

IHC – Assignment n.2

Project Title: CAP

Group: Ricardo, João & Miguel

Lab Class: P6



Introduction

1-Brief Contextualization / Motivation

2-Why This Project?

3-Personal Interest



Project Objectives

Define High-level Goals-

1. Create a better application for athletes, coaches and users alike to find the information they want about Portuguese Athletics
2. Create a dynamic navbar with all the links to other pages
3. Create tables where the information is stored and displayed clearly to the user
4. Add options like search bars, sorting options, pagination, so the user can more easily find the information they want to find
5. Create beautiful pages where the user interaction is clearly visible.

What Are the Expected Outcomes?

1. Producing an interactive, simple to use and visually pleasing website for users to find the information about Portuguese Athletics they so desire.
2. Making the user experience all the more enjoyable

What Are the Benefits? -

1. Coaches will now be able to more easily search for specific competitions for their athletes to partake on and then register them.
2. Athletes will be able to more easily view theirs and other athletes' stats throughout the years, and the rankings of each one
3. Athletes and their families will now be able to more easily find the specific competitions that they have taken part of sometime into the past

Personas

Persona - Treinador

- Name: Renato
- Age : 40 Gender:
- Male Location:
- Aveiro Profession: Seller, coach and club manager
- Main motivation and goals:
 - 1.search for the ideal competitions to fit into the training calendar. of each athlete as best as possible, in order to guarantee their maximum performance and the availability of the club's resources.
 - 2.View his athletes rankings and other athletes rankings

Persona - Atleta

- Name: Tomás
- Age : 17
- Gender: Male
- Location: Aveiro
- Profession High school student
- Main Motivations and goals:
 - 1.Easily find and view not only his statistics and national ranking in his different sports, but also those of other athletes, so he can have an idea of his current position.
 - 2.Being able to easily find competitions that he has participated in the past, and then view the relevant information, namely what marks he did in the past and who were his opponents

Scenarios

- Scenario 1 – Coach looks for competitions with the ideal conditions to register his athletes at different levels, namely the date, the place where the tests will be held and what type of competition it is and which opponents he expects to appear there.
- Scenario 2 – Athlete finds his own statistics and rankings and those of other athletes
- Scenario 3 – Athlete finds a competition that he has participated on a long time ago.





Tasks

1

Coach finding the ideal competition to register his athletes

2

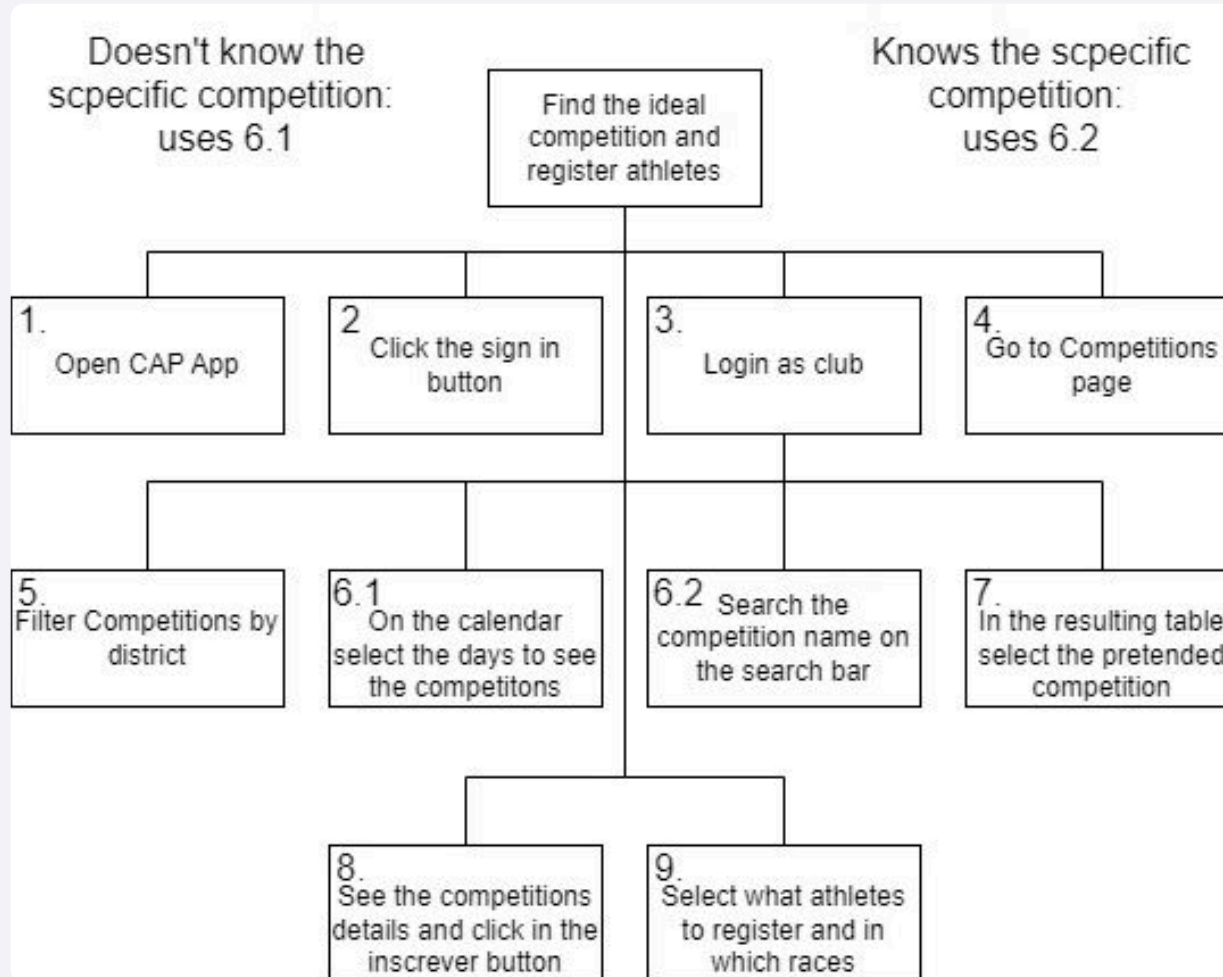
Athlete finds his own statistics and those of other athletes

3

Athlete finds a competition that he has held for a long time.

