

Universidad de Oviedo





Software Architecture

Lab. 2

Advanced Github

Arc42

AsciiDoc

2019-20

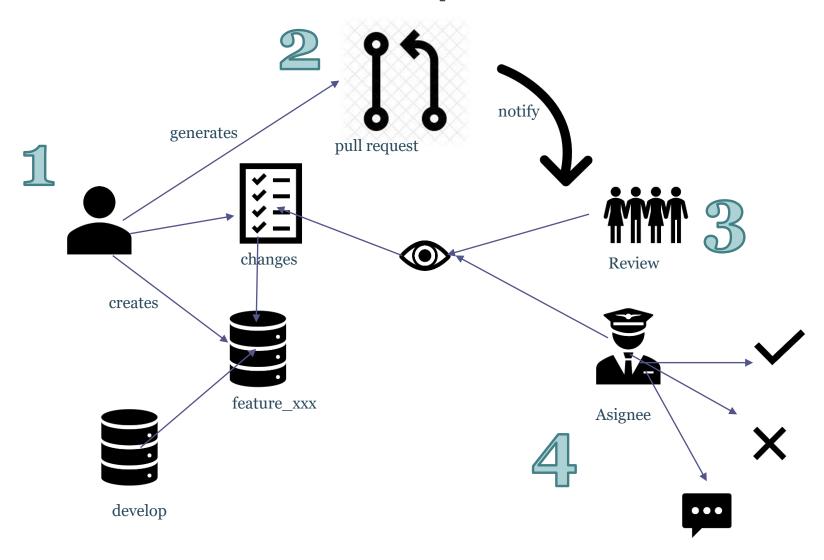
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Pull requests

- With **pull requests** we can tell others about the changes that you have made in a branch
- Others can review and comment the code before merging it to the base branch
- We have different roles: coder, reviewer,
 asignee

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Pull request



Pull request - Steps

- Create the branch
 - git checkout -b feature 1
- Commit the changes
 - git add .
 - git commit -m "changes in feature 1"
- Push the changes
 - git push --set-upstream origin feature 1
- Go to GitHub and make a Pull request
- It is a good alternative to merging the changes by yourself.
- All the team can **participate** and **review** the code.

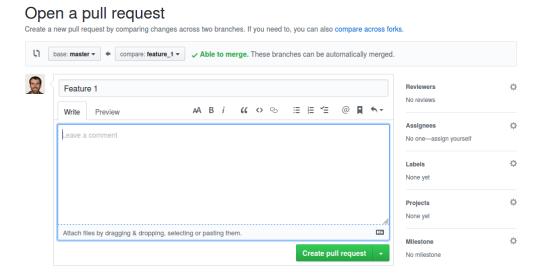
Your recently pushed branches:

preserved from the feature from the second from the feature from the featu

Ո Compare & pull request

Pull request - Steps

Add a comment to describe the Pull request. Assign reviewers to it.



• Reviewers have three different options: accept the changes, add comments or reject the changes

Arc42



Template for creating documentation for software projects



Simple, fast and clear. Open source and free of charge.



Available in multiple formats:

- -Asciidoc
- -Word (docx) Markdown
- LaTeX..

Solution

- Introduction and goals
- 2.- Constraints
- 3.- Context & scope
- 4.- Solution strategy
- 5.- Building block view
- 6.- Runtime view
- 7.- Deployment view
- 8.- Crosscutting concepts
- 9.- Architectural decisions
- 10.- Quality requirements
- 11.- Risks and technical debt
- 12.-Glossary



1 - Introduction and goals

- Short description of the **requirements**, driving forces, extract (or abstract) of requirements.
- Top three (max five) **quality goals** for the architecture which have highest priority for the major stakeholders.
- A table of important **stakeholders** with their expectation regarding architecture.



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2 - Constraints

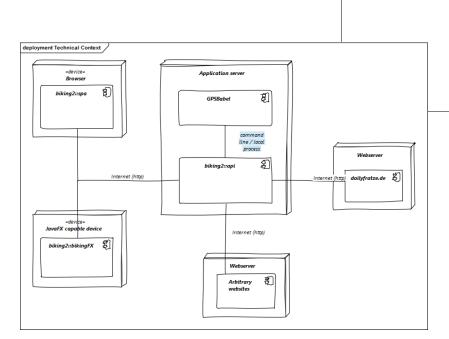
- Anything that constrains teams in design and implementation decisions or decision about related processes.
- Can sometimes go beyond individual systems and are valid for whole organizations and companies.
- Technical constrains, but also time, money, etc.



Constraint	Explanation

3-Context and scope

- Delimits your system from its (external) communication partners (neighboring systems and users)
- Business or technical perspective



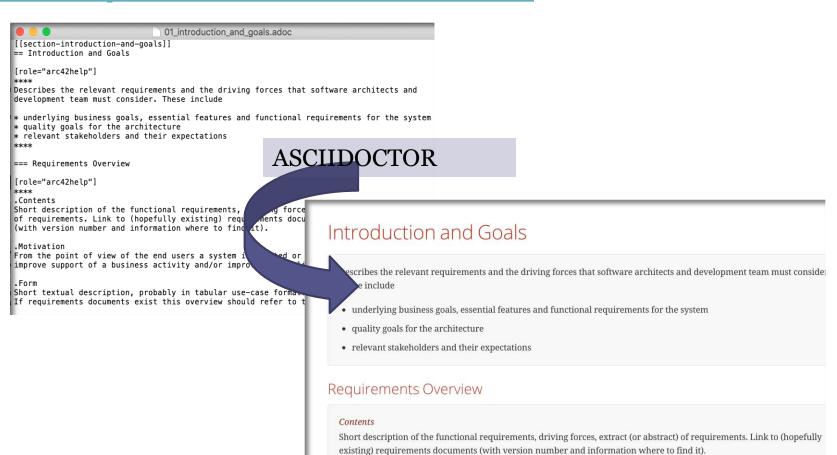
mp Business Context

bikingFX

Collects biking pictures __

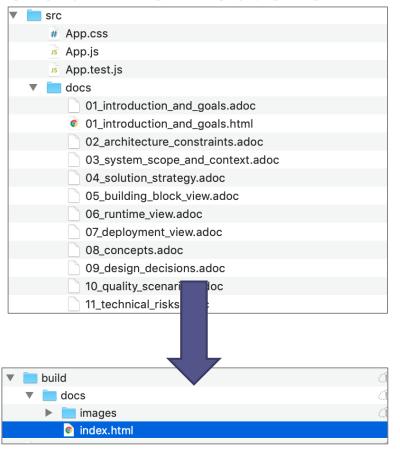
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Templates - AsciiDoc



Motivation

Documentation in Viade



Everything is automated with npm: \$ npm run docs

This will execute:

\$ asciidoctor -D build/docs -a imagesdir=./images -r asciidoctor-diagram src/docs/index.adoc && cp -R src/docs/images build/docs

We need asciidoctor and asciidoctor-diagram installed:

\$ gem install asciidoctor asciidoctordiagram

Lab 02. - Let's practise

- Groups will be divided in 3 groups of 2/3 people each.
- Each group will create a branch in order to work in one part of the documentation:
 - feature_arc42_01introduction
 - feature_arc42_o2contsraints
 - feature_arc42_o3context
- We the group finishes the work, make a Pull Request.
- The other developers should review this Pull Request before merging them into the master branch.
- Everybody contributes in writing the documentation!
- Do not forget to write the minutes!!

If you need help with asciidoc, check this page