SOFTWARE ENGINEERING REPORT

6Packro

ESILV 2023-2024

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SUMMARY - INTRODUCTION

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INTRODUCTION - MAIN LINES OF THE BRD

INTRODUCTION

Who is 6packro?

We are a team of 3 engineering students in data and artificial intelligence who developed a fitness website for a software engineering project. The aim of the project wasn't to finalize and have a perfectly working website, but instead we had to focus on finishing the conception of the project using SCRUM agile method and develop part of the software.

What is 6packro?

6packro is a user-friendly fitness website. It should include at least a workout page, food page and blog page:

Our users would have access to different fitness exercises to create a workout plan on the workout page: we added in the beta version different exercises our users could select in function of the body part they want to train.

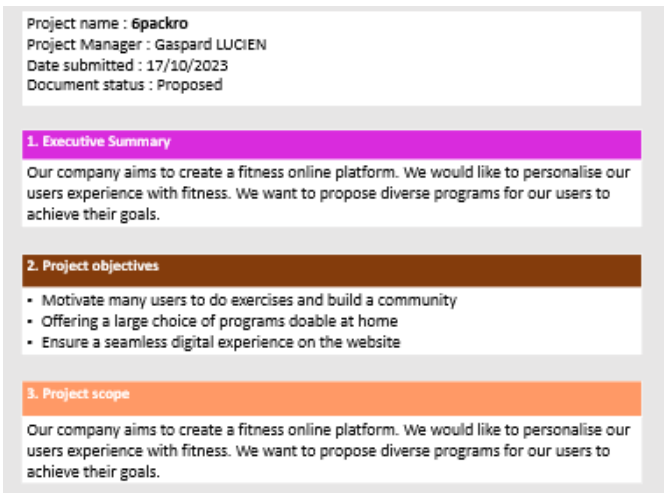
Our users would also have access to different meals on the food page to create a nutrition plan: we added different healthy our users could select.

We wanted 6packro to be innovative and unique as we know that many well-developed fitness websites already exist. That is why we imagined the community space or the "blog". Our idea behind this comes from a discussion we had, saying that working out with others as a group is way more motivating and joyful than working out alone.

So, our Users will be able to post their workout and or meal plans on the blog page. They will be able to see, follow and react or comment other users plans, which will make the website interactive and fun and hopefully attract many users to build a community.

MAIN LINES OF THE BRD AND SRS

a) main Lines of the BRD



Project name : **6packro**
Project Manager : Gaspard LUCIEN
Date submitted : 17/10/2023
Document status : Proposed

1. Executive Summary

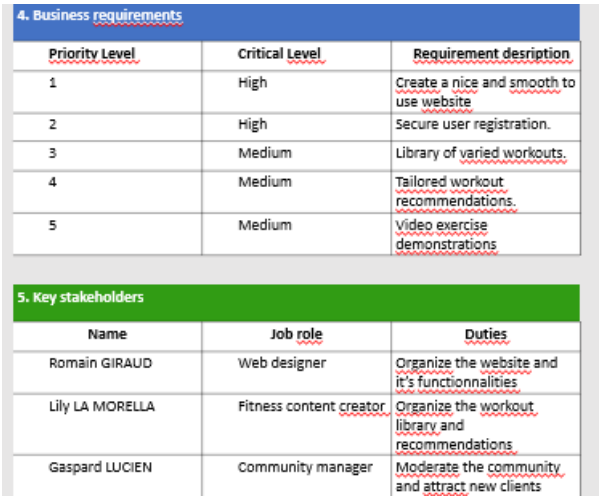
Our company aims to create a fitness online platform. We would like to personalise our users experience with fitness. We want to propose diverse programs for our users to achieve their goals.

2. Project objectives

- Motivate many users to do exercises and build a community
- Offering a large choice of programs doable at home
- Ensure a seamless digital experience on the website

3. Project scope

Our company aims to create a fitness online platform. We would like to personalise our users experience with fitness. We want to propose diverse programs for our users to achieve their goals.



4. Business requirements

Priority Level	Critical Level	Requirement desription
1	High	Create a nice and smooth to use website
2	High	Secure user registration.
3	Medium	Library of varied workouts.
4	Medium	Tailored workout recommendations.
5	Medium	Video exercise demonstrations

5. Key stakeholders

Name	Job role	Duties
Romain GIRAUD	Web designer	Organize the website and it's functionnalities
Lily LA MORELLA	Fitness content creator	Organize the workout library and recommendations
Gaspard LUCIEN	Community manager	Moderate the community and attract new clients

MAIN LINES OF THE BRD AND SRS

6. Project constraints

Constraint	Description
Timeline	The software must be operational before 2024
Budget	As only stakeholders, we need to pay everything from our pockets.
Market competition	There are various platforms that propose fitness exercises, we need visibility

7. Cost-benefit analysis

Cost	Benefit
Server	Permit the users to access the website and have an account
Fitness manager	Have a competitive selection of exercises and workout plans forever
Moderators	Permit the users to cooperate in a friendly environment → brings more users
Total cost = $3000/month	**Expected ROI** = $4000 /month

8. Benchmark

Many websites already exists in which you can find some complete and personalizable fitness programs like Freeletics, carnet de musculation hercule, nike training club that each have their advantages and disadvantages. However, a website where the people can create their own workouts based on different exercices, share it or inspire themselves from other users workout would be the first in it's genre.

