

Relatório
Trabalho Final DAS



Trabalho Feito Por: Pedro Martins
Curso: Desenvolvimento Software
Professor: André Carvalhas

1) Primeiro passo foi criar um repositório no github.com e criar as branches (develop, master)

Create a new repository

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

Owner *

PedroMartins23 ▾

Repository name *

TrabalhoDAS ✓

Great repository names are short. TrabalhoDAS is available. Inspiration? How about **probable-disco**?

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

Comandos Para Criar as Branches:

```
git flow init
git branch develop
git checkout develop
git branch master
git checkout master
```

```
1 Pedro.Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
2 git flow init
3 Pedro.Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
4 git branch develop
5 Pedro.Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
6 git checkout develop
7 Pedro.Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
8 git branch master
9 Pedro.Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
10 git checkout master
```

2) Segundo passo é criar uma Organização no github.com e colocar as regras de ordem correta.

Base permissions

Base permissions to the organization's repositories apply to all members and excludes outside collaborators. Since organization members can have permissions from multiple sources, members and collaborators who have been granted a higher level of access than the base permissions will retain their higher permission privileges.

Write -

Repository creation

Members will be able to create only selected repository types. Outside collaborators can never create repositories.

☐ Public

Members will be able to create public repositories, visible to anyone. [Why is this option disabled?](#)

☒ Private

Members will be able to create private repositories, visible to organization members with permission.

Save

Repository forking

☐ Allow forking of private repositories

If enabled, forking is allowed on private and public repositories. If disabled, forking is only allowed on public repositories. This setting is also configurable per-repository.

Save

Pages creation

Members will be able to publish sites with only the selected access controls.

☒ Public

Members will be able to create public sites, visible to anyone.

☐ Private

Members will be able to create private sites, visible to anyone with permission. [Why is this option disabled?](#)

Save

Integration access requests

☒ Allow integration requests from outside collaborators

Outside collaborators will be able to request access for GitHub or OAuth apps to access this organization and its resources.

Save

Admin repository permissions

Repository visibility change

☐ Allow members to change repository visibilities for this organization

If enabled, members with admin permissions for the repository will be able to change its visibility. If disabled, only organization owners can change repository visibilities.

Save

Permission coloquei **Write**

Repository Visibility Change – **Desativei**

3) Tornar obrigatório a revisão de código antes de um Pull Request ser aprovado

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 ▼

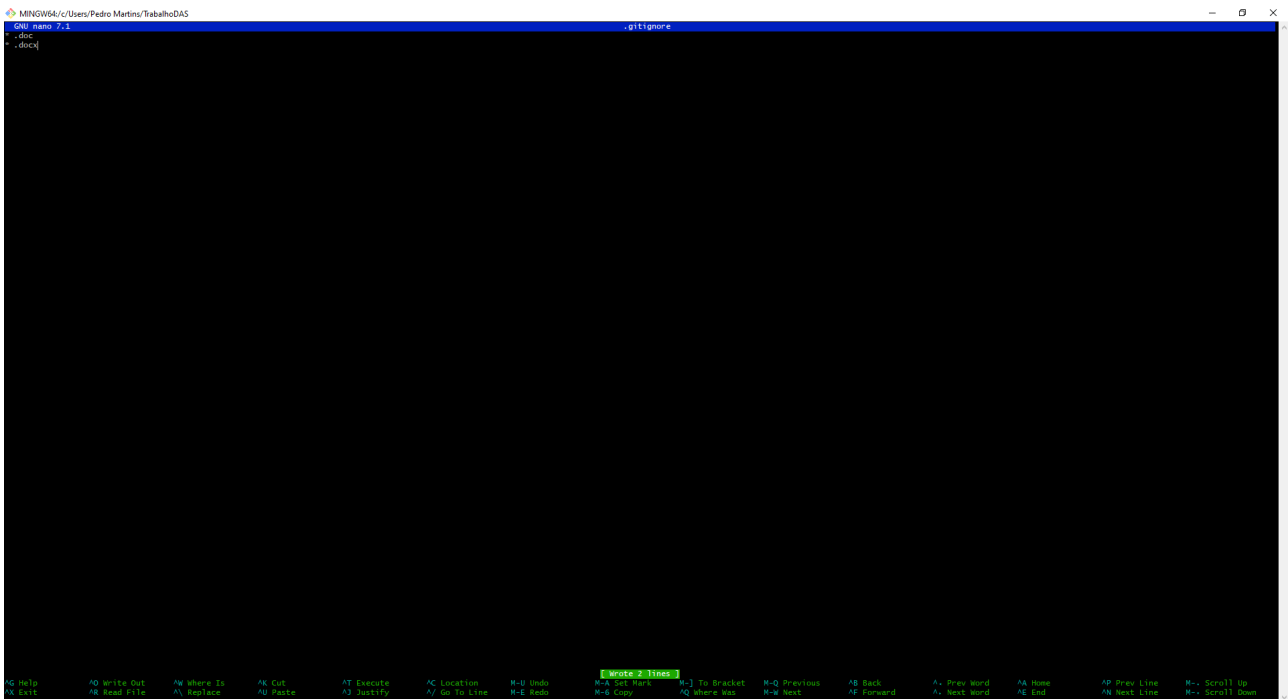
☐ **Dismiss stale pull request approvals when new commits are pushed**

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.

