Escuela de Ingeniería Informática

Universidad de Oviedo

SOFTWARE ARCHITECTURE

Lab 1

- Intro to labs
- Teams organization
- Git
- GitHub

2021-22

Jose Emilio Labra Gayo
Pablo González
Irene Cid
Hugo Lebredo

Intro to labs

What are we going to do in these sessions?

Develop an online shoping system **Decentralized Delivery** (DeDe) which respects privacy following SOLID principles

Resources?

- http://arquisoft.gihub.io: course documents.
- Virtual Campus
- Lab spec: https://arquisoft.github.io/course2122/labAssignmentDescription.html
- Project github repositories .

Lab assessment?

70% - Teamwork

30% - Individual work

Team work

Meeting minutes

- Each lab session **==** group meeting.
  - Other meetings allowed out of lab sessions
- **Mandatory** to take minutes of each meeting
- Wiki section of each repository will be used to record minutes
- Minimal mandatory format :

  ❑ Date 📅

  ❑ Participant list 👥

  ❑ Agreements about work assignment for next session (open issues) ⍰

  ❑ Review state of tasks from past meetings ☑

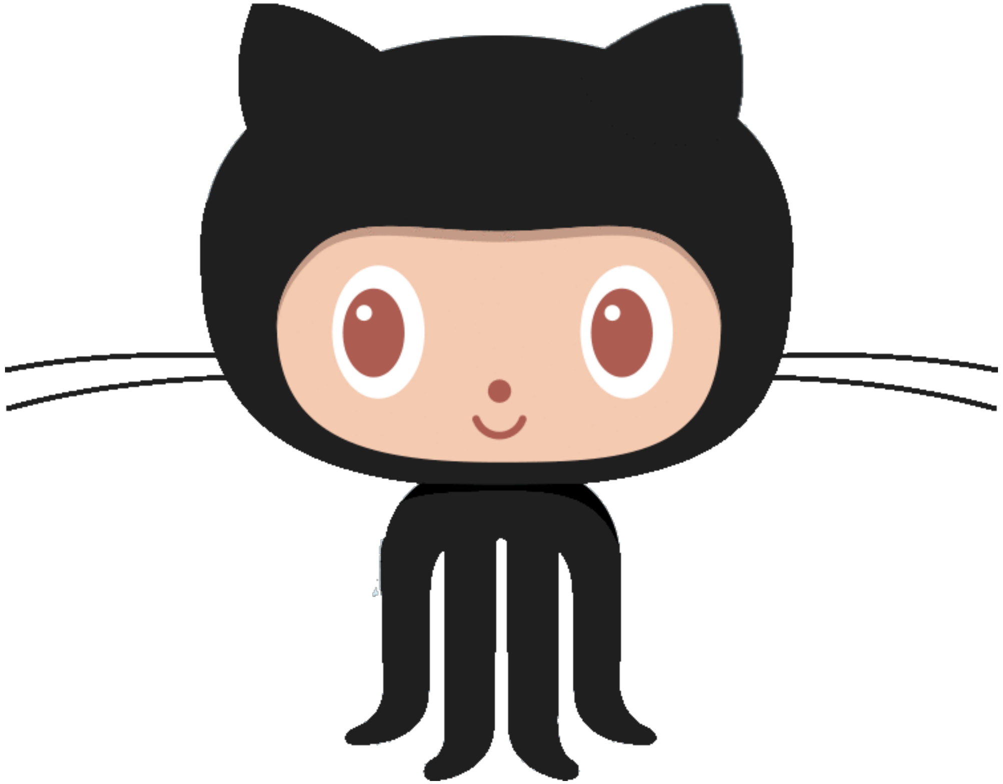
  - Links to **Issues** and **Pull requests** 🔗