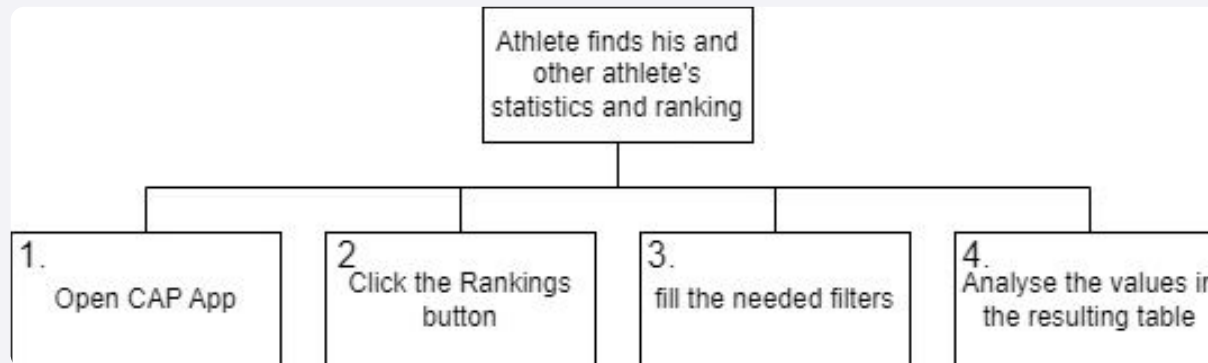
Task 1 Diagram

Coach finding the ideal competition to register his athletes



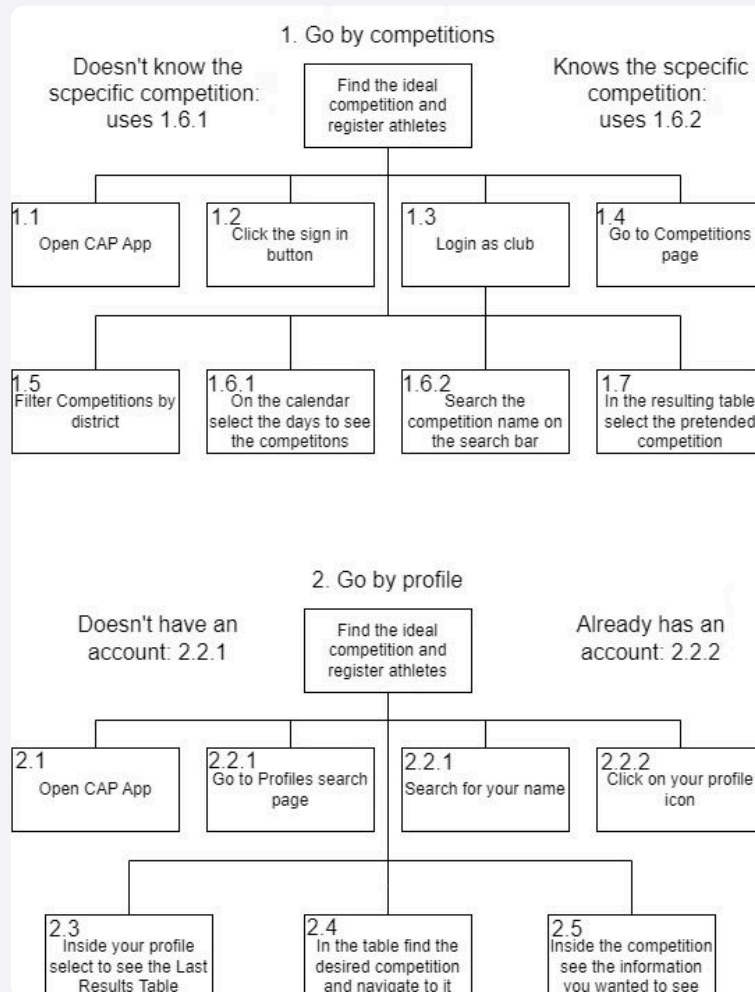
Task 2 Diagram

Athlete finds his own statistics and those of other athletes



Task 3 – Diagram

Athlete finds a competition that he has held for a long time.



