Instituto Superior de Tecnologias Avançadas do Porto
CTESP DS - Curso Técnico Superior Profissional de Desenvolvimento de Software

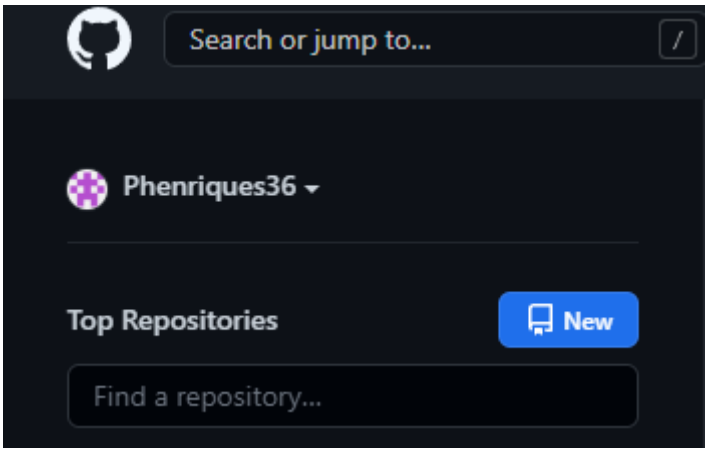
Ano letivo 2022/2023
DAS - Desenvolvimento Ágil de Software