  ❑ Short description of decisions taken

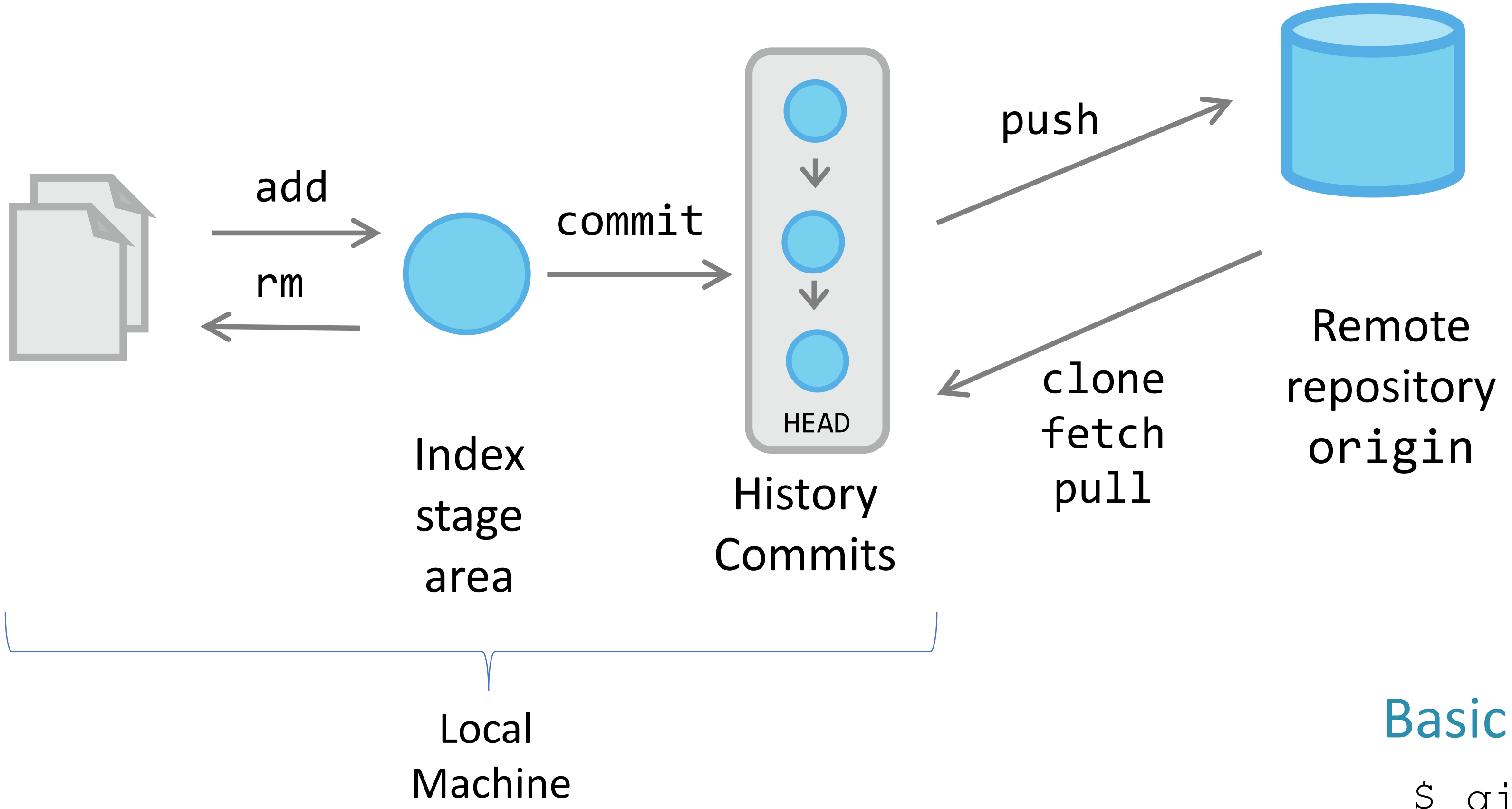
  - Preferrable to include links architecture decision records (https://adr.github.io/)

● Git

≠



Git



Basic workflow

```
$ git init
$ git clone urlRepository
$ git add .
$ git commit -m "message"
$ git push origin master
```

Git Working with branches

Create a branch:

```
      $ git checkout -b branch1
```

Check our current branch:

```
     $ git branch
```

Change to another branch:

```
     $ git checkout master
```

See differences from branchs

```
     $ git diff --stat master branch1
```

Merge branch:

```
    $ git checkout master
    $ git merge --no-ff branch1
```

Remove branch:

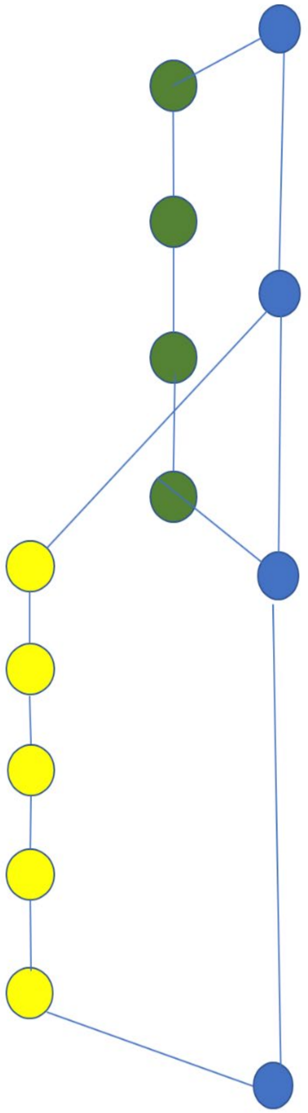
```
    $ git branch -d branch1
```

Create the develop branch:

```
   $ git checkout -b develop
```

Push it to the remote repository:

```
   $ git push origin develop
```



Git

Branching strategies

- Several strategies whose seccess depends on several factors.
  - See: https://martinfowler.com/articles/branching-patterns.html
- Some popular patterns:
  - Git-flow, by Vincent Driessen, 2010: A successful Git branching model
  - GitHub Flow strategy
  - Trunk based development: https://trunkbaseddevelopment.com/

Pull Request

Steps

New branch

```
    $ git flow feature start RE1 develop #option 1
    $ git checkout -b feature-RE1 develop #option 2
```