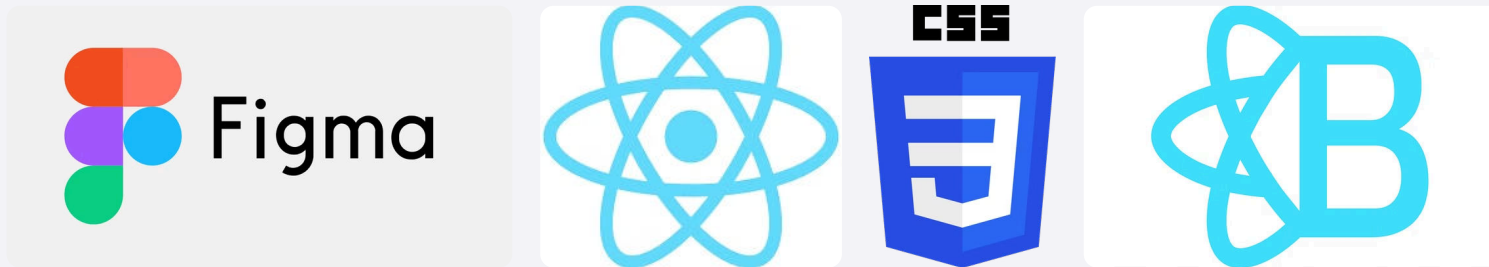
Requirements

Non Functional	Functional
•Usability	Create the Data needed for the various tables
•Easy to use	Add a carousel to main page
•Easy to learn	Add a go back to button in the top of page
•Responsive	Create the navbar with the button links to all the other pages
•Aesthetic and Minimalist Design	Add link connections in the tables for the name 'João Coelho'
	Add link connections in the table for the club 'SCP'
	Calendar with visual representation of competition days
	Create the various tables
	Add sorting options to all the columns.
	Add Search bars and pagination for competitions, athlete's, clubs and finally athlete's rankings information
	Add the default component to appear when the user search doesn't return any value
	Add filters for the rankings
	Add filters for competitions
	Make a stylish graph to show the values of an athlete's progression
	Add a register and login option for users
	The login function can be for clubs or for athletes
	Add error detection for the filling of the account creation or login forms to make sure for valid inputs
	Add styles and icons to the register login pages
	Create a footer and add CSS to make sure it always stays at the bottom of the page even if the page is not filled with nothing else
	Create a CSS style common across all pages that displays the information in a clear and well-organized manner

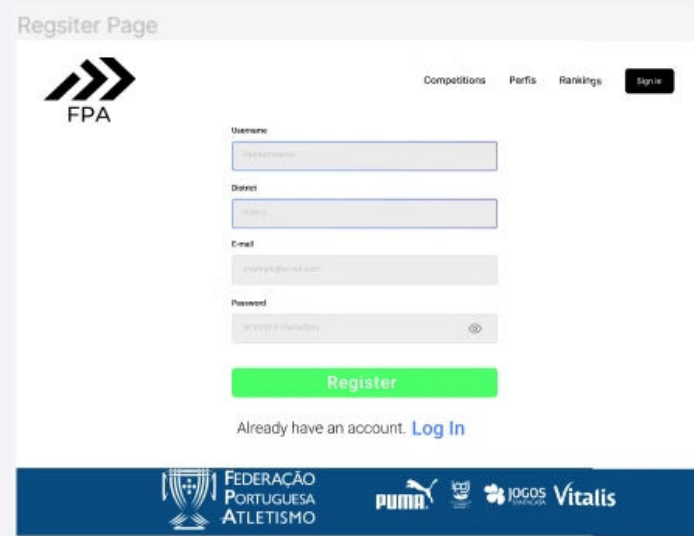
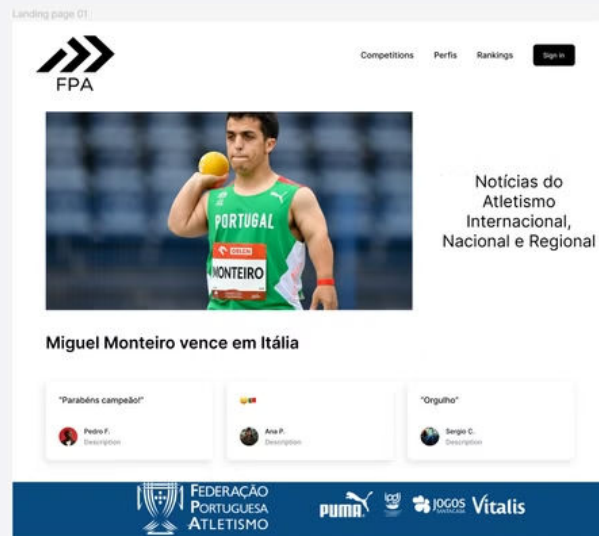
Technologies used

The low-fidelity prototype was created using Figma.

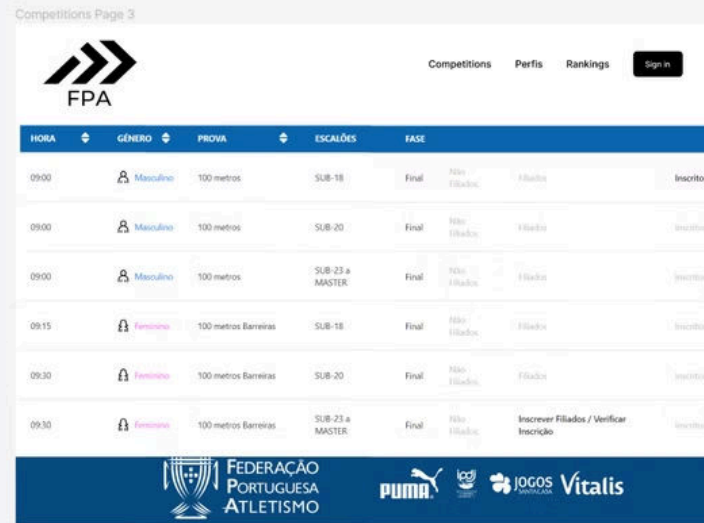
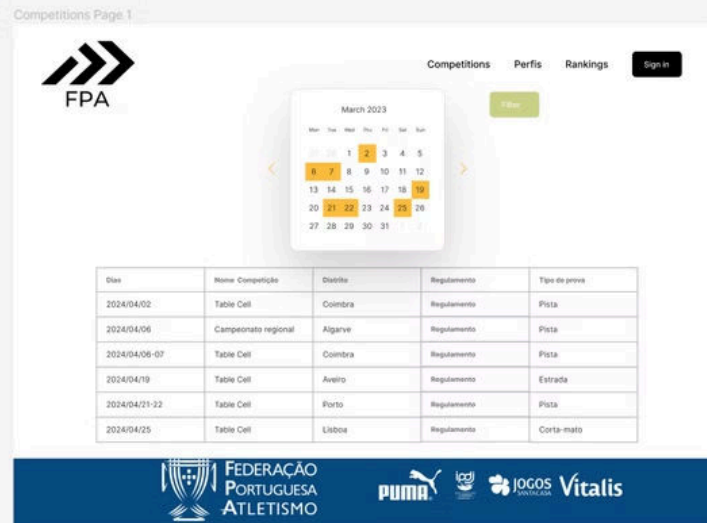
For the high-fidelity prototype construction, we used various technologies such as React, CSS, React-Bootstrap.