4) Adicionar um ficheiro .gitignore de maneira a ignorar ficheiros, .doc, .docx



```
.gitignore
*.doc
*.docx
```

The screenshot shows a nano editor window titled ".gitignore" with the following content:

```
.gitignore
*.doc
*.docx
```

The bottom of the window shows a terminal window with the following commands and output:

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ nano .gitignore

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ ls -a
./ ../ .git/ .gitignore
```

Esta screenshot mostra os comandos para fazer um push para o repositório

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ cat .gitignore
* .doc
* .docx

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (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)

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
    add

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ git add .
warning: in the working copy of '.gitignore', LF will be replaced by CRLF the next time Git touches it

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ git commit -m "configuracao do gitignore"
[master d6f2529] configuracao do gitignore
1 file changed, 2 insertions(+)
create mode 100644 .gitignore

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (master)
$ git push origin master
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Writing objects: 100% (3/3), 277 bytes | 277.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: This repository moved. Please use the new location:
remote:  https://github.com/PedroTrabalhoFinalDAS/TrabalhoDAS.git
To https://github.com/PedroMartins23/TrabalhoDAS.git
aa24a00..d6f2529  master -> master
```

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

1 Passo) 1 carregamento inicial do ficheiro no branch develop;

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git add .

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git commit -m "carregamento inicial"
[develop 4b1b208] carregamento inicial
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 ficheiro1.pdf

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git push origin develop
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 21.60 KiB | 10.80 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote: This repository moved. Please use the new location:
remote:  https://github.com/PedroTrabalhoFinalDAS/TrabalhoDAS.git
To https://github.com/PedroMartins23/TrabalhoDAS.git
aa24a00..4b1b208  develop -> develop

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
```

Nesta screenshot mostra que foi criado um Pull Request



Agora é criar o pull request

Open a pull request


Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: master

←

compare: develop

✓ Able to merge. These branches can be automatically merged.



carregamento inicial

Write

Preview

H B I ≡ <> 🔗 ≡ ≡ ≡ @ 📎 ↶

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

📎

Create pull request

▼

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Aprovação do Pull Requesta

carregamento inicial

4b1b208

Add more commits by pushing to the **develop** branch on **PedroTrabalhoFinalDAS/TrabalhoDAS**.

🔗

✖ Review required

At least 1 approving review is required by reviewers with write access. [Learn more](#).

✖ Merging is blocked

Merging can be performed automatically with 1 approving review.

☒ Merge without waiting for requirements to be met (bypass branch protections)

Merge pull request

▼

You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Assignees

No one—assign yourself

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request will create no merge conflicts.

None yet

Notifications

carregamento inicial

Write


Preview

H B I ≡ <> 🔗 ≡ ≡ ≡ @ 📎 ↶

Leave a comment

Confirmar a aprovação

Add more commits by pushing to the develop branch on PedroTrabalhoFinalDAS/TrabalhoDAS.




Merge pull request #1 from PedroTrabalhoFinalDAS/develop

carregamento inicial

This commit will be authored by 123576978+PedroMartins23@users.noreply.github.com

Confirm merge

Cancel



Write

Preview

H B I ≡ <> 🔗 ≡ ≡ ≡ @ ↗ ↶

No one

Labels

None y

Project

None y

Milesto

No mile

Develop

2) 5 Alterações na própria branch develop com os respectivos comentários

Criação e alteração da primeira feature do relatório

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git flow feature start feature_relatoriov1
Switched to a new branch 'feature/feature_relatoriov1'
M      ficheiro1.pdf

Summary of actions:
- A new branch 'feature/feature_relatoriov1' was created, based on 'develop'
- You are now on branch 'feature/feature_relatoriov1'

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

    git flow feature finish feature_relatoriov1

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov1)
$ git add .

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov1)
$ git commit -m "Versao 1 Do Relatorio"
[feature/feature_relatoriov1 d19bf26] Versao 1 Do Relatorio
1 file changed, 0 insertions(+), 0 deletions(-)

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov1)
$ git flow feature finish feature_relatoriov1
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating c75abcb..d19bf26
Fast-forward
 ficheiro1.pdf | Bin 542988 -> 410354 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature_relatoriov1 (was d19bf26).

Summary of actions:
- The feature branch 'feature/feature_relatoriov1' was merged into 'develop'
- Feature branch 'feature/feature_relatoriov1' has been locally deleted
- You are now on branch 'develop'

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 353.23 KiB | 25.23 MiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/PedroTrabalhoFinalDAS/TrabalhoDAS.git
 c75abcb..d19bf26  develop -> develop
```

Criação e alteração da feature_relatorio2

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git flow feature start feature_relatorio2
Switched to a new branch 'feature/feature_relatorio2'

Summary of actions:
- A new branch 'feature/feature_relatorio2' was created, based on 'develop'
- You are now on branch 'feature/feature_relatorio2'

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

    git flow feature finish feature_relatorio2

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatorio2)
$ git add .