Trabalho Prático Individual Final - DAS

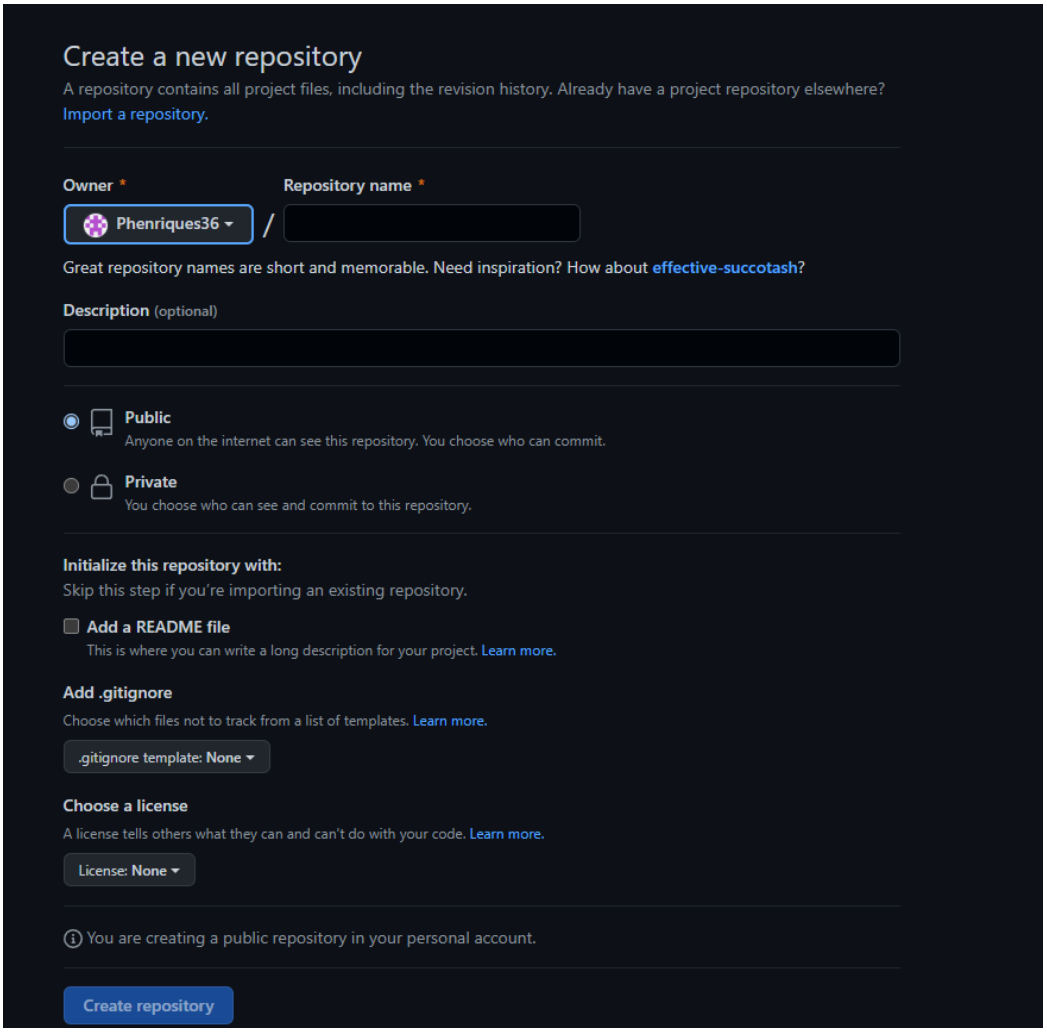
Paulo Henriques

Ponto 1

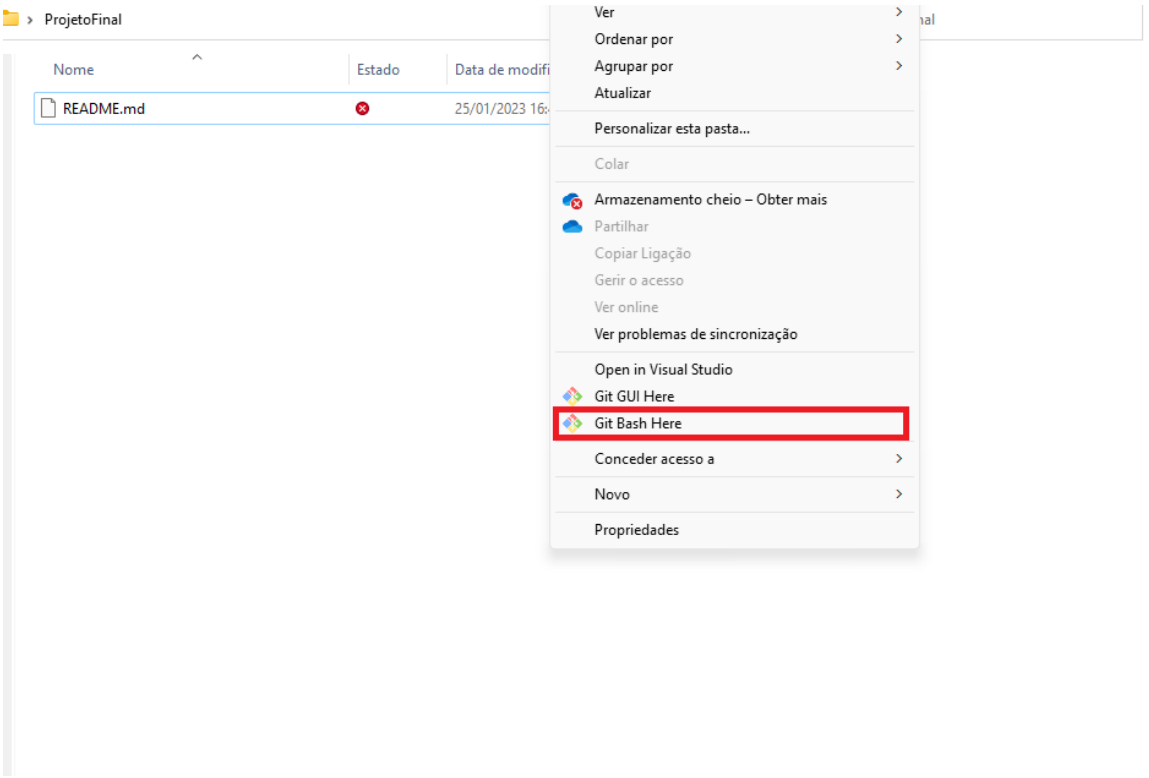
Primeiramente temos de criar um repositório no GitHub para isso depois de entrarmos com a nossa conta no GitHub devemos selecionar a opção New



Depois vai aparecer este ecrã onde devemos preencher com as informações que queremos



De seguida vamos abrir o git bash na pasta que queremos usar como repositório local da seguinte forma, neste caso vou utilizar uma pasta com o nome ProjetoFinal e selecionar a opção marcada a vermelho