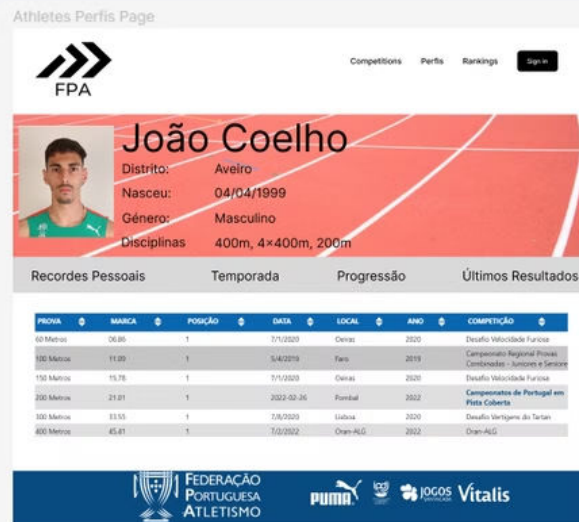
Low fidelity Prototype



Low fidelity Prototype




Low fidelity Prototype



Low fidelity Prototype

Athletes RankingsPage



Competitions

Perfis

Rankings

Sign in

Escalões

Todos

Género

Masculino

Prova

60 Metros

Ano

2024

Associações


Todas


Procurar


Apenas marcas com vento regular☐


Apenas uma marca por Atleta☒


Rank	Marca	Nome	Escalão	Clube	Classe	Local	Vento	Data
1	6.66	Carlos Cruz	SEN	SCP	1	Pombal	+0.2	2024-02-17
2	6.70	João Mário	SEN	SCP	1	Pombal	-0.1	2024-02-10
3	6.72	João Silva	SUB-23	SLB	2	Pombal		2024-02-17
4	6.79	Ricardo Santos	SEN	SLB	1	Braga		2024-01-15
5	6.89	António Cruz	SEN	SCP	3	Pombal		2024-02-17
6	6.89	Mário Antunes	SUB-23	SLB	1	Braga		2024-01-12

FEDERAÇÃO
PORTUGUESA
ATLETISMO

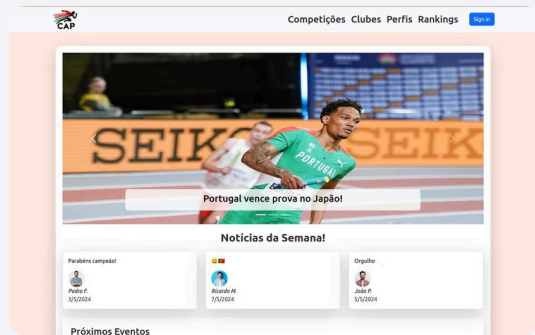
PUMA

LGD

JOGOS
SANTACASA

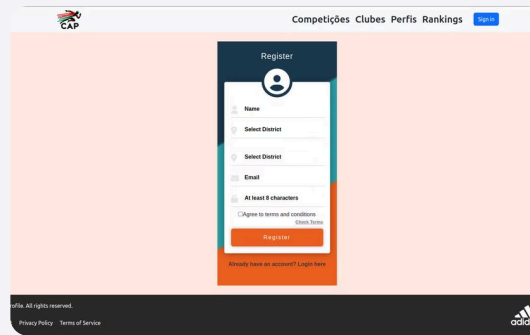
Vitalis

High fidelity Prototype



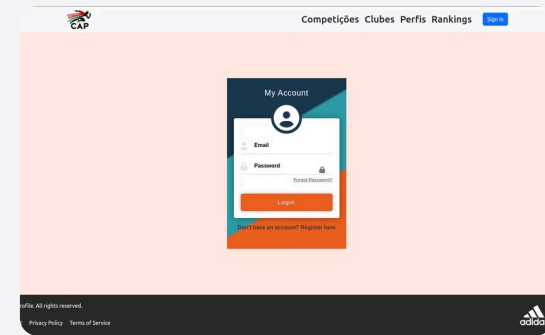
Main Page

The main page will serve as the entry point for users, where they can access general information about the application and its main functionalities.



Registration Page

Users will be able to create an account on the application through this page, ensuring access to personalized functionalities..



Login Page

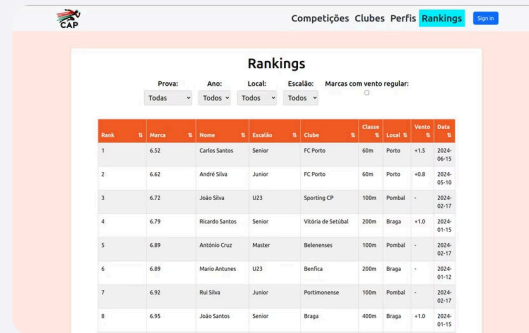
Users will be able to log in with an account on the application through this page.