Add your name inside the *Collaborator* section in your *README.md* file

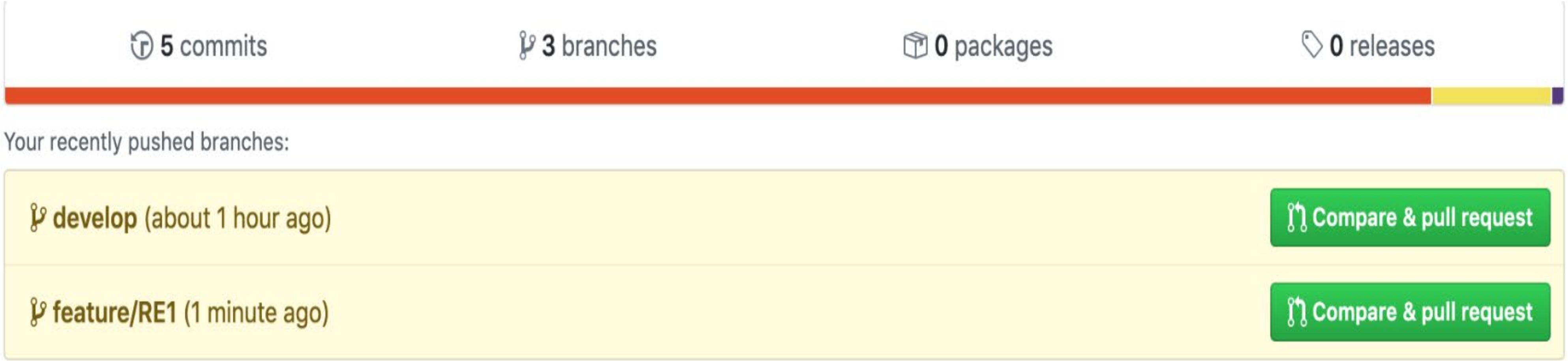
Send your local changes

```
    $ git add .
    $ git commit
```

Submit your changes to remote

```
    $ git push --set-upstream origin feature-RE1
```

Go to github and ask for a pull request



5 commits 3 branches 0 packages 0 releases

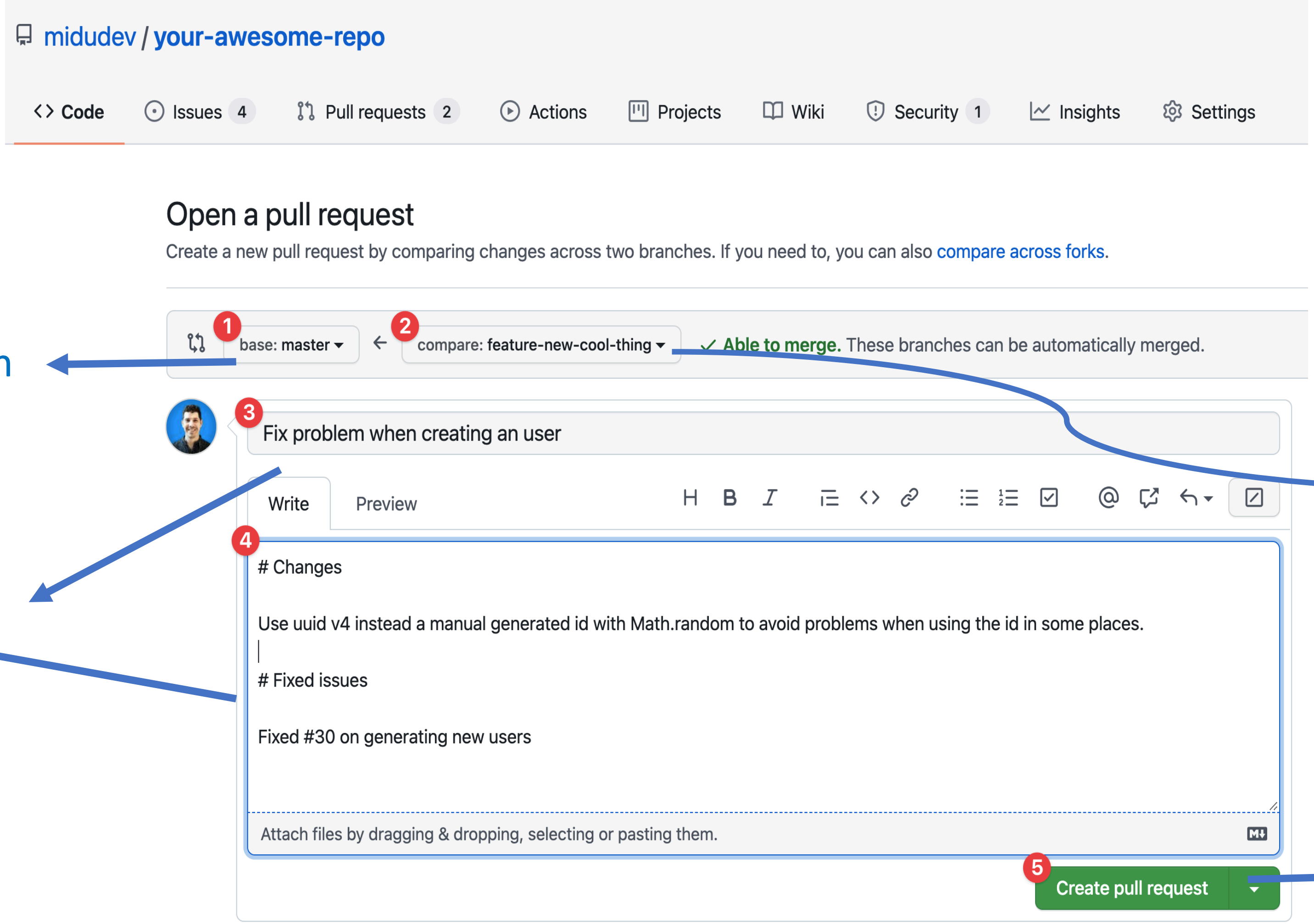
Your recently pushed branches:

develop (about 1 hour ago)

feature/RE1 (1 minute ago)

GitHub

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: feature-new-cool-thing ✓ Able to merge. These branches can be automatically merged.

Fix problem when creating an user

```
# Changes

Use uuid v4 instead a manual generated id with Math.random to avoid problems when using the id in some places.

# Fixed issues

Fixed #30 on generating new users
```

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

Target branch

Branch we want to merge

Add more context

Create pull request

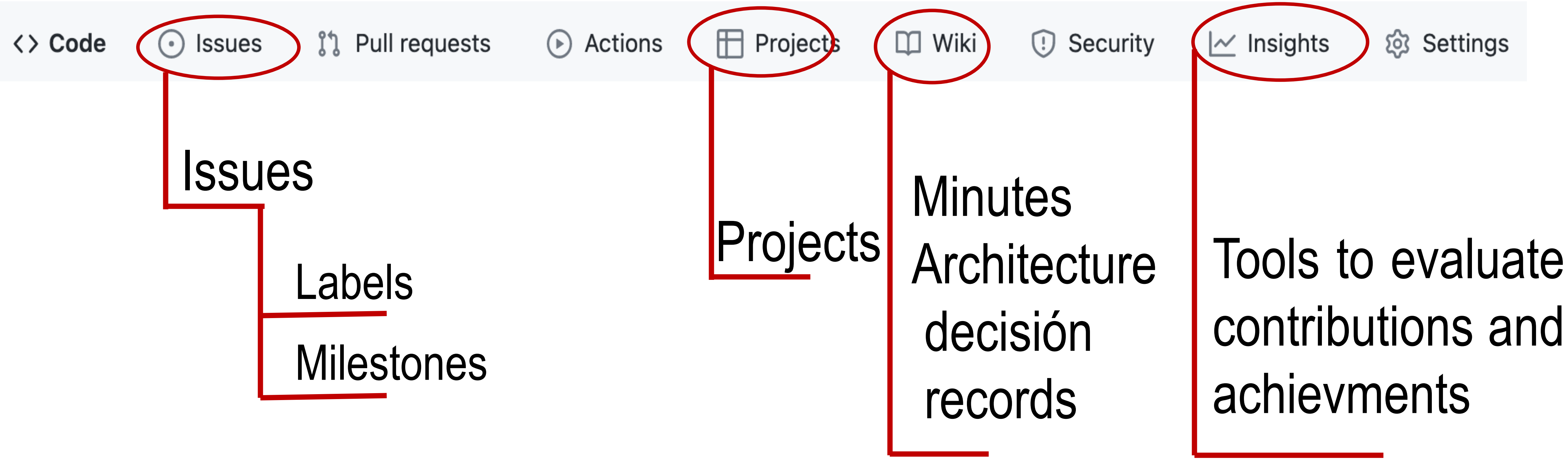
● GitHub as a Project management tool

Advantages of Project management

- Project planning (future)
- More control over current project's state (present)
  - Detect bottlenecks.
  - Share work load between team members.
  - Current problems.
- Report achievements (Past).
  - Evaluate each member's contributions to the project

