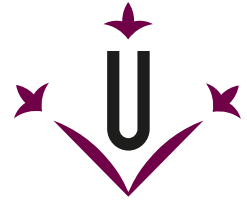


University of Lleida
Computer Engineering
Management and Quality improvement
Marc Gonzàles Capdevila



Deliverable 1

RUXAILAB Landing Page Requirements

Naida Bosnjovic
Zlatan Jakic
Irfan Kuric
Selma Memic
Theo Moreno Lomero

April 1, 2024

Contents

1	Introduction	1
2	Open source organizations	2
2.1	Git	2
2.2	Apache Software Foundation	3
2.3	GNU Project	5
2.4	Django	6
3	Functional Requirements	8
4	Non-Functional Requirements	8
5	Content Requirements	8
6	Git repository	9
7	Django repository	10

1 Introduction

The purpose of this document is to outline the requirements for the landing page of RUXAILAB, we are also going to talk about about some open source organizations, which can be used as inspiration for the landing page. The landing page serves as the first point of contact for potential contributors and users, so it's essential to ensure it meets the project's goals and provides relevant information.

2 Open source organizations

2.1 Git

Introduction

One of the most common version control system is called Git, this VCS is used by many successful projects of all types. The reason behind this is that it is very quick and light-weight.

Git is simple to learn and is designed to make collaborative software development easier by giving development teams the tools and features they need. It is written in different languages like c, ruby, python...

Landing page accessibility evaluation

1. Structural Elements html :

- Footer.
- Navigation.
- Header.
- Unordered list.
- Heading level 3.

2. Contrast Errors:



Figure 1: Very low contrast

3. Alert: Missing first level heading (H1). Headings facilitate page navigation for users of many assistive technologies

4. Errors:



Figure 2: Each image must have an alt attribute

Licence Git

Git uses a GNU General Public License or GPL.

- Freedom of use, distribution, copy and modification.
- Copyleft.
- Compatibility with other licences.

Organization

<https://github.com/git>

2.2 Apache Software Foundation

Introduction

Open source software development and promotion are the primary objectives of the Apache Software Foundation non-profit organisation. A significant number of open source software projects are housed under the **ASF**.

ASF offers a legal framework and infrastructure to support the growth of open software source initiatives.

Landing page accessibility evaluation

1. Structural Elements html :

- Heading level 1..5.
- Unordered list.
- Header.

- Navigation.
- Search.
- Main content.
- Footer.