High fidelity Prototype



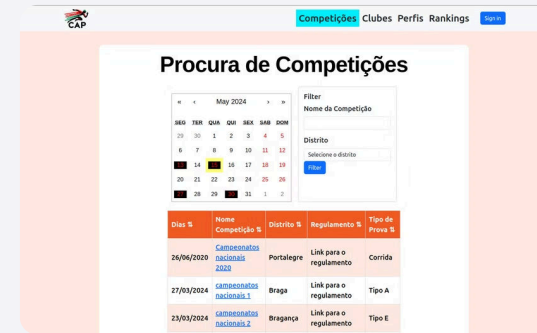
Club Profile Page

Each athlete will have a profile page where detailed information about their performance and competition history can be viewed.



Athlete Ranking Page

Users will be able to access athlete rankings, allowing them to track the progress and evolution of the top athletes.



Competition Search Page

On this page, users will be able to search for and find information about the different competitions organized by the CAP.

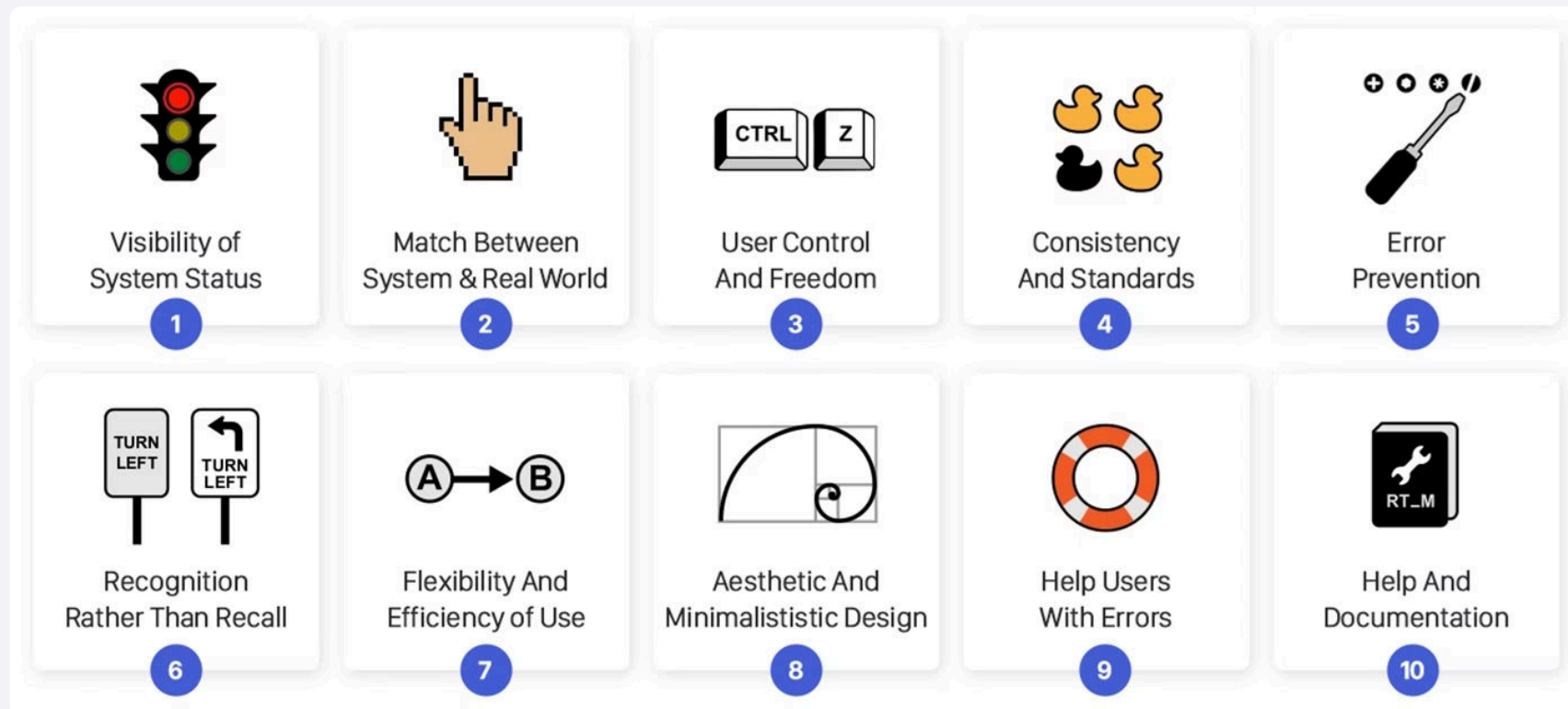
Methods of evaluation used

For the prototype evaluation, we employed a Heuristic Evaluation approach ourselves and beyond that, devised two usability questionnaires for 5 individuals/users to assess our prototype.

One questionnaire focused on the ease of performing tasks within the prototype, while the other, administered after completing these tasks, inquired about the overall usability of the prototype.

How did a Heuristic evaluation

We conducted a Heuristic Evaluation similar to the one on the 1st Assignment website for the high-fidelity prototype, where we analyzed the prototype based on the 10 Usability Heuristics. And we build Potrototype HE - Table for more significant results.