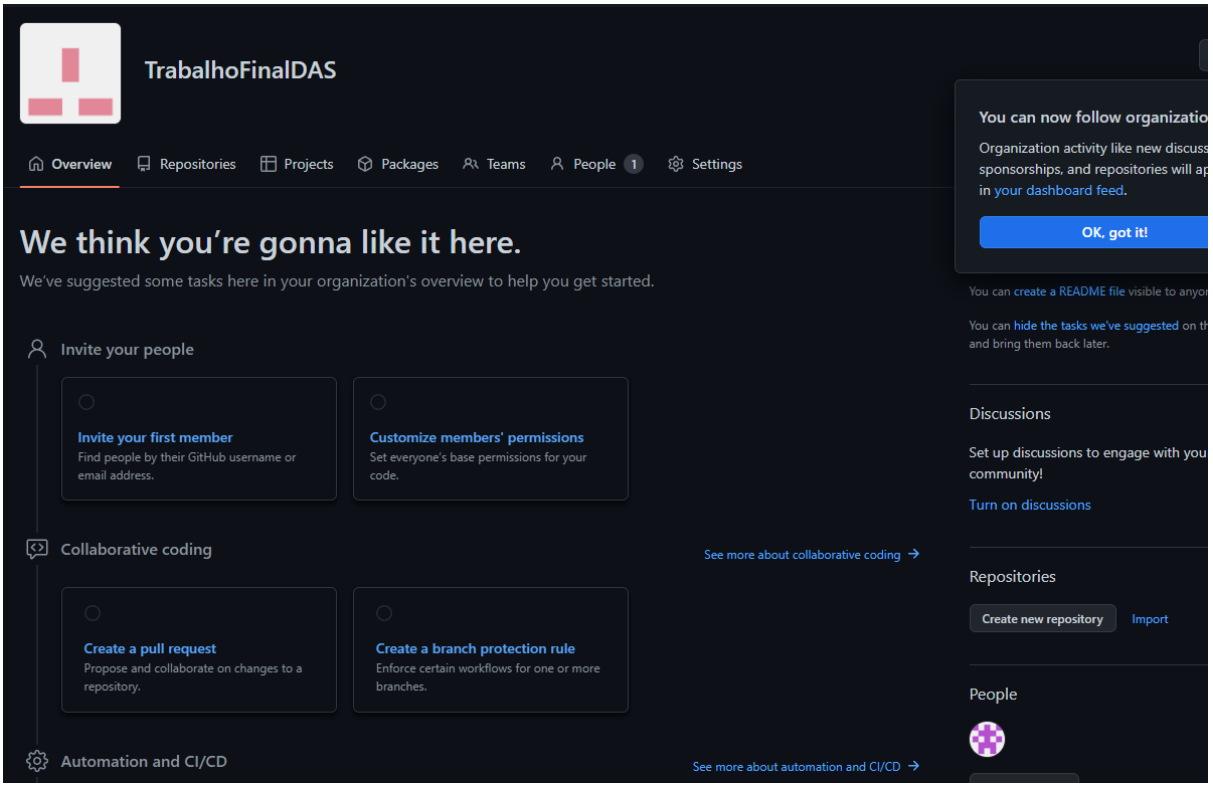


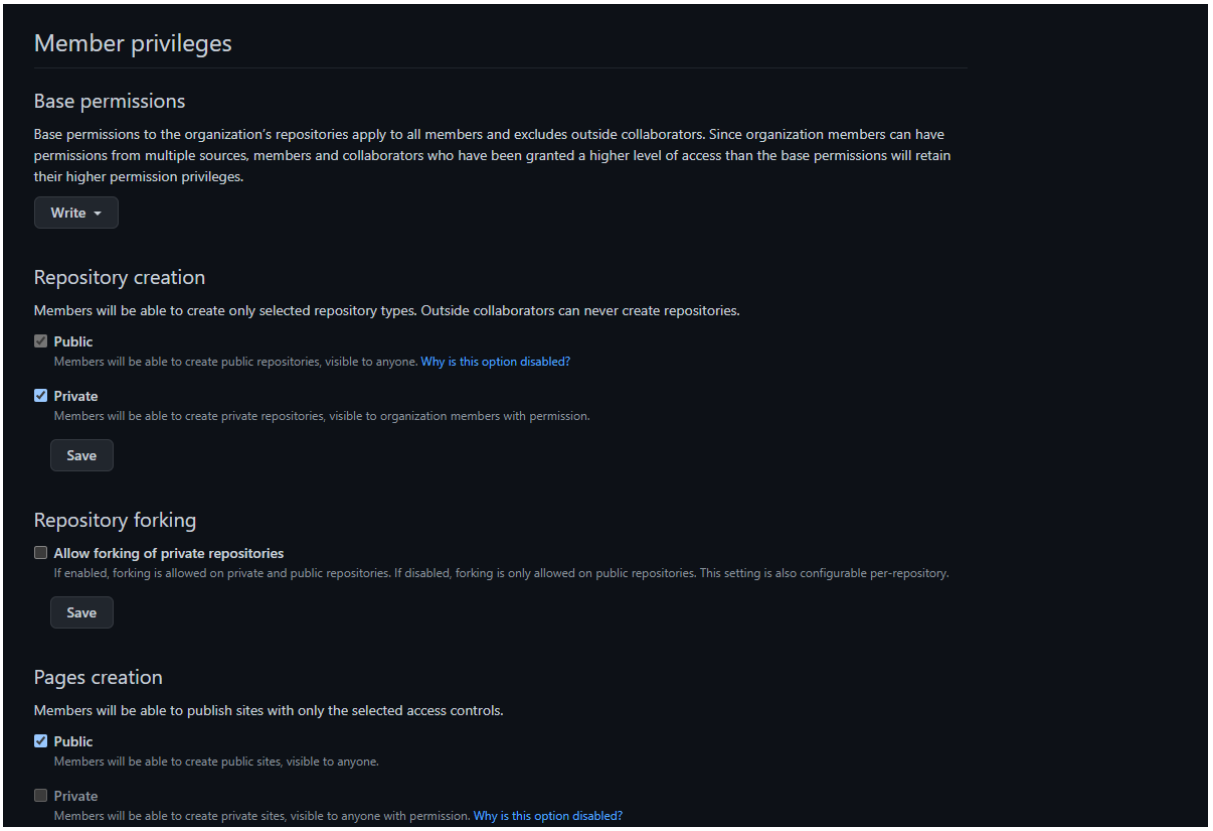
Depois do GIT Bash aberto devemos usar o seguinte código para ligar o repositório local ao GitHub

