

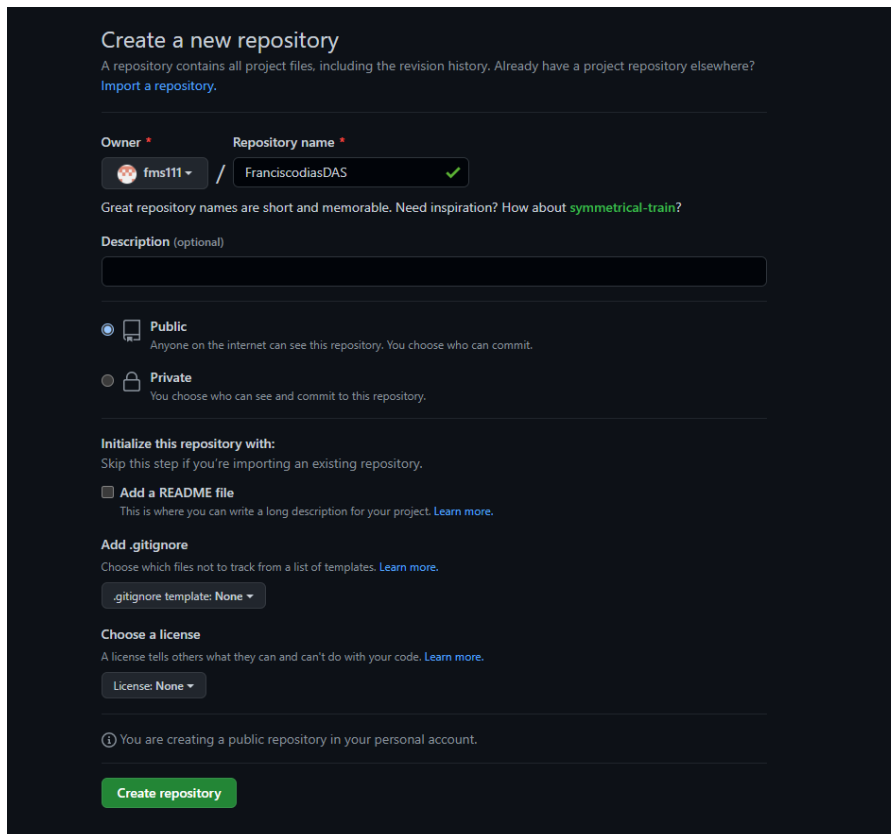
## Relatório Trabalho Final DAS - Francisco Dias 2022095

### 1. Criar o Repositório no GitHub e as branches do mesmo

Create a new repository


A repository contains all project files, including the revision history. Already have a project repository elsewhere?  
[Import a repository.](#)


Owner <sup>\*</sup> Repository name <sup>\*</sup>

 fms111 / FranciscodiasDAS ✓

Great repository names are short and memorable. Need inspiration? How about [symmetrical-train](#)?

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:

Skip this step if you're importing an existing repository.

☐ **Add a README file**  
This is where you can write a long description for your project. [Learn more.](#)