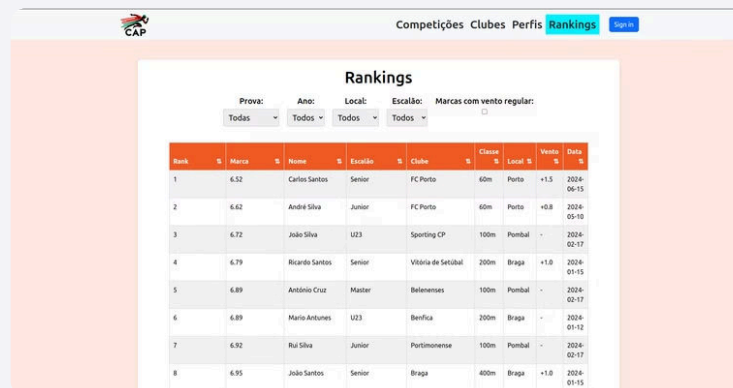


Heurisitic evaluation

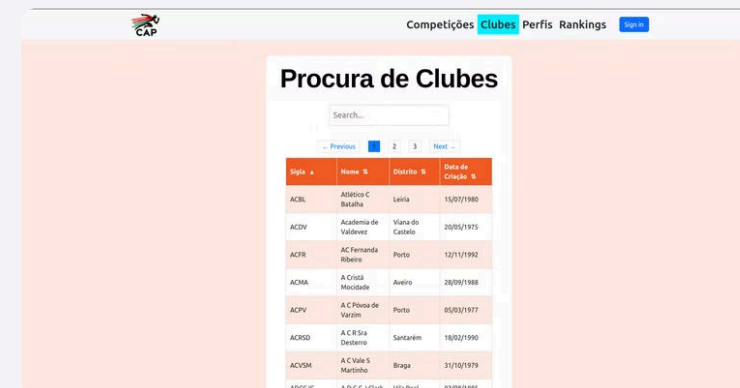
Issue - Incompatibility of tables in the prototype

Heurisitic- Consistency and Standards

Severidade-2



Rank	Marca	Nome	Escalão	Clube	Classe	Local	Vento	Data
1	6.52	Carlos Santos	Senior	FC Porto	60m	Porto	+1.5	2026-06-15
2	6.62	André Silva	Junior	FC Porto	60m	Porto	+0.8	2026-05-10
3	6.72	João Silva	U23	Sporting CP	100m	Pombal	-	2026-02-17
4	6.79	Ricardo Santos	Senior	Vitória de Setúbal	200m	Braga	+1.0	2026-01-15
5	6.89	António Cruz	Master	Belénenses	100m	Pombal	-	2026-02-17
6	6.89	Mário Antunes	U23	Benfica	200m	Braga	-	2026-01-12
7	6.92	Rui Silva	Junior	Portimonense	100m	Pombal	-	2026-02-17
8	6.95	João Santos	Senior	Braga	400m	Braga	+1.0	2026-01-15



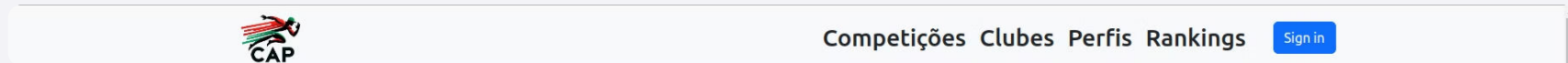
Sigla	Nome	Distrito	Data de Criação
ACBL	Associação C. Batalha	Leiria	15/07/1980
ACDV	Academia de Valdevez	Viana do Castelo	20/05/1975
ACFR	AC Fernanda Ribeiro	Porto	12/11/1992
ACMA	A Crisga Moçidade	Aveiro	28/09/1988
ACPV	A C Povo de Varzim	Porto	05/03/1977
ACRSD	A C R Sra Desterro	Santarém	18/02/1990
ACVSM	A C Vale S. Marinho	Braga	31/10/1979
ADCCJC	A D C C J Clark	Vila Real	02/08/1985

Heuristics evaluation pt. II

Issue - Lack of a "Back Button"

Heuristic - User Control and Freedom

Severity - 4

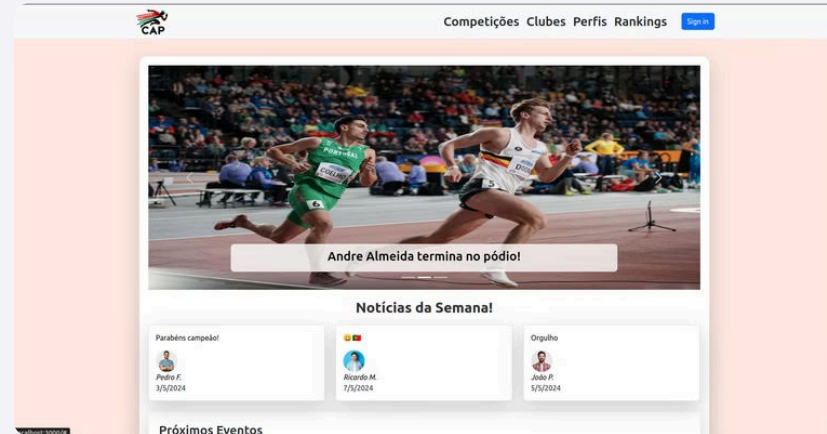
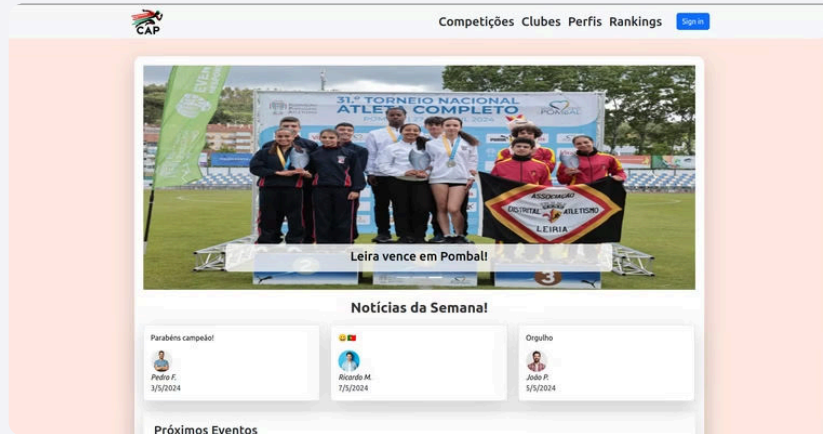


Heuristic evaluation pt. III

Issue - Comments don't change according to the news.