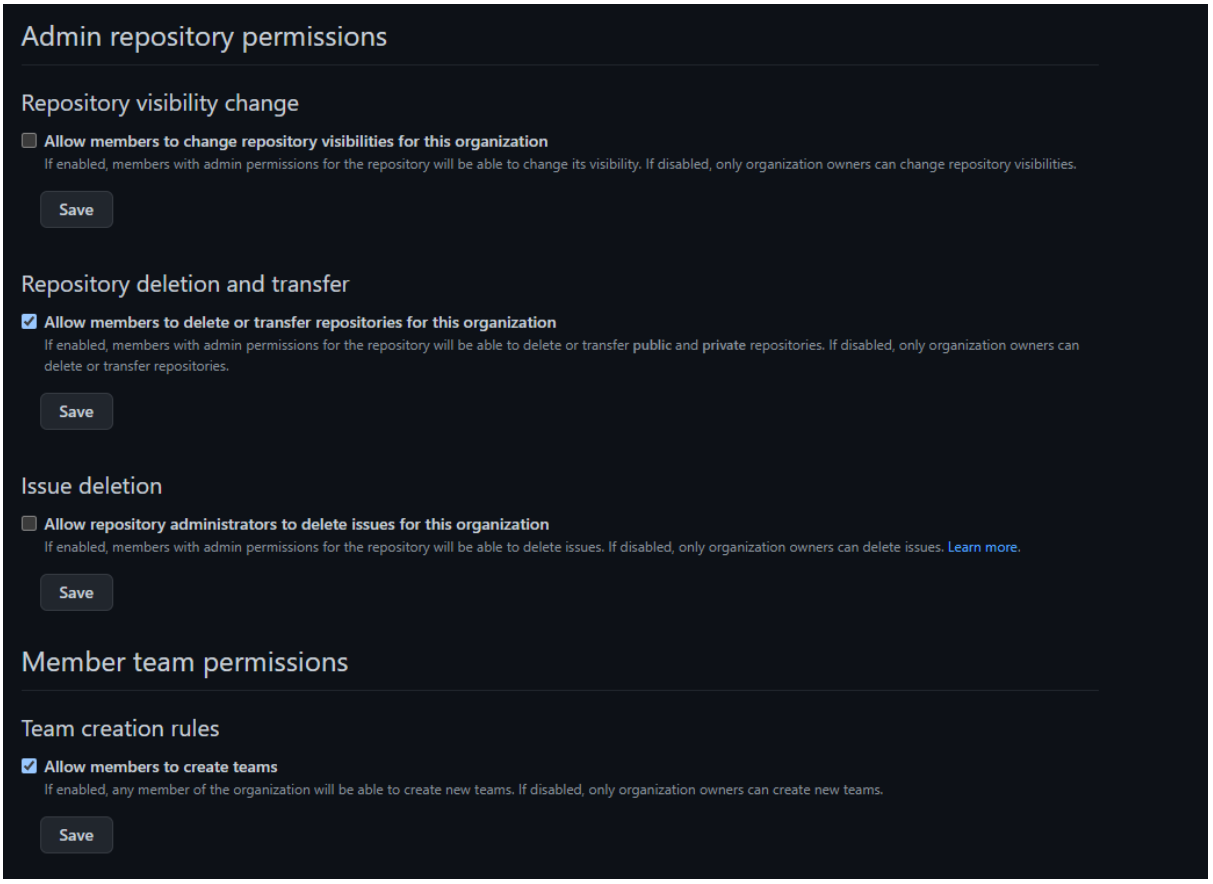
echo "# ProjetoFinal" >> README.md
git init
git add README.md
git commit -m "Add README"
git branch -M main
git remote add origin "https://github.com/Phenriques36/TrabalhoFinalGITDAS.git"(o link aqui é diferente para todos, este é apenas o link do meu repositório)
git push -u origin main
git flow init

Ponto 2

Neste ponto é suposto definir níveis de acesso de uma organização, para isso devemos criar uma organização e definir os seguintes passos

