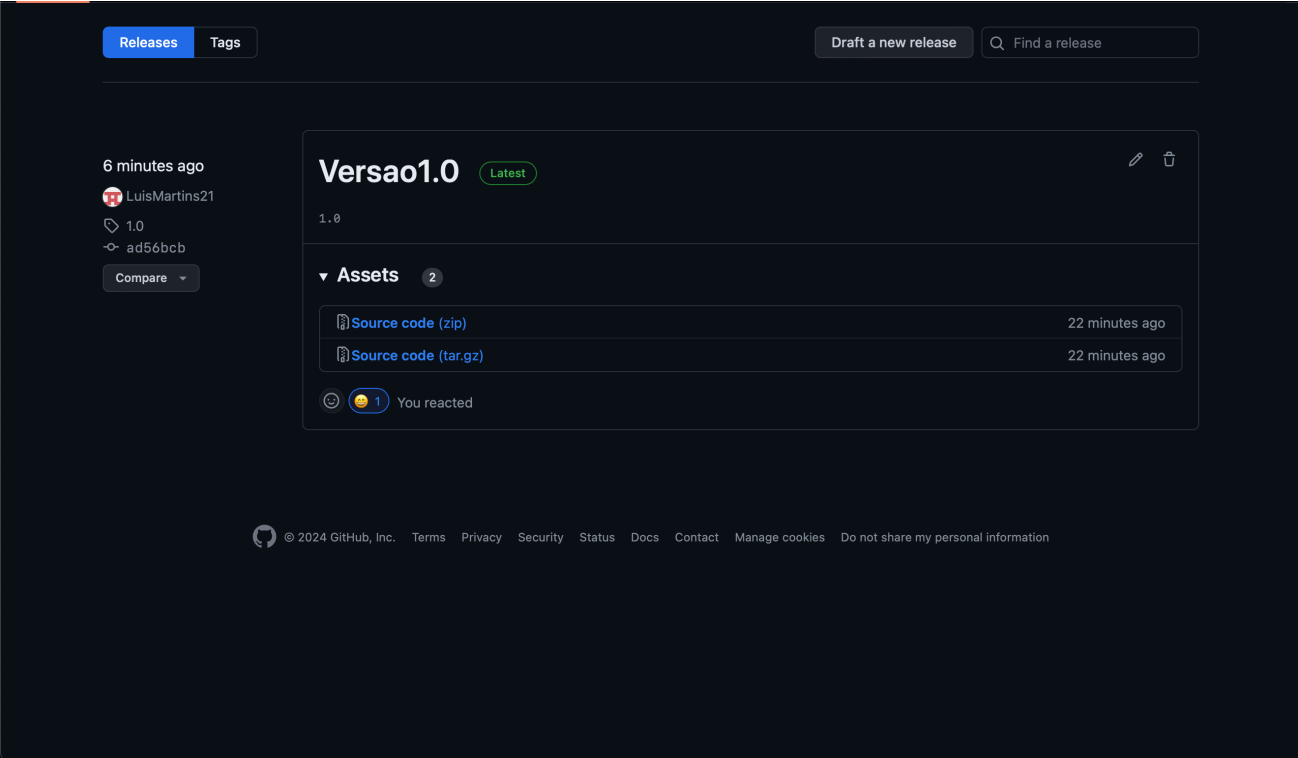
C:\Users\luissmartinss\Desktop\PF>git flow release finish 1.0
Branches 'vfr1.0' and 'origin/vfr1.0' have diverged.
And local branch 'vfr1.0' is ahead of 'origin/vfr1.0'.
Branches 'desenvolvimento' and 'origin/desenvolvimento' have diverged.
And local branch 'desenvolvimento' is ahead of 'origin/desenvolvimento'.
Switched to branch 'vfr1.0'
Merge made by the 'ort' strategy.
 README.txt | 8 ++++----
 1 file changed, 4 insertions(+), 4 deletions(-)
Already on 'vfr1.0'
Switched to branch 'desenvolvimento'
Merge made by the 'ort' strategy.
Deleted branch release/1.0 (was 21e121e).

Summary of actions:
- Release branch 'release/1.0' has been merged into 'vfr1.0'
- The release was tagged '1.0'
- Release tag '1.0' has been back-merged into 'desenvolvimento'
- Release branch 'release/1.0' has been locally deleted
- You are now on branch 'desenvolvimento'

C:\Users\luissmartinss\Desktop\PF>git push origin vfr1.0
Enumerating objects: 34, done.
Counting objects: 100% (30/30), done.
Delta compression using up to 4 threads
Compressing objects: 100% (22/22), done.
Writing objects: 100% (22/22), 4.84 KiB | 991.00 KiB/s, done.
Total 22 (delta 8), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (8/8), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
 2cc1879..ad56bcb  vfr1.0 -> vfr1.0

C:\Users\luissmartinss\Desktop\PF>git push origin desenvolvimento
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 252 bytes | 252.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/LuisMartins21/ProjetoFinal.git
 4fbd4d9..baf0c99  desenvolvimento -> desenvolvimento

C:\Users\luissmartinss\Desktop\PF>git push --tags
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
```



## D. Hotfix

```
C:\Users\luissmartinss\Desktop\PF>git checkout fixerros
Switched to branch 'fixerros'

C:\Users\luissmartinss\Desktop\PF>git push origin vfr1.0
Everything up-to-date

C:\Users\luissmartinss\Desktop\PF>git pull origin vfr1.0
From https://github.com/LuisMartins21/ProjetoFinal
 * branch                vfr1.0      -> FETCH_HEAD
Auto-merging README.txt
Merge made by the 'ort' strategy.
 Alpha1.0.pdf | Bin 0 -> 3324404 bytes
 README.txt   |    2 +-
 2 files changed, 1 insertion(+), 1 deletion(-)
 create mode 100644 Alpha1.0.pdf

C:\Users\luissmartinss\Desktop\PF>git push origin fixerros
Enumerating objects: 12, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (6/6), done.
Writing objects: 100% (6/6), 949 bytes | 474.00 KiB/s, done.
Total 6 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/LuisMartins21/ProjetoFinal.git
 d29ded2..a0d6a11  fixerros -> fixerros

C:\Users\luissmartinss\Desktop\PF>git flow hotfix start
```

Depois do pular fazemos:

```
git flow hotfix start hotfix1
```

Aqui fazemos as alterações necessárias

```
git add Alpha1.0
```

```
git commit -m " v1.0.1"
```

```
git flow hotfix finish hotfix1
```

```
git push origin vfr1.0
```