GitHub

Some tools provided by github for Project management



Issues

Labels

Milestones

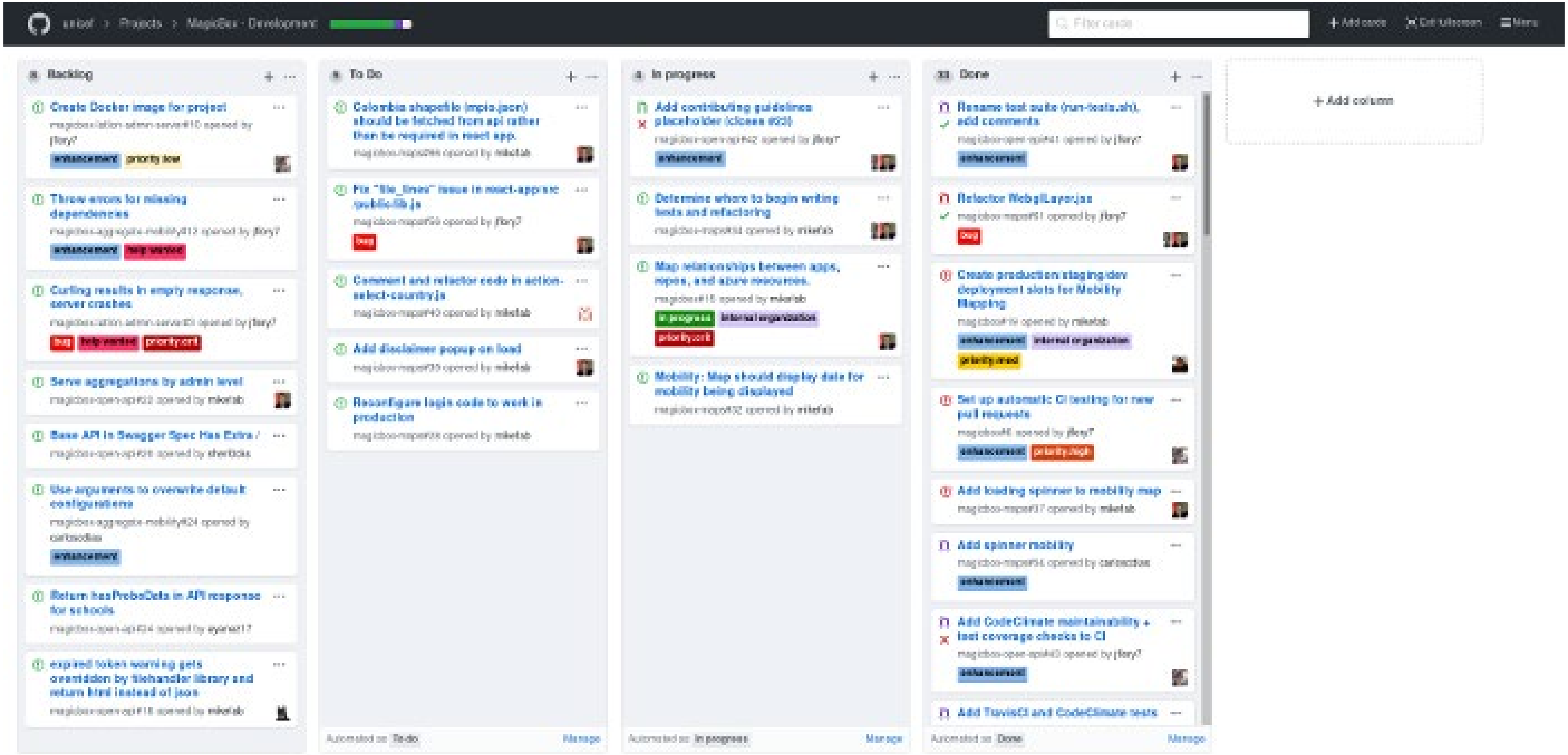
Projects

Minutes

Architecture decisión records

Tools to evaluate contributions and achievments

GitHub



8 Backlog

- Create Docker image for project — magicbox-lation-admin-server#10 opened by jflory7 — enhancement, priority low
- Throw errors for missing dependencies — magicbox-aggregate-mobility#12 opened by jflory7 — enhancement, help wanted
- Curling results in empty response, server crashes — magicbox-lation-admin-server#3 opened by jflory7 — bug, help wanted, priority crit
- Serve aggregations by admin level — magicbox-open-api#32 opened by mikefab
- Base API in Swagger Spec Has Extra / — magicbox-open-api#38 opened by sherbidis
- Use arguments to overwrite default configurations — magicbox-aggregate-mobility#24 opened by carlosodlas — enhancement
- Return hasProbeData in API response for schools — magicbox-open-api#34 opened by ayanez17
- expired token warning gets overridden by filehandler library and return html instead of json — magicbox-open-api#18 opened by mikefab

5 To Do

- Colombia shapefile (mpio.json) should be fetched from api rather than be required in react app. — magicbox-maps#66 opened by mikefab
- Fix "file_lines" issue in react-app/src/public/lib.js — magicbox-maps#59 opened by jflory7 — bug
- Comment and refactor code in action-select-country.js — magicbox-maps#40 opened by mikefab
- Add disclaimer popup on load — magicbox-maps#33 opened by mikefab
- Reconfigure login code to work in production — magicbox-maps#38 opened by mikefab

Automated as: To do — Manage

4 In progress

- Add contributing guidelines placeholder (closes #23) — magicbox-open-api#42 opened by jflory7 — enhancement
- Determine where to begin writing tests and refactoring — magicbox-maps#53 opened by mikefab
- Map relationships between apps, repos, and azure resources. — magicbox#15 opened by mikefab — in progress, internal organization, priority crit
- Mobility: Map should display data for mobility being displayed — magicbox-maps#52 opened by mikefab