2. Errors:

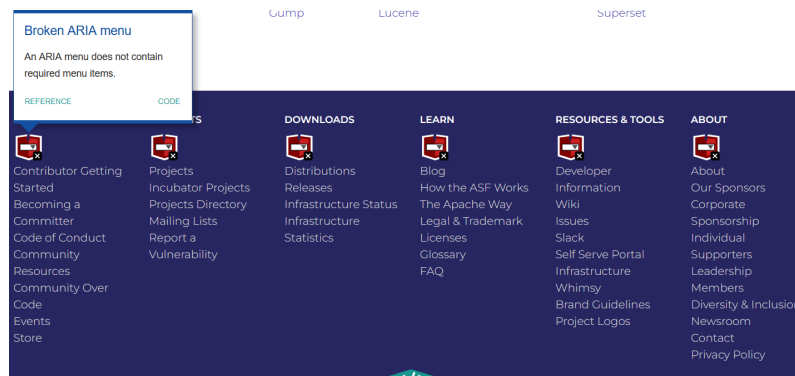


Figure 3: ARIA menus are application menus

3. Alert:

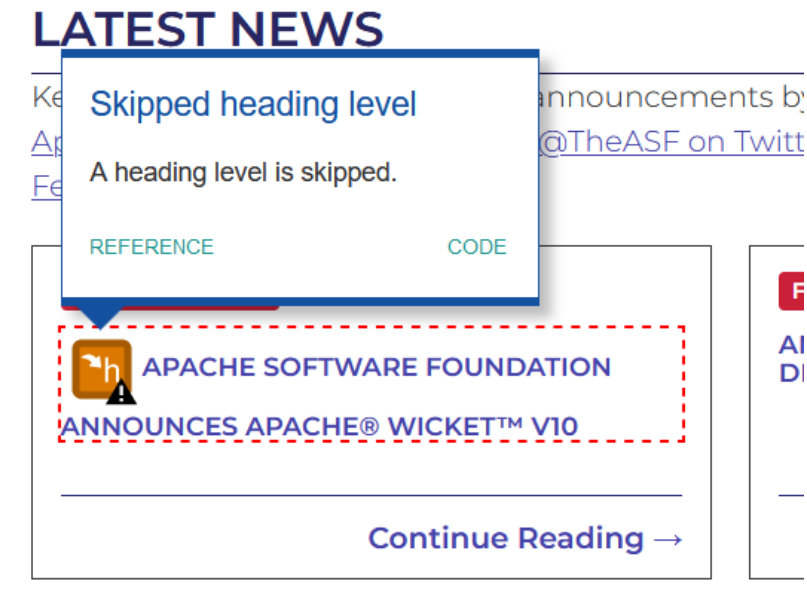


Figure 4: A heading level is skipped

4. Aria elements:

Licence Apache License.



Figure 5: Element role

- Use the program for any kind of use, whether it be business related or not.
- Distribute copies of the program.
- Make changes to the software and share them with others.
- Integrate the program with additional programs.

Organization

<https://github.com/apache>

2.3 GNU Project

Introduction

The primary goal of the GNU project is to develop a whole operating system made completely of free software. The software is free to execute, copy, examine, alter and distribute with or without changes.

First page accessibility evaluation

1. Structural Elements html:

- Heading level 2..4.
- Unordered list.
- Header.
- Navigation.
- Main content.
- Footer.

Summary

The GNU project's website is very simple and for that reason we did not find any errors. We also

need to study their other directories but if they follow the same style the results will be the same as on the main page.

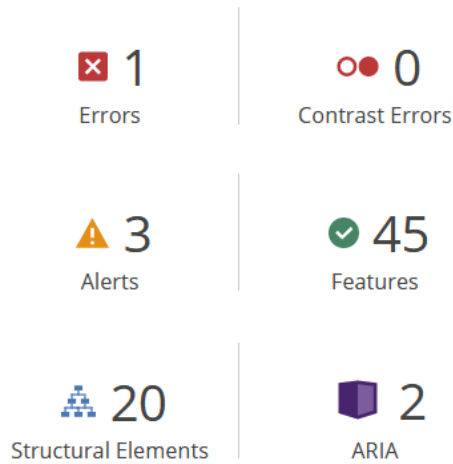


Figure 6: Summary of the page

Licence

GNU General Public License or GPL.

Organization

<https://github.com/gitGNU>

2.4 Django

Introduction

Django is an open-source web framework, it is an effective tool that simplifies the development of intricate and scalable web applications.

Django facilitates web development for users by providing the ability to swiftly and effectively construct web applications using a predetermined framework.

Landing page accessibility evaluation

1. Errors:

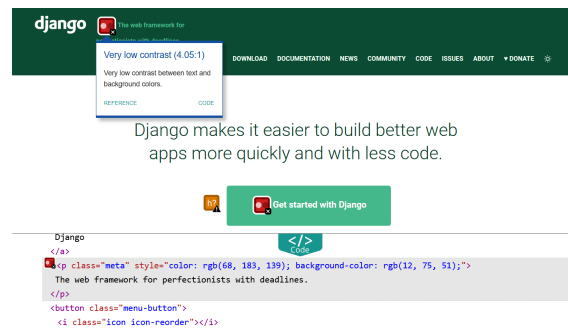


Figure 7: Low contrast

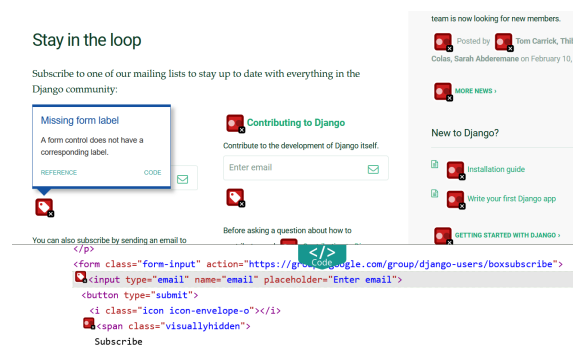


Figure 8: Does not have a correctly associated text label

Licence

BSD 3 clause license.

