



SOFTWARE ARCHITECTURE

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Escuela de
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Informática



Universidad de Oviedo

Lab 1

- Intro to labs
- Teams organization
- Git
- GitHub

● Intro to labs

What are we going to do in these sessions?

Design and develop an online game of questions and answers that are automatically generated using Wikidata.

Resources?

- <http://arquisoft.gihub.io>: course documents.
- [Virtual Campus](#)
- WIQ Lab [specification](#)
- Project github [repositories](#) .

Lab assessment?

70% - Teamwork 

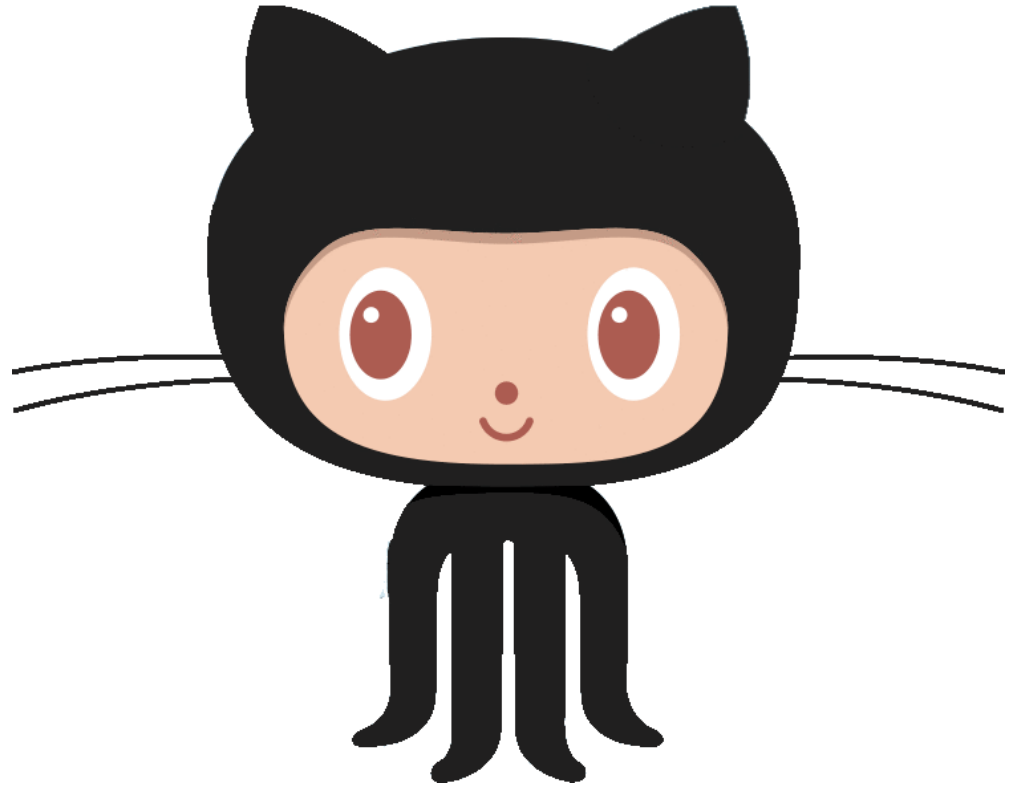
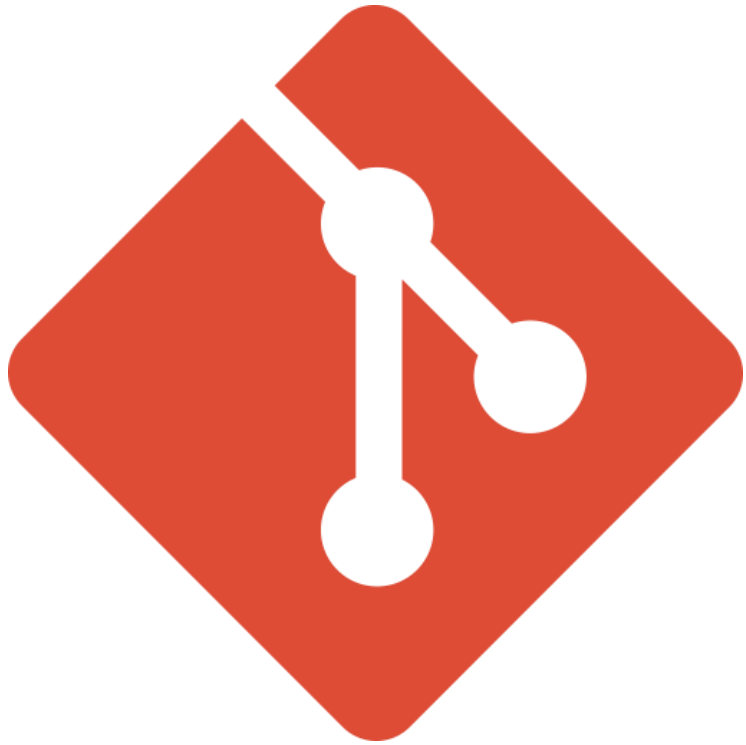
30% - Individual work 