**Add .gitignore**  
Choose which files not to track from a list of templates. [Learn more.](#)

.gitignore template: **None**

**Choose a license**  
A license tells others what they can and can't do with your code. [Learn more.](#)

License: **None**

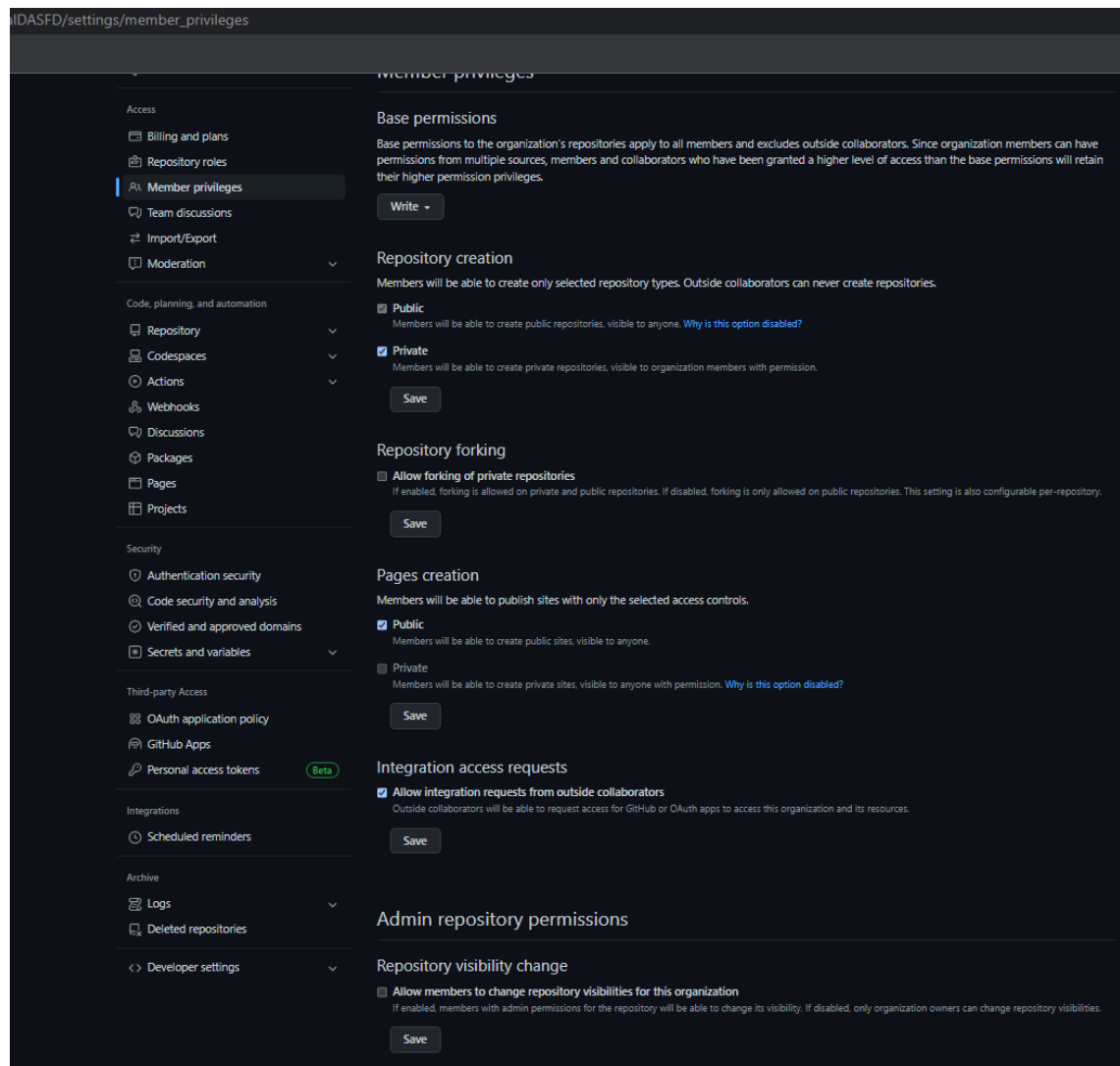
ⓘ You are creating a public repository in your personal account.