- Free use: is available for free use in any personal or business enterprise.
- Make changes to the source code and produce derivative creations.
- Distribute the updated and original source code.
- Copyright.

Organization

<https://github.com/django>

3 Functional Requirements

1. Navigation bar: Navbar with links to different sections of the webpage for easy navigation.
2. GitHub: Direct link to the project's GitHub repository for code access and contribution.
3. Related applications: Links to other applications or resources related to the project for additional context or support.
4. Images and videos: Visual media showcasing the application's interface, features, or demos.

4 Non-Functional Requirements

1. Performance: The landing page should load quickly and efficiently.
2. Accessibility: Follow web accessibility guidelines (e.g., WCAG) to make the page usable for all users.
3. Branding: Maintain consistent branding elements (logo, color scheme) across the page.
4. License: Have a documentation and free software license.

5 Content Requirements

1. Installation and usage instructions: Step by step guide on how to install and use the application if applicable.
2. List of achievements: Highlight key milestones or achievements of the project.
3. Roadmap: Timeline of significant events and milestones in the project's development. Highlighting key dates such as project inception, major releases, and community events..
4. List of sponsors: Acknowledgment of sponsors who support the project financially or otherwise.
5. Tools: Information about the tools, languages, and frameworks used in the project's development.
6. Community: List of members involved in the project's development and maintenance.
7. Organisation information: Overview of the open-source organisation, its mission, and goals.
8. Project information and idea: Detailed description of the project, including its purpose, objectives, and proposed solution.

6 Git repository

Score **GPA** (Grade Point Average) got: 3.46.

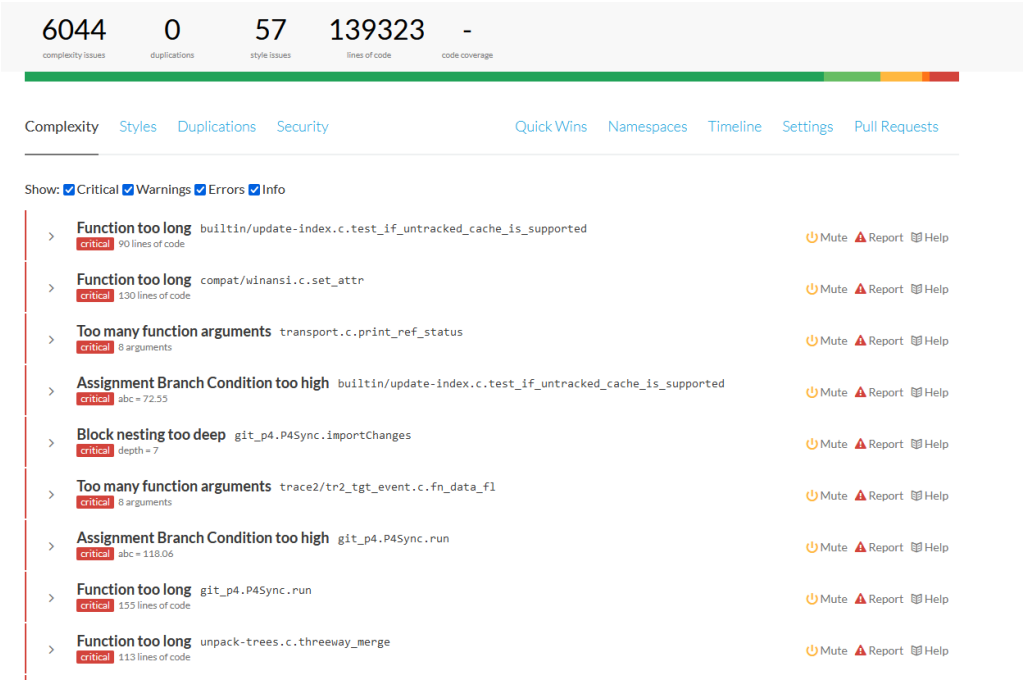


Figure 9: Issues git

In general we can see that this repository has many files and line of codes that need to be improved, this is because the 50% is written in c and the difficulty and complexity is very high. Some issues.