● Team work

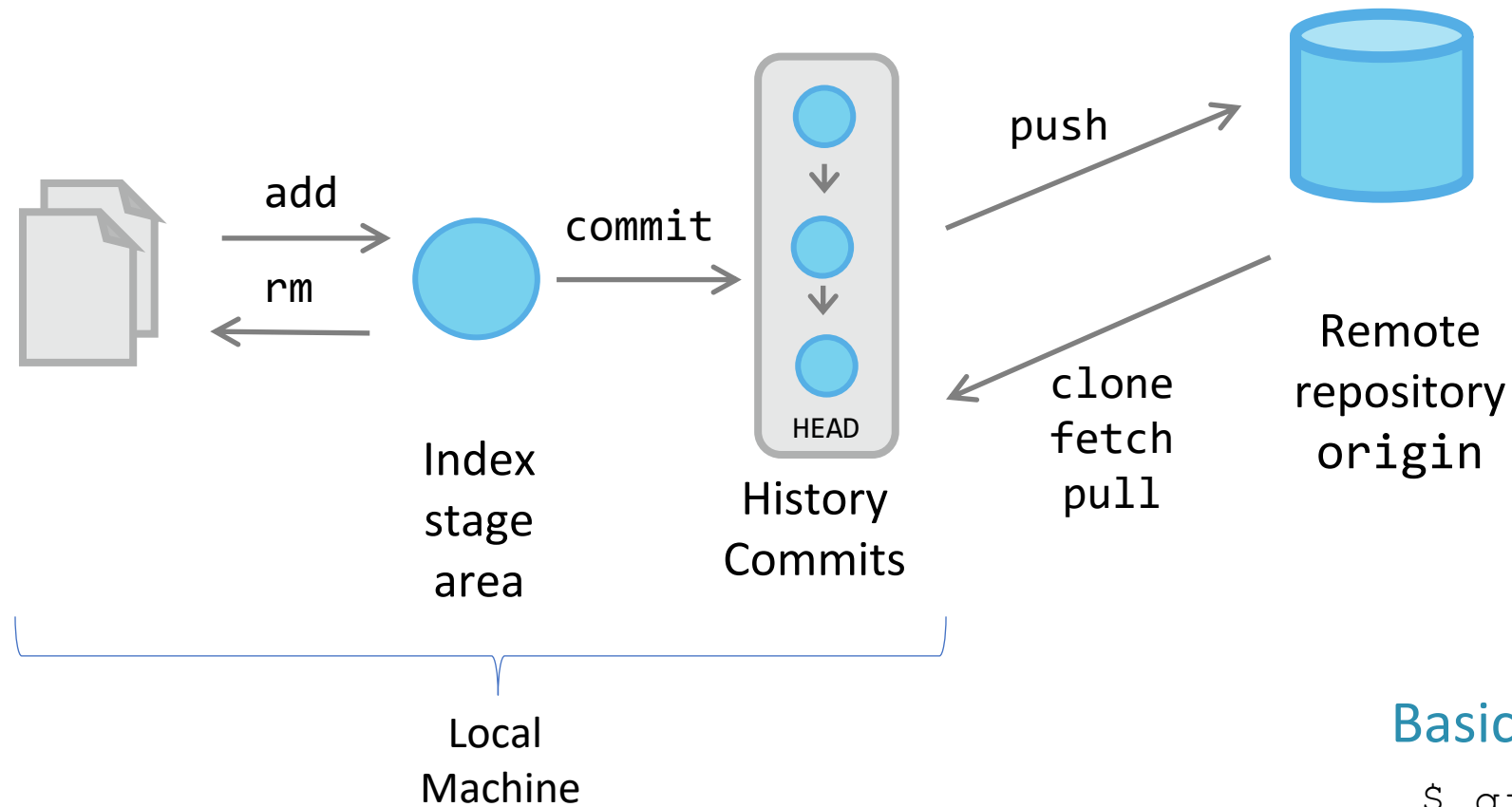
Meeting minutes

- Each lab session == group meeting.
 - Other meetings allowed out of lab sessions
- **Mandatory** to create 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
 - Preferable 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
```



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 branches

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

Merge branch:

```
$ git checkout master
```

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

Remove branch:

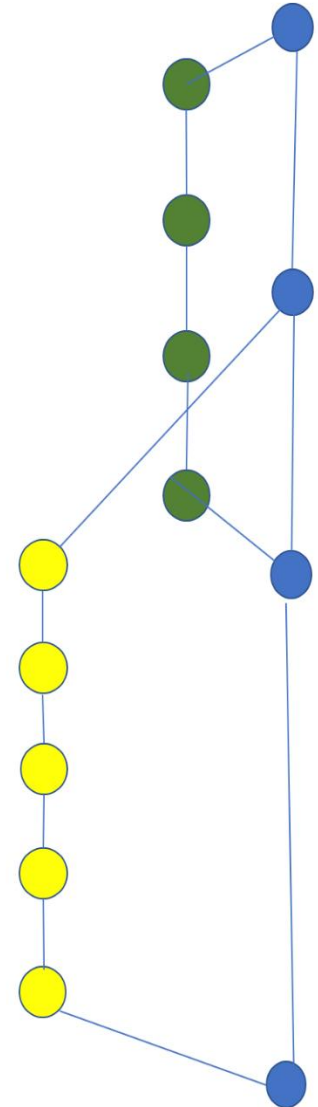
```
$ git branch -d branch1
```

Create the develop branch:

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

Push it to the remote repository:

```
$ git push origin develop
```





Git

Branching strategies

- Several strategies whose success 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

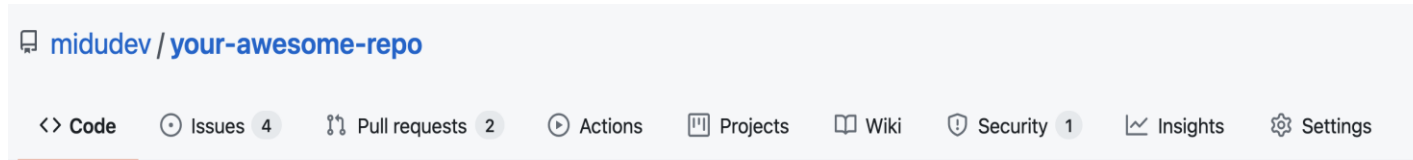
0 packages

0 releases

Your recently pushed branches:



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](#).

Target branch → 1 base: master

← 2 compare: feature-new-cool-thing → **Branch we want to merge**

3 Fix problem when creating an user

4

Add more context →

5 **Create pull request** → **Create pull request**

Write Preview H B I ≡ <> 🔗 ⋮ ⋮ ☑ @ 📎 ↶

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.

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

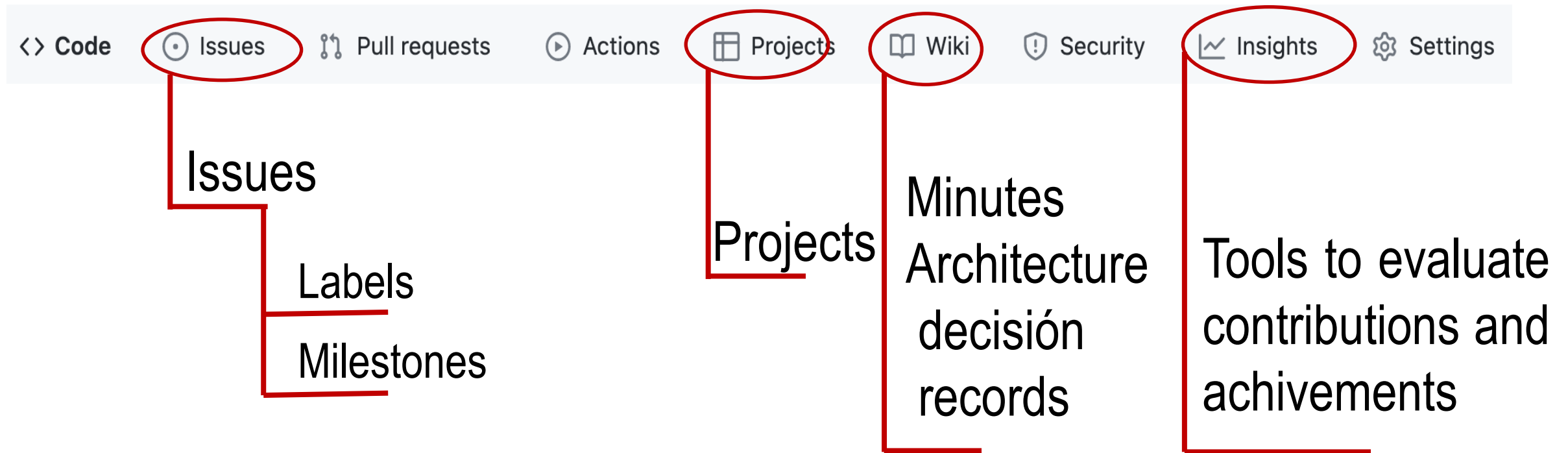
● GitHub as a Project management tool

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





 [label](#) > [Projects](#) > [MagicBox - Development](#)

[+ Add cards](#) [x Collaborators](#) [Menu](#)

Backlog

+ -

1 Create Docker image for project

magibox-admin-server#10 opened by jfory?

enhancement priority:low

2 Throw errors for missing dependencies

magibox-agg-egpts-mobility#12 opened by jfory?

enhancement bug:critical

3 Curling results in empty response, server crashes

magibox-admin-server#11 opened by jfory?

bug high:critical priority:crit

4 Serve aggregations by admin level

magibox-open-api#10 opened by mikelab

5 Base API in Swagger Spec Has Extra /

magibox-open-api#10 opened by shertok

6 Use arguments to overwrite default configurations

magibox-agg-egpts-mobility#24 opened by caracolas

enhancement

7 Return hasProbsData in API response for schools

magibox-open-api#24 opened by ayonai17

8 expired token warning gets overridden by filehandler library and return html instead of json

magibox-open-api#18 opened by mikelab