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatorio2)
$ git flow feature finish feature_relatorio2
Fatal: Index contains uncommitted changes. Aborting.

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatorio2)
$ git commit -m "Versao 2 Do Relatorio"
[feature/feature_relatorio2 316fd70] Versao 2 Do Relatorio
1 file changed, 0 insertions(+), 0 deletions(-)

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatorio2)
$ git flow feature finish feature_relatorio2
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating d19bf26..316fd70
Fast-forward
 ficheiro1.pdf | Bin 410354 -> 444720 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature_relatorio2 (was 316fd70).

Summary of actions:
- The feature branch 'feature/feature_relatorio2' was merged into 'develop'
- Feature branch 'feature/feature_relatorio2' has been locally deleted
- You are now on branch 'develop'

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 32.63 KiB | 5.44 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/PedroTrabalhoFinalDAS/TrabalhoDAS.git
d19bf26..316fd70 develop -> develop
```


Criação e alteração da feature relatório v3

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git flow feature start feature_relatoriov3
Switched to a new branch 'feature/feature_relatoriov3'

Summary of actions:
- A new branch 'feature/feature_relatoriov3' was created, based on 'develop'
- You are now on branch 'feature/feature_relatoriov3'

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

    git flow feature finish feature_relatoriov3

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov3)
$ git add .

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov3)
$ git commit -m "Versao 3 Do Relatorio"
[feature/feature_relatoriov3 d09dbe6] Versao 3 Do Relatorio
1 file changed, 0 insertions(+), 0 deletions(-)

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov3)
$ git flow feature finish feature_relatoriov3
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating 316fd70..d09dbe6
Fast-forward
 ficheiro1.pdf | Bin 444720 -> 484805 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature_relatoriov3 (was d09dbe6).

Summary of actions:
- The feature branch 'feature/feature_relatoriov3' was merged into 'develop'
- Feature branch 'feature/feature_relatoriov3' has been locally deleted
- You are now on branch 'develop'

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 47.03 KiB | 6.72 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/PedroTrabalhoFinalDAS/TrabalhoDAS.git
 316fd70..d09dbe6 develop -> develop

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ |
```

Criação e alteração da feature relatório v4

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git flow feature start feature_relatoriov4
Switched to a new branch 'feature/feature_relatoriov4'

Summary of actions:
- A new branch 'feature/feature_relatoriov4' was created, based on 'develop'
- You are now on branch 'feature/feature_relatoriov4'

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

    git flow feature finish feature_relatoriov4

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov4)
$ git add .

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov4)
$ git commit -m "Versao 4 Do Relatorio"
[feature/feature_relatoriov4 d35e287] Versao 4 Do Relatorio
1 file changed, 0 insertions(+), 0 deletions(-)

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov4)
$ git flow feature finish feature_relatoriov4
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating d09dbe6..d35e287
Fast-forward
 ficheiro1.pdf | Bin 484805 -> 522586 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature_relatoriov4 (was d35e287).

Summary of actions:
- The feature branch 'feature/feature_relatoriov4' was merged into 'develop'
- Feature branch 'feature/feature_relatoriov4' has been locally deleted
- You are now on branch 'develop'

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 33.98 KiB | 5.66 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/PedroTrabalhoFinalDAS/TrabalhoDAS.git
 d09dbe6..d35e287 develop -> develop
```

Criação e alteração da feature v5

```
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git flow feature start feature_relatoriov5
Switched to a new branch 'feature/feature_relatoriov5'

Summary of actions:
- A new branch 'feature/feature_relatoriov5' was created, based on 'develop'
- You are now on branch 'feature/feature_relatoriov5'

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

    git flow feature finish feature_relatoriov5

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov5)
$ git add .

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov5)
$ git commit -m "Versao 5 Do Relatorio"
[feature/feature_relatoriov5 463dde8] Versao 5 Do Relatorio
1 file changed, 0 insertions(+), 0 deletions(-)

Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (feature/feature_relatoriov5)
$ git flow feature finish feature_relatoriov5
Switched to branch 'develop'
Your branch is up to date with 'origin/develop'.
Updating d35e287..463dde8
Fast-forward
 ficheiro1.pdf | Bin 522586 -> 558558 bytes
1 file changed, 0 insertions(+), 0 deletions(-)
Deleted branch feature/feature_relatoriov5 (was 463dde8).
g
Summary of actions:
- The feature branch 'feature/feature_relatoriov5' was merged into 'develop'
- Feature branch 'feature/feature_relatoriov5' has been locally deleted
- You are now on branch 'develop'

i
Pedro Martins@DESKTOP-TAMFD97 MINGW64 ~/TrabalhoDAS (develop)
$ git push origin develop
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 12 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 30.91 KiB | 5.15 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/PedroTrabalhoFinalDAS/TrabalhoDAS.git
 d35e287..463dde8 develop -> develop
```

C) Criação da release que contribua para o branch master;