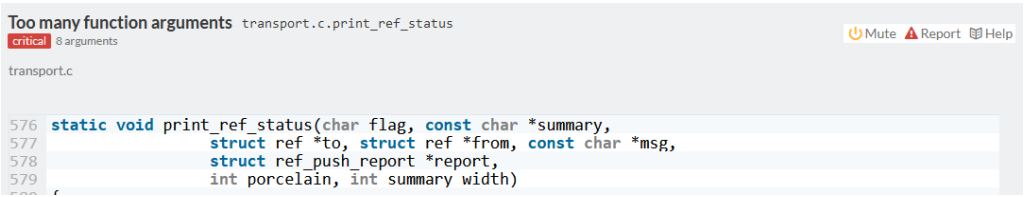


Figure 10: Function arguments

7 Django repository

Score **GPA** (Grade Point Average) got: 3.79.

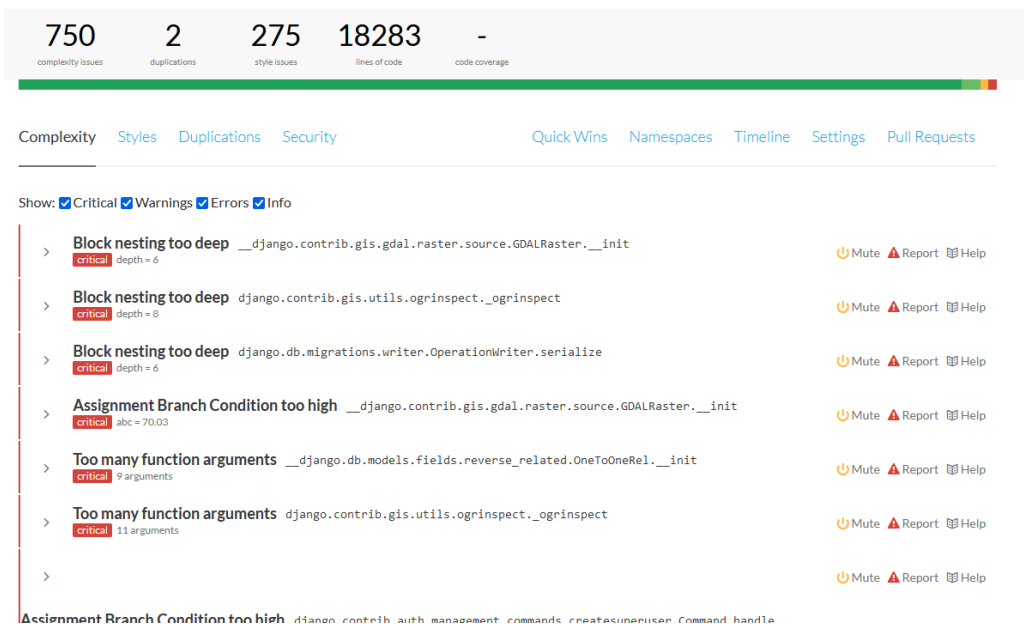


Figure 11: Issues django

Unlike the git repository we can see that the degree of errors is minimum, this is because there are fewer lines of code and it is written in python.
Some issues.

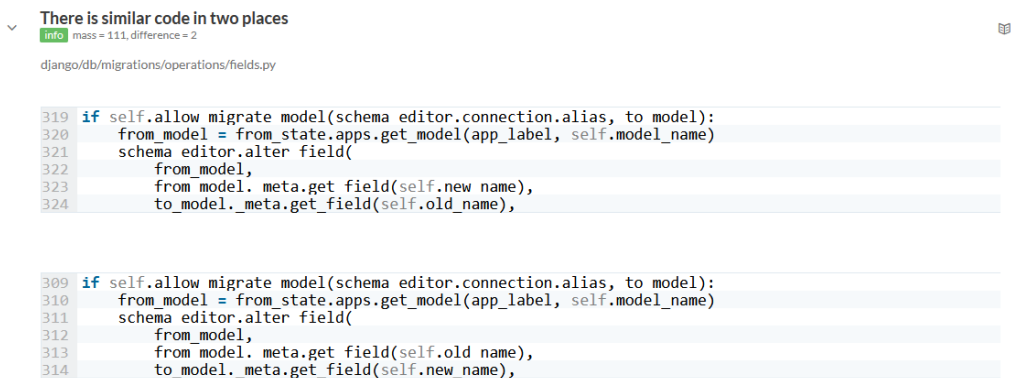


Figure 12: Duplicate code