Automated on: To-do

Manage

To Do

+ -

1 Colombia shapefile (mpis.json) should be fetched from api rather than be required in react app.

magibox-map#29 opened by mikelab

2 Fix "file_lines" issue in select-app.js

magibox-map#30 opened by jfory?

bug

3 Comment and refactor code in action-select-country.js

magibox-map#40 opened by mikelab

4 Add disclaimer popup on load

magibox-map#33 opened by mikelab

5 Reconfigure login code to work in production

magibox-map#10 opened by mikelab

Automated on: To-do

Manage

In progress

+ -

1 Add contributing guidelines placeholder (closes #93)

magibox-open-api#42 opened by jfory?

enhancement

2 Determine where to begin writing tests and refactoring

magibox-map#34 opened by mikelab

3 Map relationships between apps, repos, and azure resources

magibox#16 opened by mikelab

in progress internal:organization priority:crit

4 Mobility: Map should display data for mobility being displayed

magibox-map#32 opened by mikelab

Automated on: In progress

Manage

Done

+ -

1 Rename test suite (run-tests.sh), add comments

magibox-open-api#1 opened by jfory?

enhancement

2 Refactor WebglLayer.js

magibox-map#31 opened by jfory?

bug

3 Create production/staging/dev deployment slots for Mobility Mapping

magibox#19 opened by mikelab

enhancement internal:organization priority:med

4 Set up automatic CI testing for new pull requests

magibox#6 opened by jfory?

enhancement priority:high

5 Add loading spinner to mobility map

magibox-map#37 opened by mikelab

6 Add spinner mobility

magibox-map#36 opened by caracolas

enhancement

7 Add CodeClimate maintainability + test coverage checks to CI

magibox-open-api#33 opened by jfory?

enhancement

8 Add TravisCI and CodeClimate tests

Automated on: Done

