Basic GIT

- Simple tutorial -

GIT

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Distributed version control system

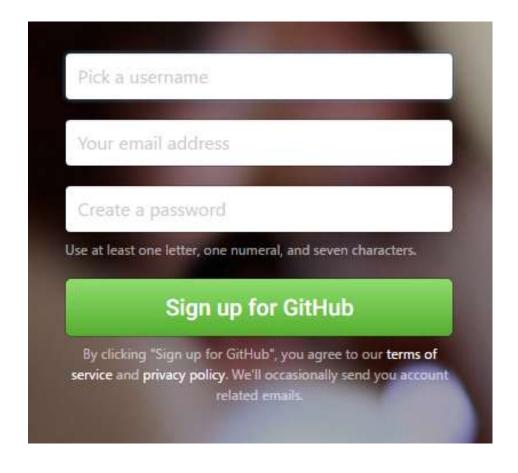
Git repository

- The history of a collection of files starting from a certain directory
 - Why is such a thing useful?

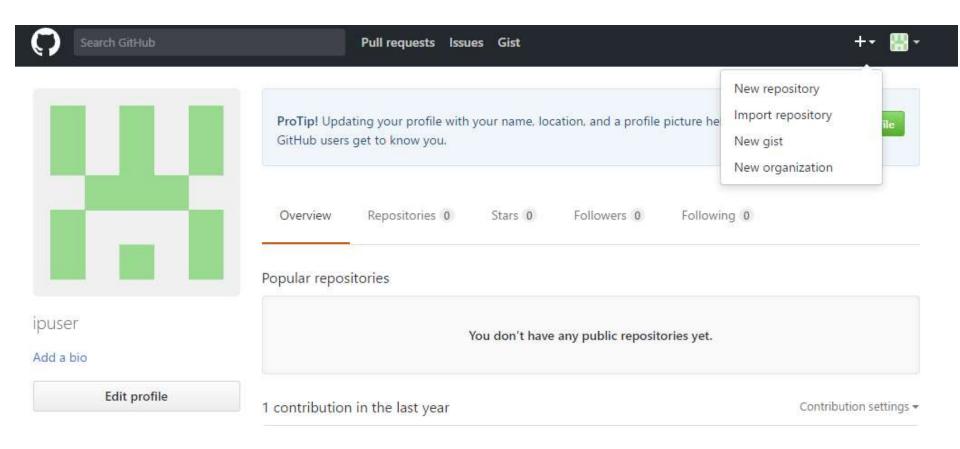
- GitHub: a web-based git repository hosting
 - + issue tracker, wiki support, code review, pull requests support, etc.

Let's start!