Heuristic - User Control and Freedom

Severity - 4



Potrotype HE - Table

	Ricardo	Miguel	João	Média
"Back" button doesn't exist.	4	4	4	4
The calendar has errors.	3	4	4	4
Comments don't change according to the news.	3	2	3	3
Table incompatibility.	2	4	3	3

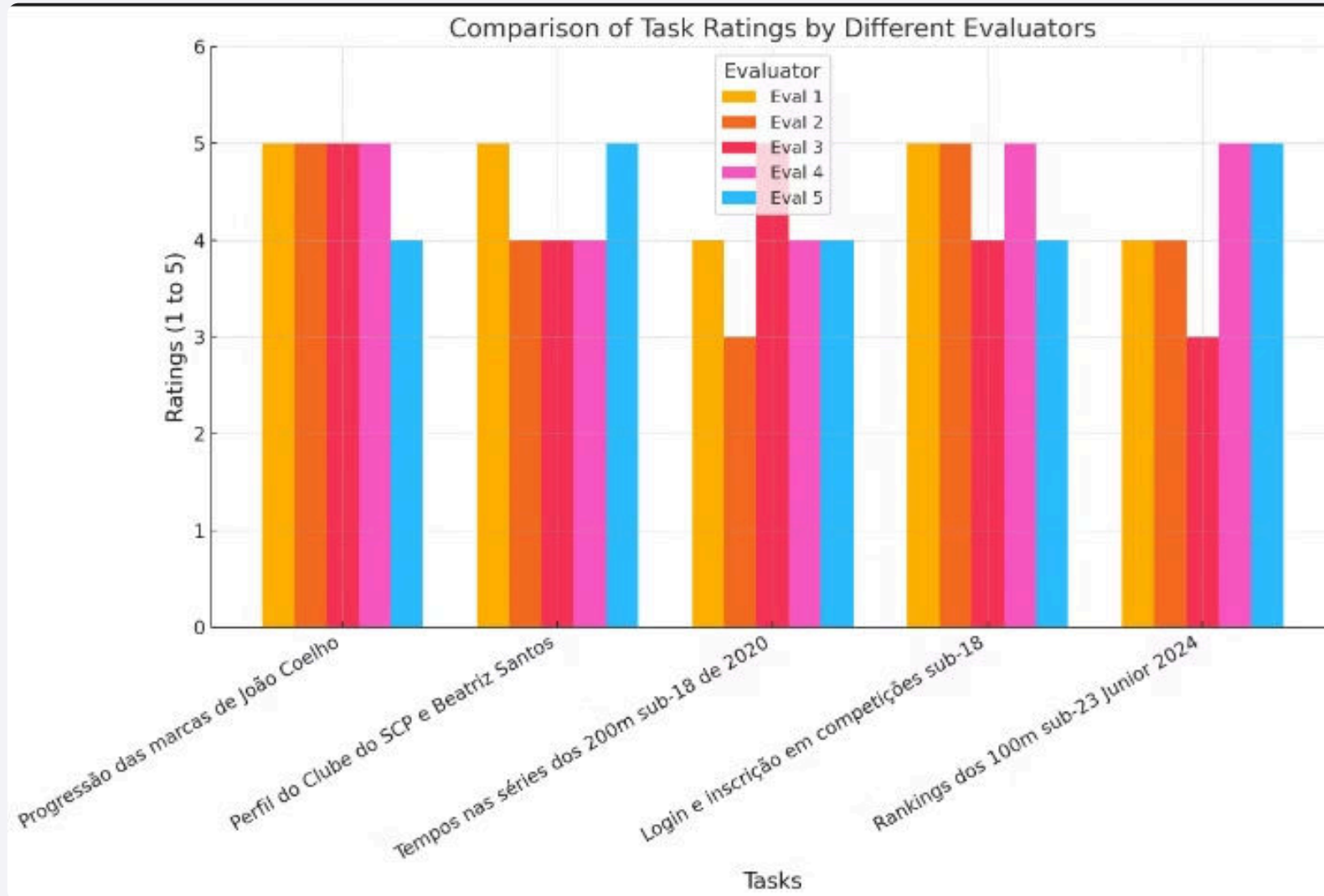
0-Not a Problem 1-Cosmetic Problem 2-Minor Usability Problem 3-Major Usability Problem 4-Usability Catastrophe

User Evaluation tasks

User evaluation tasks

- 1- View the progression of the top marks for athlete João Coelho.
- 2- Access the profile of SCP Club and find athlete Beatriz Santos.
- 3- Access the times achieved in the different heats at the 2020 national sub-18 (Junior) championships in the men's 200 meters event.
- 4- Log in to the site as a Club and find the upcoming competition for the national sub-18 (Junior) championships, and register my club's athletes for the 200 meters and 800 meters events.
- 5- Access the rankings page and view the rankings for the 100 meters event in the sub-23 (Junior) category for the year 2024 for all districts.