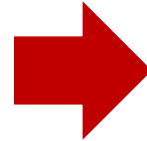
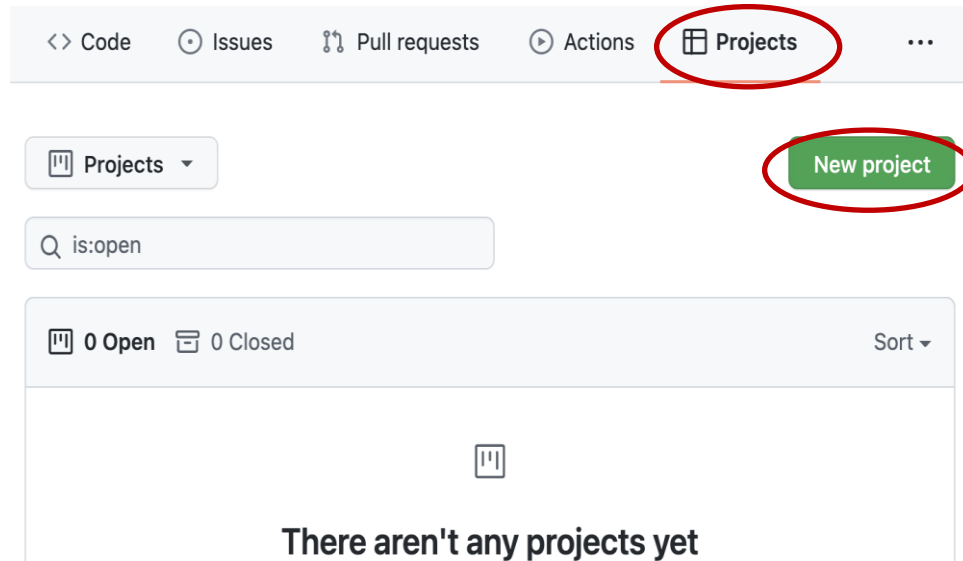
Manage

+ Add column

● 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,...)



Create a new project

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

Project board name

Description (optional)

Project template

Save yourself time with a pre-configured project board template

Automation
options



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



Investigate to what extent HTTPS should be mandatory #1091

[New issue](#)

Issue status

Open

RubenVerborgh opened this issue on 9 Dec 2021 · 2 comments

Problem explanation

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.).

Assignees



RubenVerborgh

Assigned to

Labels



task

Projects

None yet

Milestone

No milestone

Milestones

Linked pull requests

Successfully merging a pull request may close this issue.

None yet

Corresponding pull request


Issue log

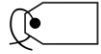


RubenVerborgh added the task label on 9 Dec 2021

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  .



<> Code Issues 105 Pull requests 13 Discussions Actions Projects 1

Labels

Milestones

Search all labels

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
hierarchies
priorities

use in
to give

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

Additional Doc

- [Miguel Angel Durán](#) channel and his initial guide [Aprendiendo Git.](#)

Youtube

- [Git explanation in 15 minutes](#)
- [Tutorial](#) for beginners
- [GitHub vs GitLab](#)

Lab assignment of this year



Description:

<https://arquisoft.github.io/course2526.html#labs>

1st deliverable

- ☐ Documentation, version 0.1
- ☐ 1st Proof of concept
- ☐ App deployed
 - ☐ WebApp invoking GameY
 - ☐ WebApp accessing Database