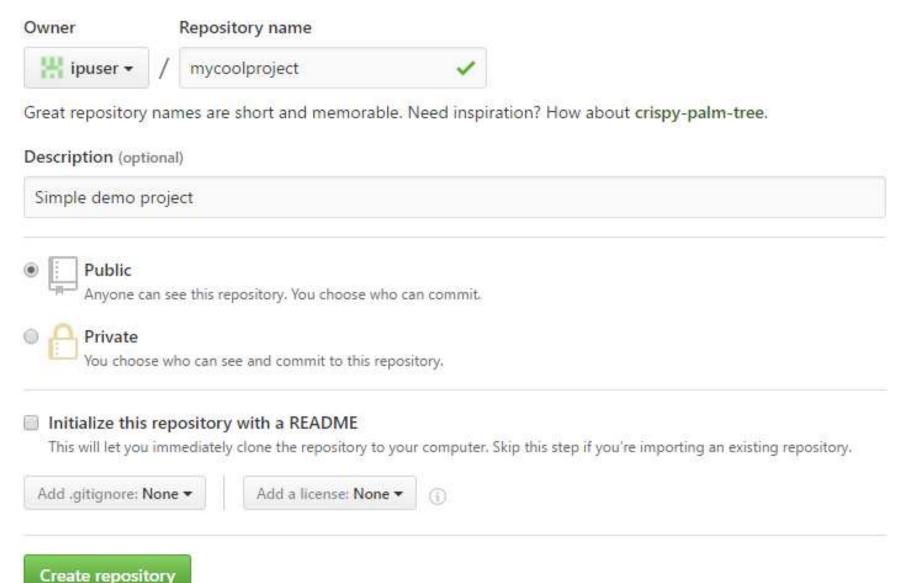
Create an account at https://github.com



Crearea unui repository



Crearea unui repository



Creare cu succes



Clonarea pe masina locala

- Instalare distribuție git: https://git-scm.com/downloads
- Windows: https://git-scm.com/download/win

• In linia de comanda:

```
git clone https://github.com/ipuser/mycoolproject.git
```

Branch: master vs. origin

Studiu de caz: adaugarea unui README

- 1. Creare fisier/fisiere
 - 1. Se creeaza fisierul README.md (in folderul local mycoolproject)
 - 2. Se adauga urmatorul continut:
 ## My cool project

This is a simple demo.

- 2. Pregatirea pentru commit: git add README.md
- 3. Commit local
 git commit -m "Added README file."
- 4. Trimiterea modificarilor: git push origin master

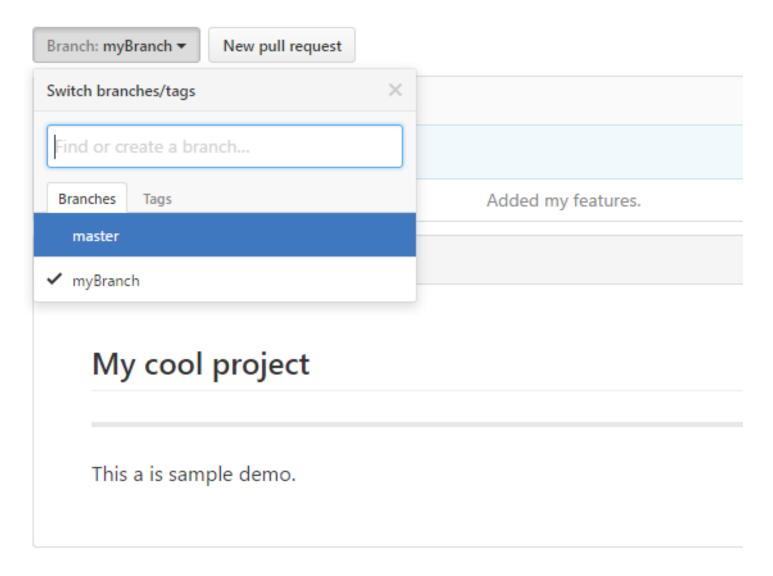
Pe Github:

!!! ipuser Added README file.		Latest commit 8e780ab 33 seconds ago
README.md	Added README file.	32 seconds ago
■ README.md		
My cool project This is simple demo.		

Branch-uri

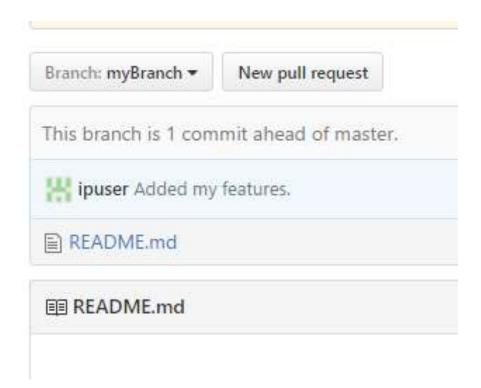
- De cele mai multe este bine sa NU lucram direct in master
- Este preferabil un branch (o copie) in care putem lucra independent de ceilalti
- Pentru a crea un branch:
 - git checkout -b myBranch master
- Pentru a face push unui branch:
 git push origin myBranch