Automated as: In progress — Manage

33 Done

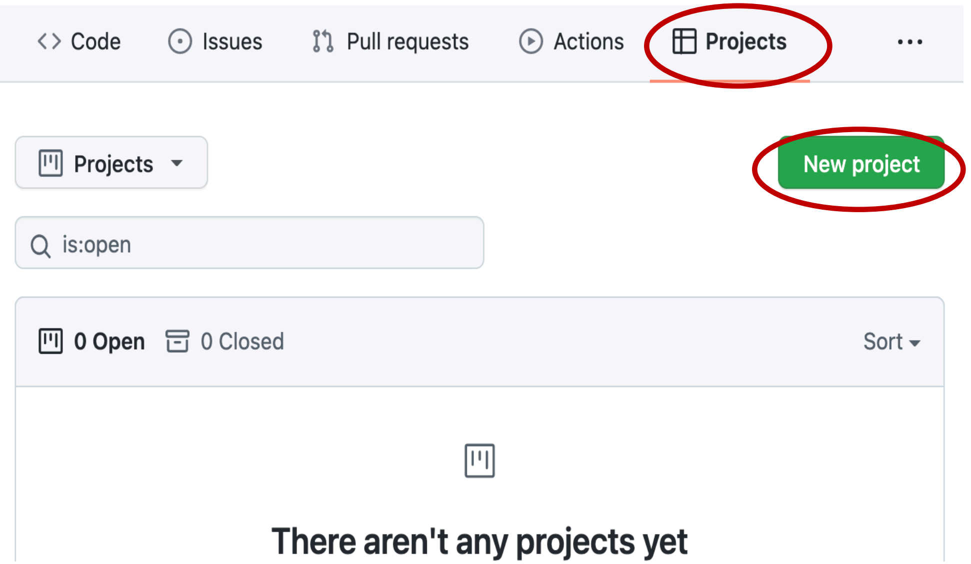
- Rename test suite (run-tests.sh), add comments — magicbox-open-api#41 opened by jflory7 — enhancement
- Refactor WebglLayer.js — magicbox-maps#61 opened by jflory7 — bug
- Create production/staging/dev deployment slots for Mobility Mapping — magicbox#19 opened by mikefab — enhancement, internal organization, priority med
- Set up automatic CI testing for new pull requests — magicbox#6 opened by jflory7 — enhancement, priority high
- Add loading spinner to mobility map — magicbox-maps#37 opened by mikefab
- Add spinner mobility — magicbox-maps#54 opened by carlosodlas — enhancement
- Add CodeClimate maintainability + test coverage checks to CI — magicbox-open-api#43 opened by jflory7 — enhancement
- Add TravisCI and CodeClimate tests

Automated as: Done — Manage

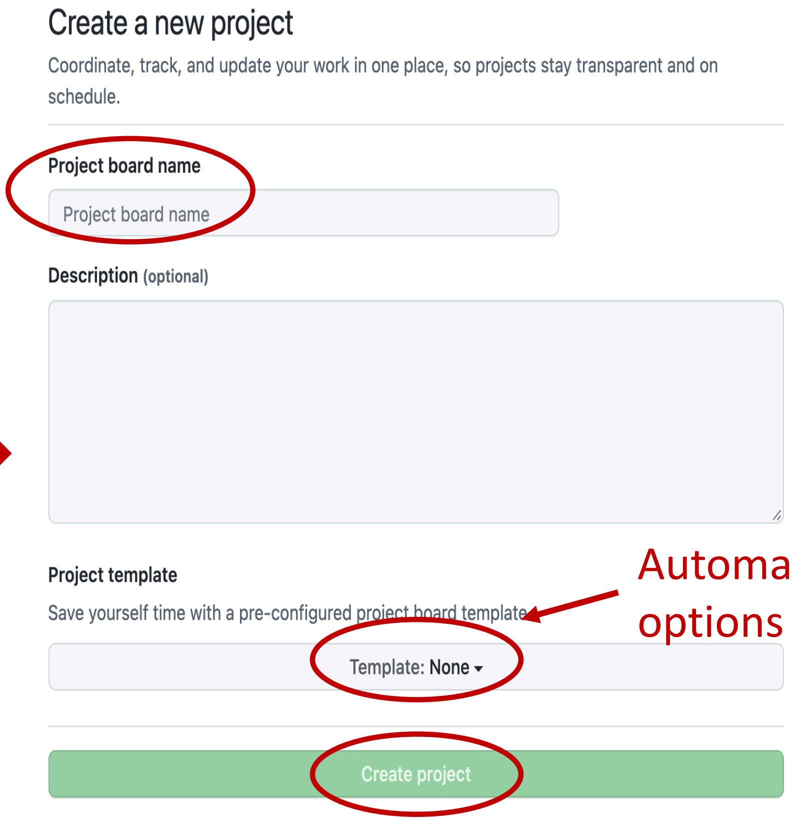
GitHub

Project tab

- It is possible to create KanBan projects
- Automate workflow managing also issues and pull requests
- It is possible to create different dashboards (docs, backend,…)



There aren't any projects yet



Create a new project

Coordinate, track, and update your work in one place, so projects stay transparent and on schedule.

Save yourself time with a pre-configured project board template.

Automation options

🟡 GitHub

Issues 📝

They are like post-it in a **Kanban** project

☞ Each problem, task or even question related with the Project can have a issue.

They use **Markdown**.