**Create repository**

```
$ git flow init
No branches exist yet. Base branches must be created now.
Branch name for production releases: [master]
Branch name for "next release" development: [develop]

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

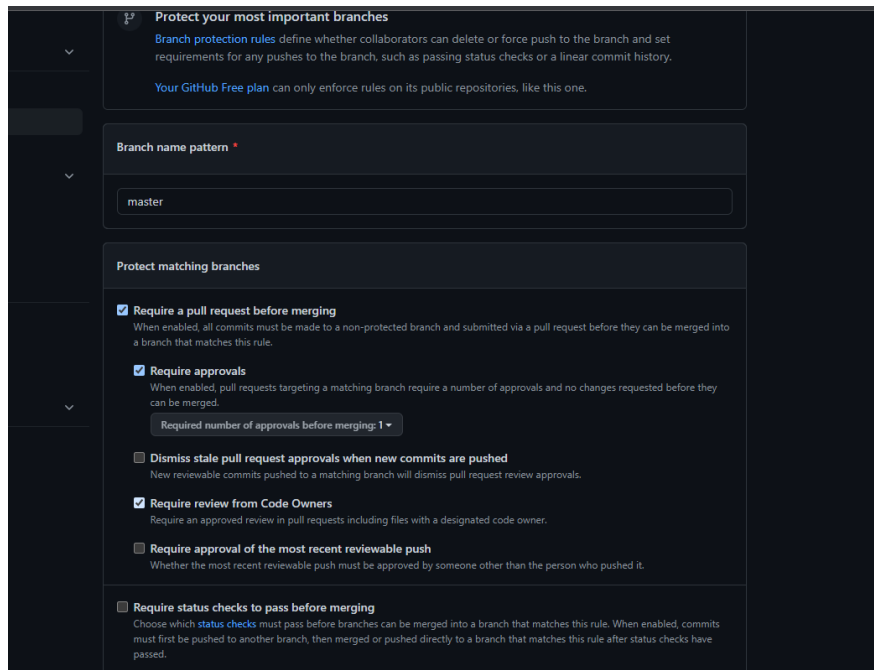
## 2. Criei uma organização no GitHub e coloquei as regras em ordem



Altereí a permissão para Write

Desativei a Repository Visibility Change

### 3. Tornei obrigatória a revisão do código antes de ser aprovado um Pull Request



**Protect your most important branches**  
Branch protection rules define whether collaborators can delete or force push to the branch and set requirements for any pushes to the branch, such as passing status checks or a linear commit history.  
Your GitHub Free plan can only enforce rules on its public repositories, like this one.

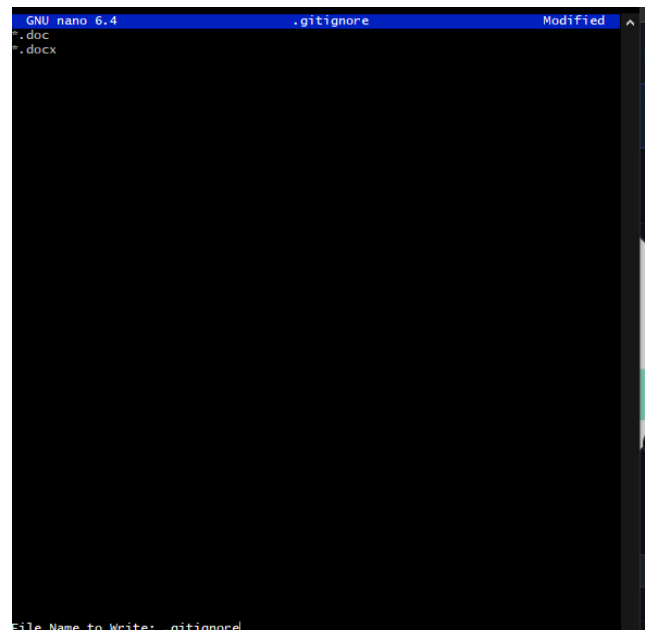
Branch name pattern \*

master

Protect matching branches

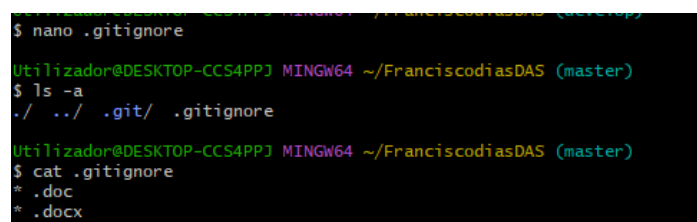
- ☒ **Require a pull request before merging**  
When enabled, all commits must be made to a non-protected branch and submitted via a pull request before they can be merged into a branch that matches this rule.
- ☒ **Require approvals**  
When enabled, pull requests targeting a matching branch require a number of approvals and no changes requested before they can be merged.  
Required number of approvals before merging: 1
- ☐ **Dismiss stale pull request approvals when new commits are pushed**  
New reviewable commits pushed to a matching branch will dismiss pull request review approvals.
- ☒ **Require review from Code Owners**  
Require an approved review in pull requests including files with a designated code owner.
- ☐ **Require approval of the most recent reviewable push**  
Whether the most recent reviewable push must be approved by someone other than the person who pushed it.
- ☐ **Require status checks to pass before merging**  
Choose which status checks must pass before branches can be merged into a branch that matches this rule. When enabled, commits must first be pushed to another branch, then merged or pushed directly to a branch that matches this rule after status checks have passed.

### 4. Adicionar um ficheiro .Gitignore para ignorar ficheiros .doc e .docx