User evaluation – Graphs with the values in each



Pos questionere - Questions

After completing the tasks and the user evaluation, the 5 users responded to these questions:

Q1: I think that I would like to use this system frequently.

Q2: I found the system unnecessarily complex.

Q3: I thought the system was easy to use.

Q4: I think that I would need the support of a technical person to be able to use this system.

Q5: I found the various functions in this system were well integrated.

Q6: I thought there was too much inconsistency in this system.

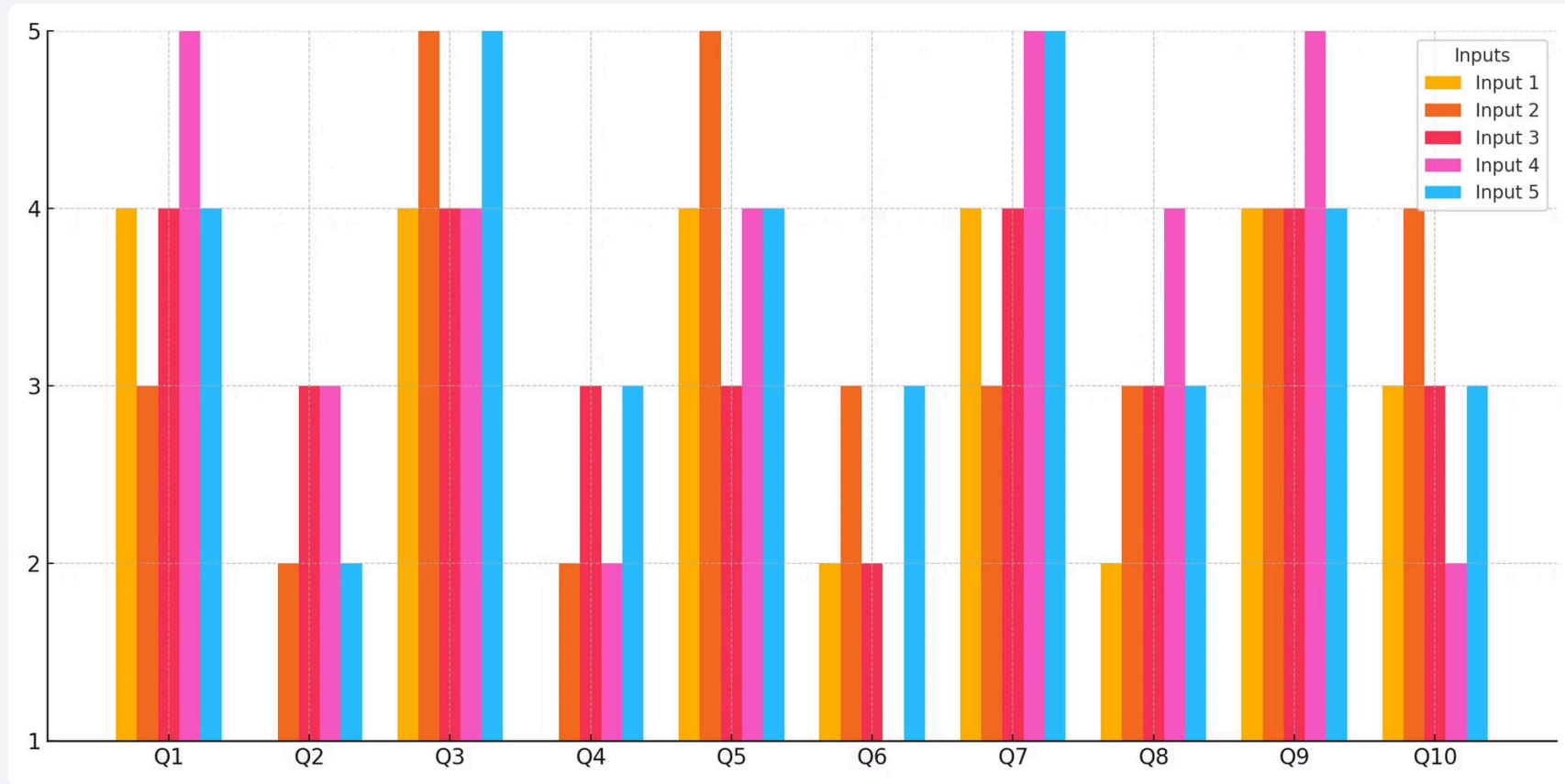
Q7: I would imagine that most people would learn to use this system very quickly.

Q8: I found the system very cumbersome to use.

Q9: I felt very confident using the system.

Q10: I needed to learn a lot of things before I could get going with this system.

Pos questionere



Scale: 5 - Totally agree to 1 - Totally disagree

DEMO



Next Steps – Things we might still add until delivery day

- Add a feature that allows users to compare their marks to peers or other athletes
- Implement a notification system that sends alerts to clubs when registration for upcoming competitions opens.
- Improve table responsiveness for smaller screens

Team Effort:

Miguel-2/7

João-2/7

Ricardo-3/7

Results/Conclusion

Project's best Features:

- Enhanced navigation with a dynamic navbar.
- Clearer information presentation with improved tables.
- User-friendly features like search bars, sorting options, and pagination.
- Visually appealing design and consistent user interaction across all pages.

Features Still to Upgrade:

- Create compatible and attractive styles for all pages to improve responsiveness and flexibility for different screen sizes.
- Develop a calendar to visually display competition days and integrate with other functionalities and page styles.

Final Conclusion: We have successfully created a more user-friendly website that makes it easier to find information about Portuguese athletics. This enhancement benefits athletes, coaches, and users by providing a more intuitive and enjoyable browsing experience.