Recommended to write only the necessary to understand the issue. You can add pictures or links

It is the main part of a Project and can be used to understand the state of the project.

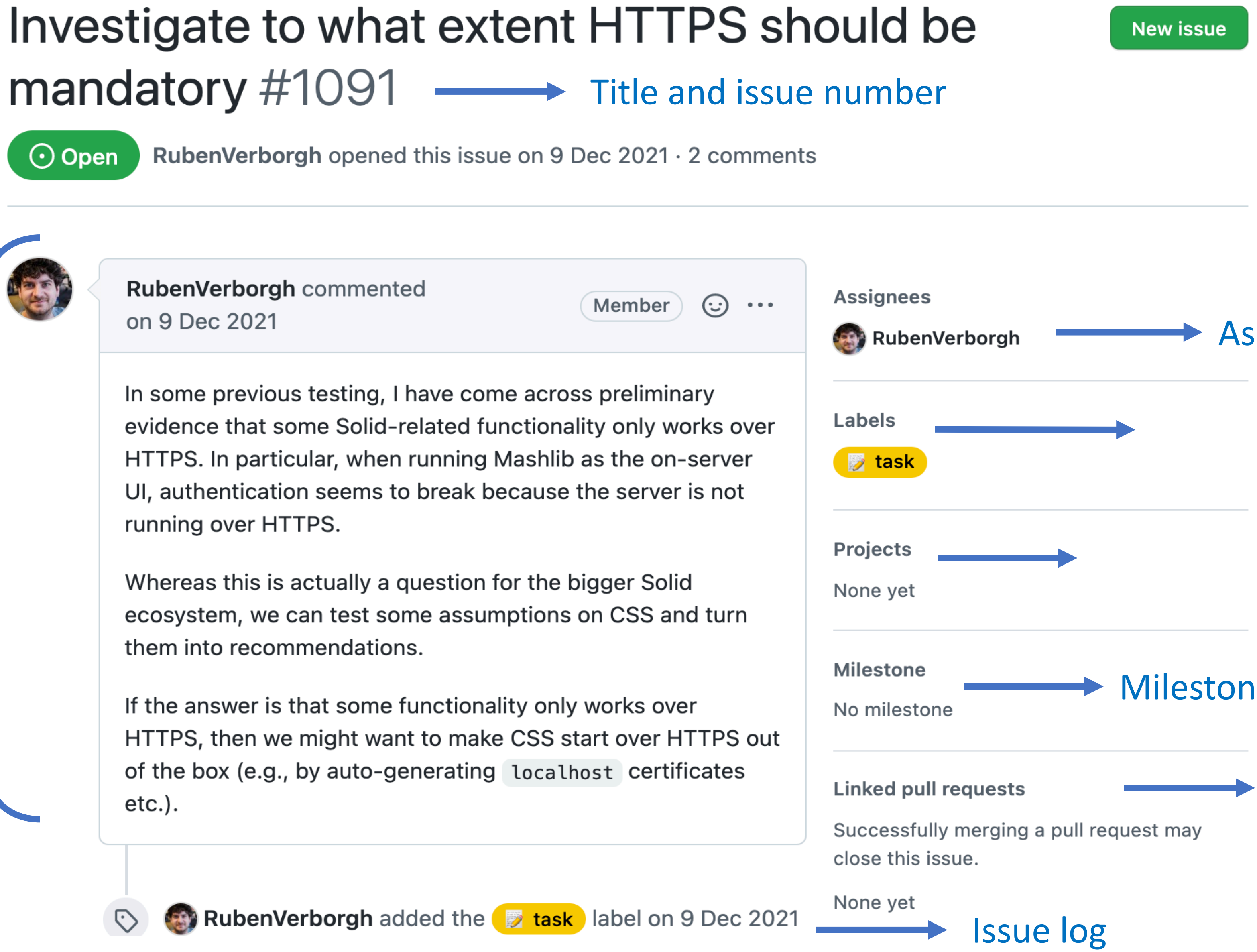
An Issue can be related with other entities in a github repo.

People 👥
Labels 🏷
Milestones 🏁

⊘ => [🗣 📱 💬 🖂 ❐]

We only assess information that appears in the github repo

GitHub



Investigate to what extent HTTPS should be mandatory #1091

New issue

Open RubenVerborgh opened this issue on 9 Dec 2021 · 2 comments

RubenVerborgh commented on 9 Dec 2021

Member

In some previous testing, I have come across preliminary evidence that some Solid-related functionality only works over HTTPS. In particular, when running Mashlib as the on-server UI, authentication seems to break because the server is not running over HTTPS.

Whereas this is actually a question for the bigger Solid ecosystem, we can test some assumptions on CSS and turn them into recommendations.

If the answer is that some functionality only works over HTTPS, then we might want to make CSS start over HTTPS out of the box (e.g., by auto-generating `localhost` certificates etc.).