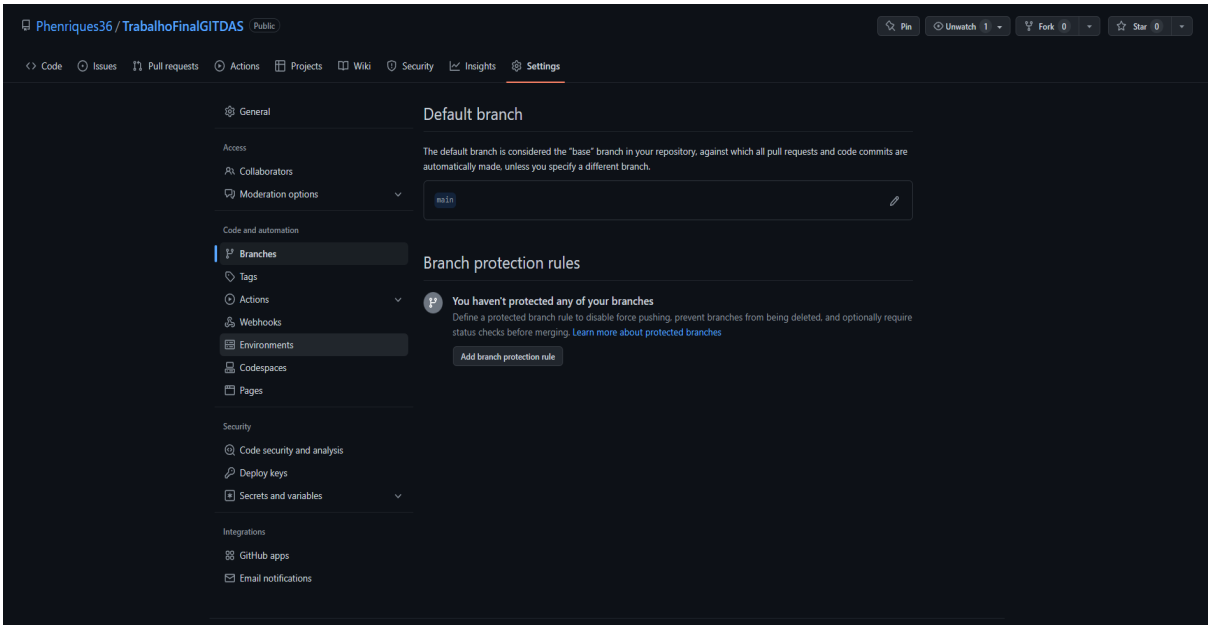


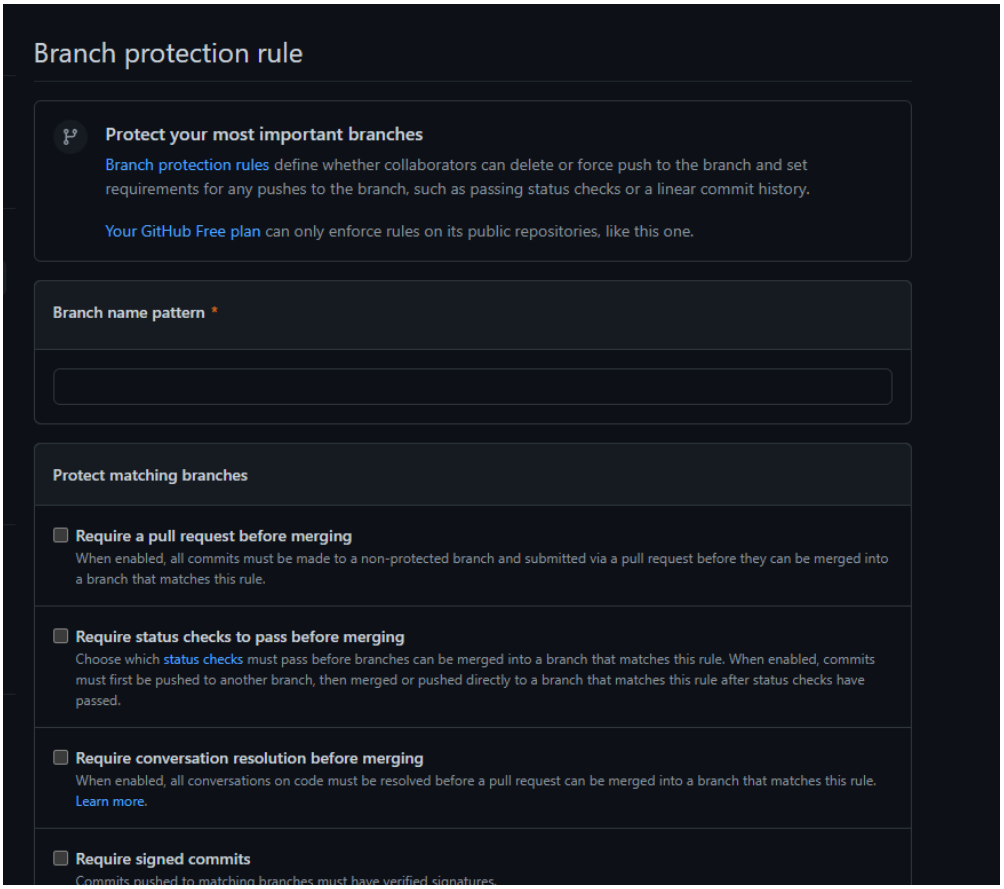


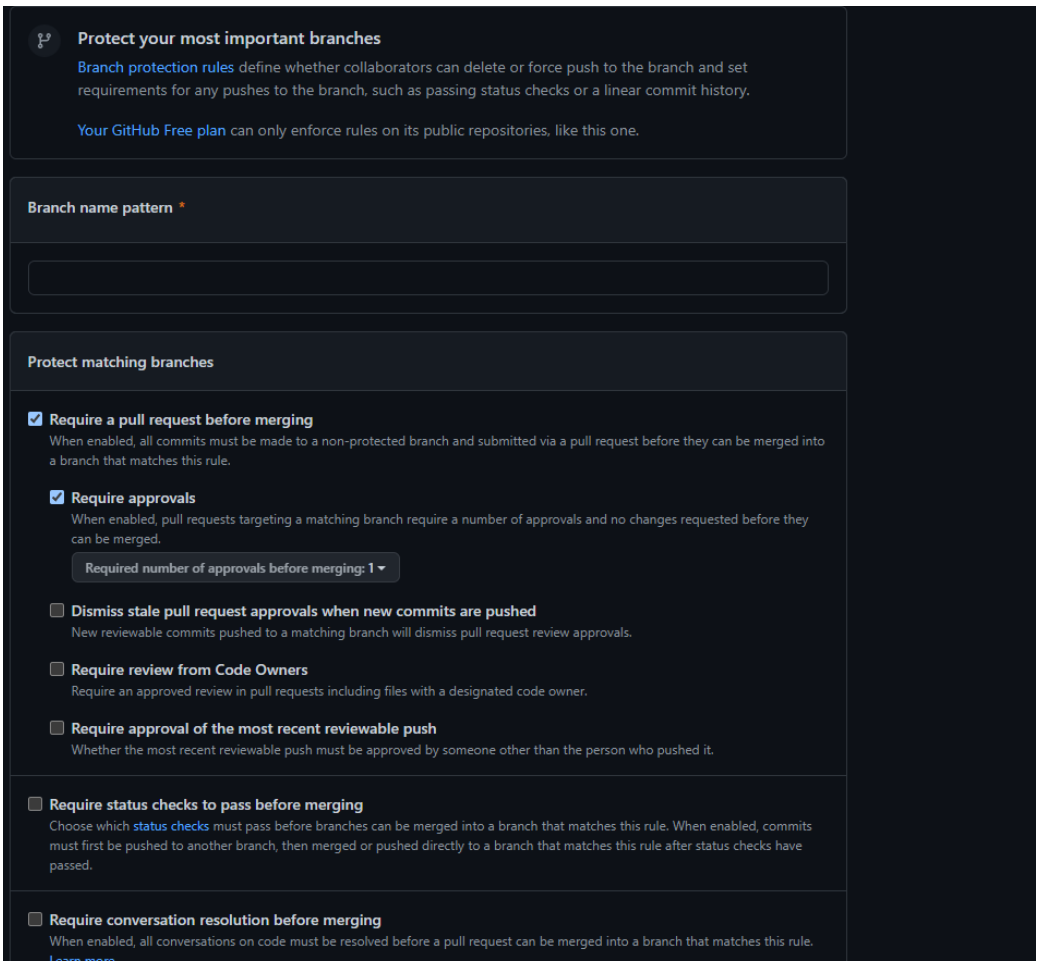


Depois disto feito as permissões estarão bem definidas permitindo a developers a submissão de código, mas nunca a alteração de visibilidade do repositório.

Ponto 3




Branch protection rule
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 *
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 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.
Require conversation resolution before merging
When enabled, all conversations on code must be resolved before a pull request can be merged into a branch that matches this rule.
Learn more.
Require signed commits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Branch name pattern *
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.
Require conversation resolution before merging
When enabled, all conversations on code must be resolved before a pull request can be merged into a branch that matches this rule.

Ponto 4

Para adicionar um ficheiro .gitignore basta usar o seguinte código:

git checkout develop
nano .gitignore
Inserir isto dentro do documento (*.docx \n *.doc) depois Ctrl O + Enter + Ctrl X
cat .gitignore
git add .
git commit -m "Adicionar .gitignore"
git push -u origin main
git checkout develop
git pull origin main

Ponto 5

O ponto 5 é dividido em 4 partes cada uma diferente:

A) **git flow feature start relatorioinicial**
   git add .
   git commit -m “exemplo”
   git flow feature finish relatorioinicial
   git push -u origin

B) **git flow feature start mudancasrelatorio(1,2..)**
   git add .
   git commit -m “exemplo”
   git flow feature finish mudancasrelatorio
   git push -u origin
   Repetir 4x

C) **git flow release start REL_1.0 develop**
   git flow release finish REL_1.0 -m (o -m é importante pois dá merge)
   git push –all

D) **git flow hotfix start REL_1.0.1 develop**
   git add .
   git commit -m "Hotfix"
   git flow hotfix finish REL_1.0.1
   git pull origin develop
   git push –all