```
GNU nano 6.4 .gitignore Modified
*.doc
*.docx

File Name to Write: .gitignore
```



```
$ nano .gitignore
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ ls -la
./ ../.git/ .gitignore
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ cat .gitignore
*.doc
*.docx
```

5. Controlar as versões do relatório a entregar usando o repositório, sendo que é necessário que existam pelo menos:

a) 1 carregamento inicial do ficheiro no branch develop

Comandos para fazer push para o repositório:

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ git status
On branch master
Your branch is up to date with 'origin/master'.

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

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

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ git add .
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ git commit -m "Configuração do gitignore"
[master 86a228d] Configuração do gitignore
1 file changed, 2 insertions(+)
create mode 100644 .gitignore

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ git push origin develop
Everything up-to-date

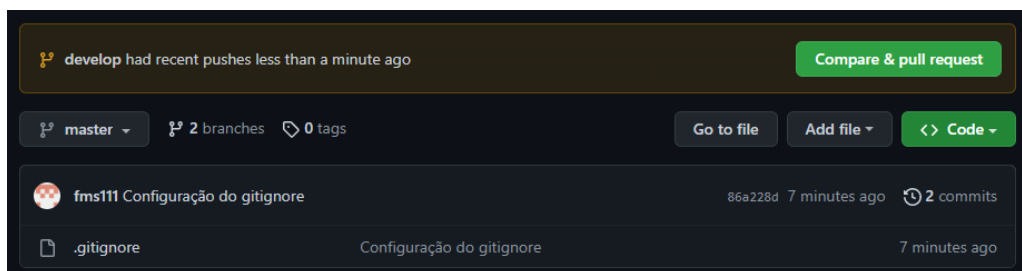
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Writing objects: 100% (3/3), 274 bytes | 274.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/fms111/FranciscodiasDAS.git
257baef..86a228d master -> master
```

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/TrabalhofinalDAS (develop)
$ git add .

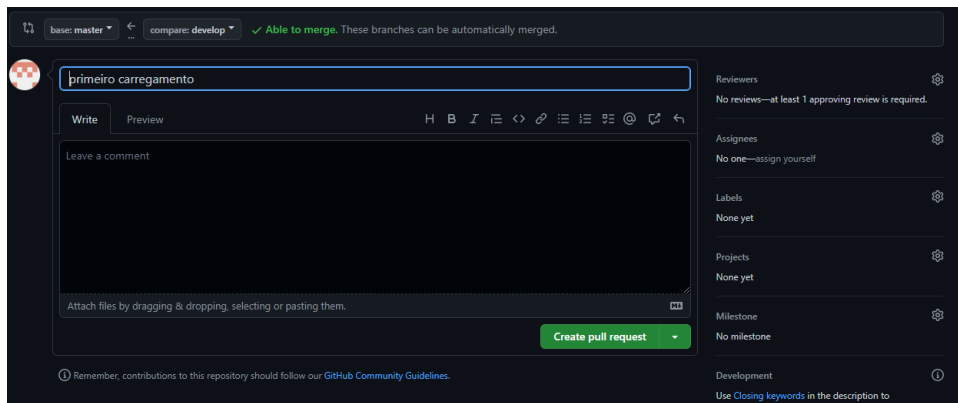
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/TrabalhofinalDAS (develop)
$ git commit -m "Primeiro carregamento"
[develop 0fbd95a] Primeiro carregamento
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Doc1.pdf