RubenVerborgh added the task label on 9 Dec 2021

Assignees

RubenVerborgh

Labels

task

Projects

None yet

Milestone

No milestone

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

Title and issue number

Issue status

Problem explanation

Comments

Assigned to 👥

Milestones 🏁

Corresponding pull request

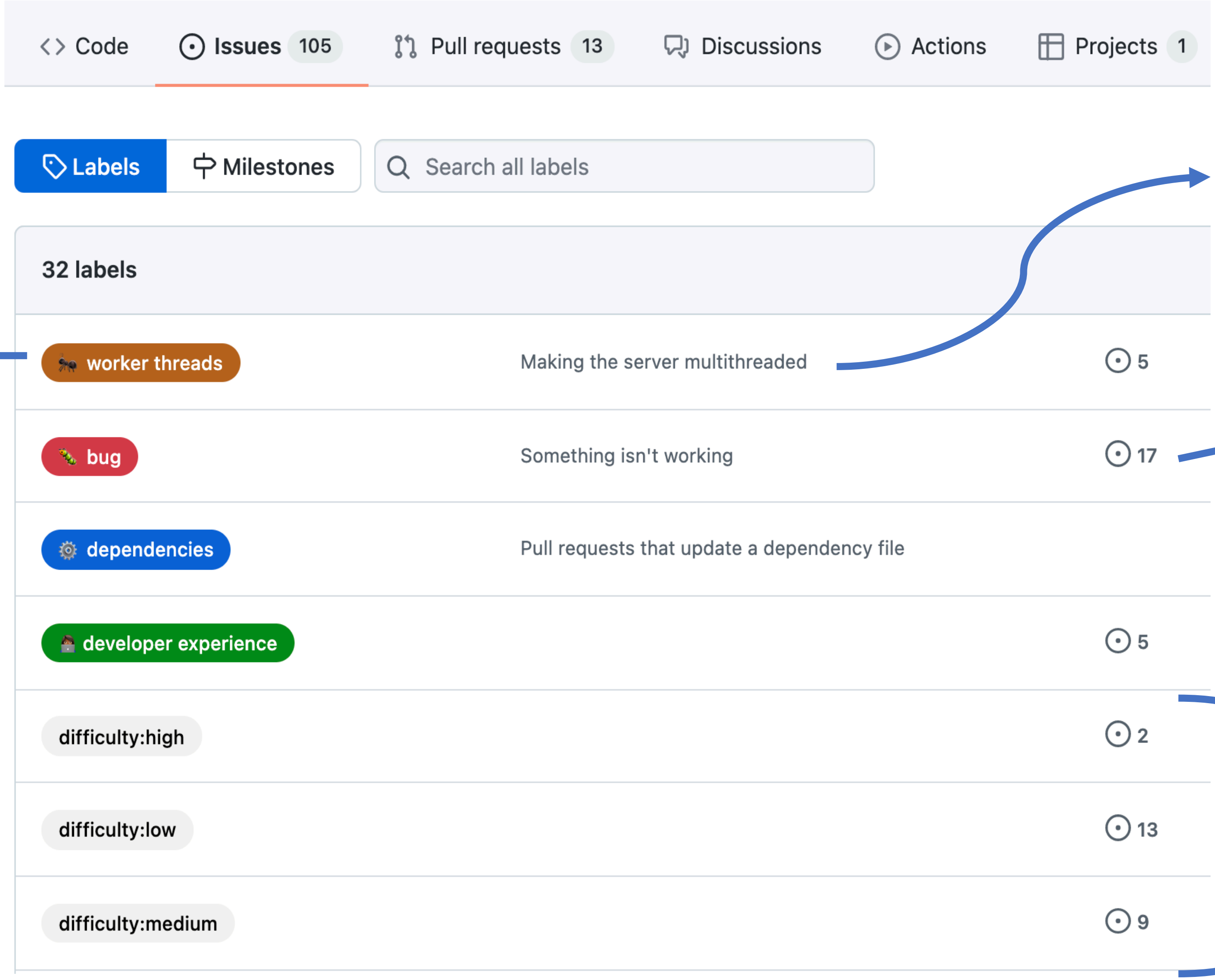
Issue log

GitHub

Labels 🏷

- Labels can be used to catalog issues.
- Generic labels from GitHub
- You can create your own labels (backend, frontend, bbdd, hierarchies)
- You can personalize color and even use emojis 💅.

GitHub



32 labels

worker threads	Making the server multithreaded	5
bug	Something isn't working	17
dependencies	Pull requests that update a dependency file	
developer experience		5
difficulty:high		2
difficulty:low		13
difficulty:medium		9

Label name

Short description

Number of labelled issues

Common use in hierarchies to give priorities

You can use arquisoft FAQ for questions

https://github.com/Arquisoft/faq/issues

- Share questions about the course

- It is allowed to add any issue that describes some question in either English or Spanish,
  - Anyone can contribute answering the question or adding any comment.
  - Contributors must follow a code of conduct that respects the ethical considerations from a University of Oviedo Course.
- The teachers can remove any issue or contribution that they consider inappropriate for the course.

Additional links

- Introduction to git Git.
- Quick reference from Pablo Gonzalez
- Short introducción a git (Hugo)
- Git: the simple guide
  - https://rogerdudler.github.io/git-guide/index.html
- learngitbranching.js.org