Branch-ul este vizibil pe GitHub

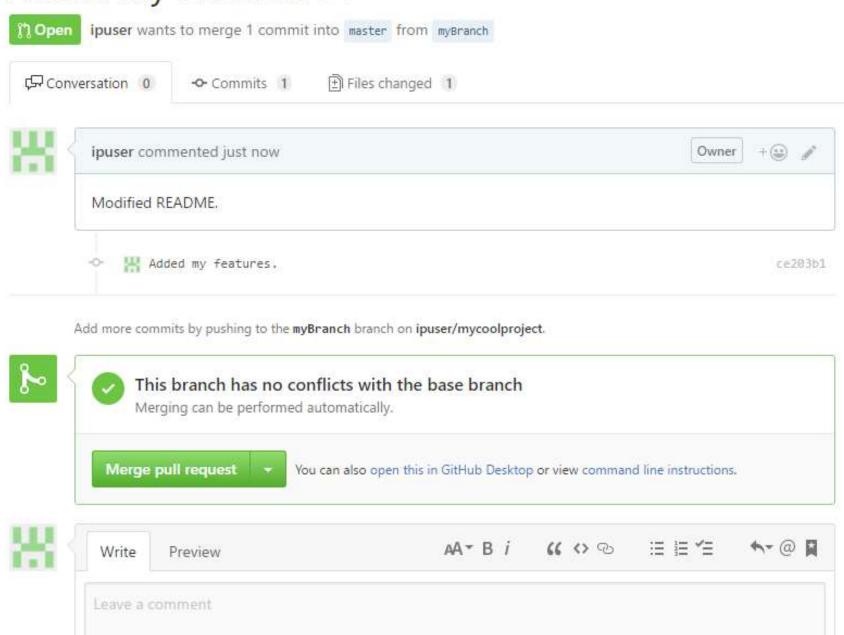


Pull request

Cum ajung modificarile in master?
 Apasati "New pull request"



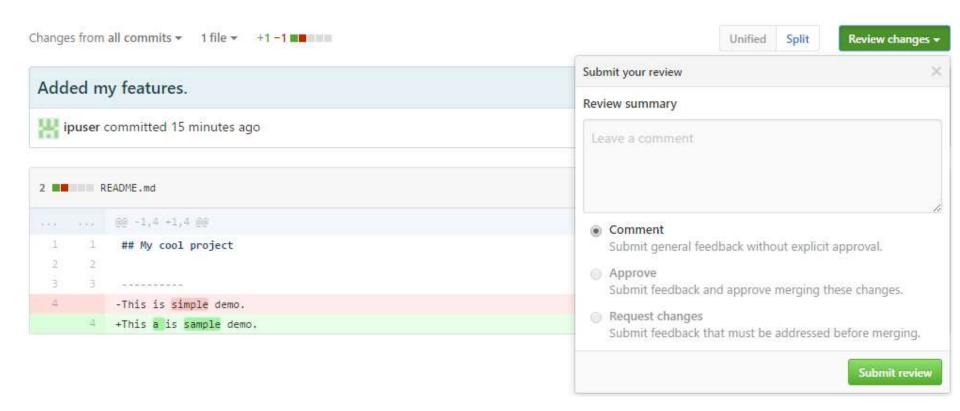
Added my features. #1



Code review



Code review

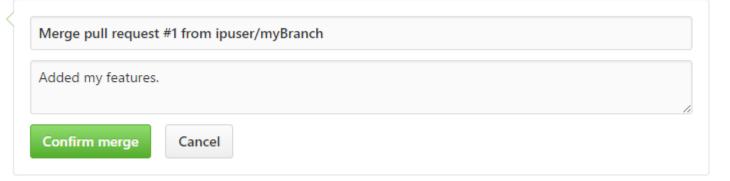


Merging











Pull request successfully merged and closed
You're all set—the myBranch branch can be safely deleted.

₽ Delete branch

Concluzii

- GIT: "versioning system" distribuit
- Fiecare lucreaza pe copia proprie
- Schimbarile sunt vizibile abia la pull request
- Se face code review -> calitate crescuta a codului
- Nu se altereaza masterul, ci se adauga doar modificarile testate si verificate din branch-uri