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/TrabalhofinalDAS (develop)
$ git push origin develop
```

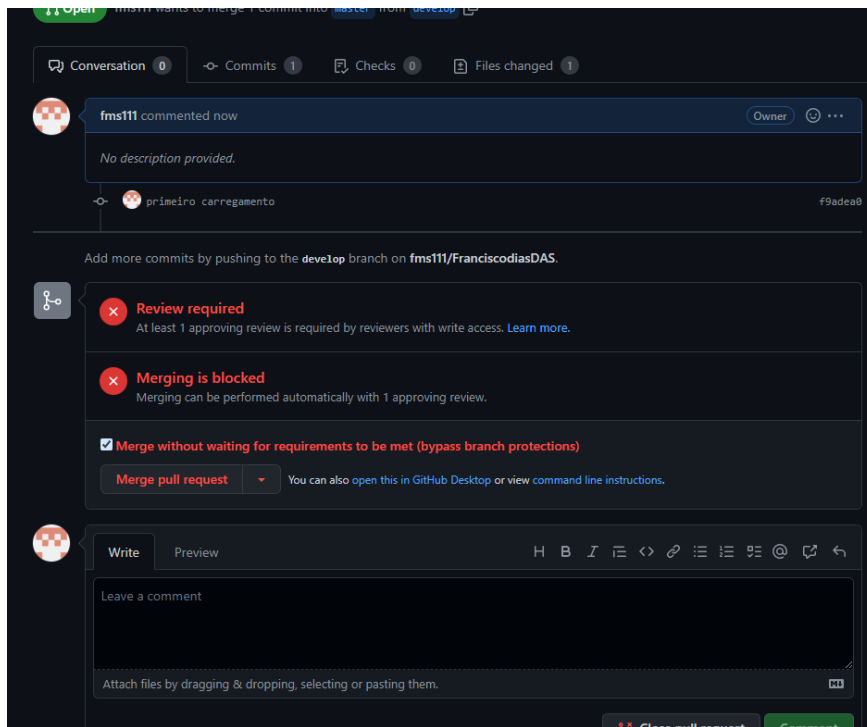
Print do Pull Request



## Criação do pull request



## Review / Aprovação do Pull Request



b) 5 alterações no próprio branch develop com os devidos comentários

## -- Criação e alteração da feature1das --

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git flow feature start feature1das
Switched to a new branch 'feature/feature1das'

Summary of actions:
- A new branch 'feature/feature1das' was created, based on 'develop'
- You are now on branch 'feature/feature1das'

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

    git flow feature finish feature1das

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature1das)
$ git add .

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature1das)
$ git commit -m "relatorio1"
[feature/feature1das 4d39de4] relatorio1
1 file changed, 0 insertions(+), 0 deletions(-)

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature1das)
$ git flow feature finish feature1das
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating f9adea0..4d39de4
Fast-forward
 Doc1.pdf | Bin 25662 -> 409984 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature1das (was 4d39de4).

Summary of actions:
- The feature branch 'feature/feature1das' was merged into 'develop'
- Feature branch 'feature/feature1das' has been locally deleted
- You are now on branch 'develop'

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 370.14 KiB | 16.82 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/fms111/FranciscodiasDAS.git
 f9adea0..4d39de4 develop -> develop
```

## -- Criação e alteração da feature2das --

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git flow feature start feature2das
Switched to a new branch 'feature/feature2das'

Summary of actions:
- A new branch 'feature/feature2das' was created, based on 'develop'
- You are now on branch 'feature/feature2das'

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

    git flow feature finish feature2das

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature2das)
$ git add .

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature2das)
$ git commit -m "relatorio2"
[feature/feature2das ab495c4] relatorio2
1 file changed, 0 insertions(+), 0 deletions(-)

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature2das)
$ git flow feature finish feature2das
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating 4d39de4..ab495c4
Fast-forward
 Doc1.pdf | Bin 409984 -> 444099 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature2das (was ab495c4).

Summary of actions:
- The feature branch 'feature/feature2das' was merged into 'develop'
- Feature branch 'feature/feature2das' has been locally deleted
- You are now on branch 'develop'

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 34.66 KiB | 3.47 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/fms111/FranciscodiasDAS.git
 4d39de4..ab495c4 develop -> develop
```

## -- Criação e alteração da feature3das --

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git flow feature start feature3das
Switched to a new branch 'feature/feature3das'
M Doc1.pdf

Summary of actions:
- A new branch 'feature/feature3das' was created, based on 'develop'
- You are now on branch 'feature/feature3das'

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

    git flow feature finish feature3das

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature3das)
$ git add .

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature3das)
$ git commit -m "relatorio3"
[feature/feature3das cbd951] relatorio3
1 file changed, 0 insertions(+), 0 deletions(-)

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature3das)
$ git flow feature finish feature3das
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating ab495c4..cbd951
Fast-forward
 Doc1.pdf | Bin 444099 -> 477333 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature3das (was cbd951).

Summary of actions:
- The feature branch 'feature/feature3das' was merged into 'develop'
- Feature branch 'feature/feature3das' has been locally deleted
- You are now on branch 'develop'

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 36.42 KiB | 3.31 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/fms111/FranciscodiasDAS.git
 ab495c4..cbd951 develop -> develop
```

## -- Criação e alteração da feature4das --

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git flow feature start feature4das
Switched to a new branch 'feature/feature4das'

Summary of actions:
- A new branch 'feature/feature4das' was created, based on 'develop'
- You are now on branch 'feature/feature4das'

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

    git flow feature finish feature4das

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature4das)
$ git add .

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature4das)
$ git commit -m "relatorio4"
[feature/feature4das 2417e23] relatorio4
1 file changed, 0 insertions(+), 0 deletions(-)

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature4das)
$ git flow feature finish feature4das
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating 3e918a7..2417e23
Fast-forward
 Doc1.pdf | Bin 477333 -> 512619 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature4das (was 2417e23).

Summary of actions:
- The feature branch 'feature/feature4das' was merged into 'develop'
- Feature branch 'feature/feature4das' has been locally deleted
- You are now on branch 'develop'

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 37.32 KiB | 4.66 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/fms111/FranciscodiasDAS.git
 3e918a7..2417e23 develop -> develop
```

## -- Criação e alteração da feature5das--

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git flow feature start feature5das
Switched to a new branch 'feature/feature5das'

Summary of actions:
- A new branch 'feature/feature5das' was created, based on 'develop'
- You are now on branch 'feature/feature5das'

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

    git flow feature finish feature5das

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature5das)
$ git add .

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature5das)
$ git commit -m "relatorio5"
[feature/feature5das d6bec03] relatorio5
1 file changed, 0 insertions(+), 0 deletions(-)

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (feature/feature5das)
$ git flow feature finish feature5das
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating 2417e23..d6bec03
Fast-forward
 Doc1.pdf | Bin 512619 -> 546396 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature5das (was d6bec03).

Summary of actions:
- The feature branch 'feature/feature5das' was merged into 'develop'
- Feature branch 'feature/feature5das' has been locally deleted
- You are now on branch 'develop'

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 8 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 36.05 KiB | 4.00 MiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/fms111/FranciscodiasDAS.git
 2417e23..d6bec03  develop -> develop
```

## -- Criação da release para a branch master --

```
Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (master)
$ git flow release start releasedas
Switched to a new branch 'release/releasedas'

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

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

    git flow release finish 'releasedas'

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (release/releasedas)
$ git add .

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (release/releasedas)
$ git commit -m "releasedas"
[release/releasedas 4dbe7f2] releasedas
1 file changed, 0 insertions(+), 0 deletions(-)

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (release/releasedas)
$ git flow release finish releasedas
Branches 'master' and 'origin/master' have diverged.
Fatal: And branch 'master' may be fast-forwarded.

Utilizador@DESKTOP-CCS4PPJ MINGW64 ~/FranciscodiasDAS (release/releasedas)
$ git push origin master
```