9. Marketing

Targeted audience : fitness enthusiasts, health-conscious individuals, novices, experienced athletes, trainers, and coaches, and those looking to be part of an active fitness community.

To touch this audience, we plan to make some collaborations with social media influencers.

b) Main lines of the SRS

- **Product Scope**: The benefits, objectives, and goals of "6packro" include improving user fitness and health through personalized workout and nutrition plans, offering convenient access to fitness resources, and fostering a strong user community.

- **Product Value:** The audience will find value in personalized fitness guidance, convenience, community support, educational resources, and a user-friendly experience.

- **Intended Audience**: "6packro" targets a diverse audience, including fitness enthusiasts, health-conscious individuals, novices, experienced athletes, trainers, coaches, and those seeking an active fitness community.

- **Intended Use:** The product aims to provide a comprehensive online platform for users to achieve fitness goals, manage nutrition, track progress, access personalized plans, and engage with a fitness community.

- **General Description**: This includes various functions like user registration, workout plans, nutrition tracking, community engagement, educational resources, progress tracking, user support, and features such as a user-friendly interface, social features, educational resources, performance tracking, and secure data management.

- **Functional Requirements**: These cover user registration, personalized profiles, workout plan generation, nutrition tracking, community features, educational resources, progress tracking, user support, design requirements, and graphical requirements.

MAIN LINES OF THE BRD AND SRS

- **External Interface Requirements**: These involve user interface requirements like screen layouts, style guides, user experience considerations, hardware interface requirements, network requirements, communication protocols, software interface requirements, and communication interface requirements.

- **Non-functional Requirements**: This includes security, privacy, data protection, capacity and storage needs, compatibility, reliability, scalability, maintainability, usability, other requirements like minimum hardware, critical failure time, expected workloads, continuous integration, user-friendly design, performance optimization, accessibility, geographical availability, and backup and disaster recovery plans.

Notice that the whole SRS is visible on the TD3-pdf of our group.

JIRA PRESENTATION

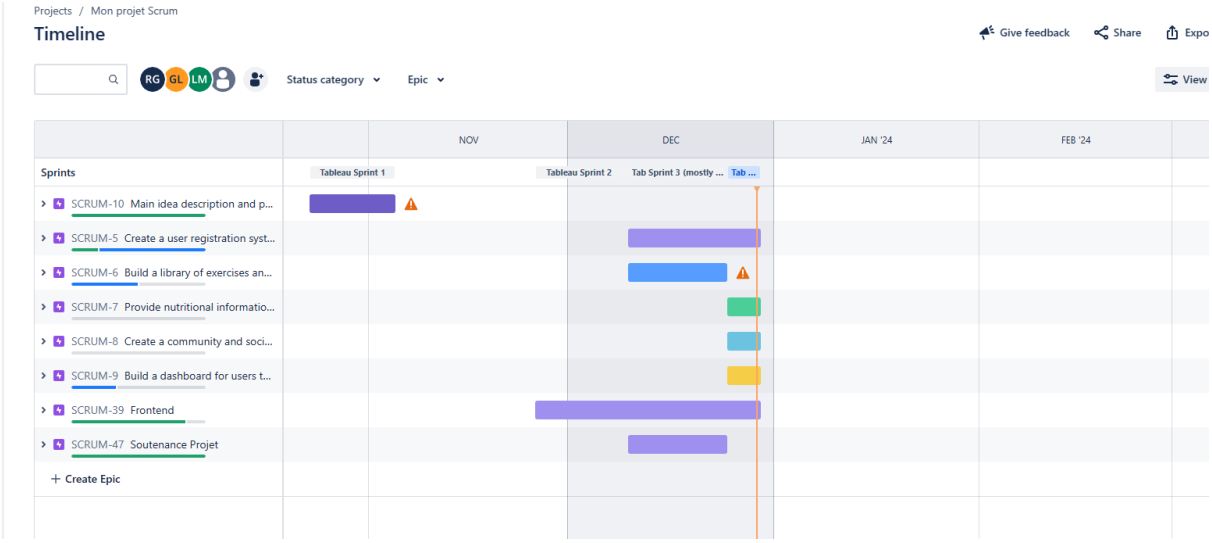
We utilized Jira as a project management tool, as required for our project. We defined our sprints to be two weeks long and completed a total of three sprints, each focusing on a different aspect of the project (details below).

The task distribution went smoothly, owing to our familiarity with each other and our experience working together on other projects (past and still ongoing projects). The attached screenshots from our Jira board provide a clearer view of the task allocation, but we can confirm that the workload was evenly distributed among the group members. Gaspard was the main coordinator of the front-end, Lily was the main coordinator of the back-end and Romain was the main coordinator of the presentations and reports. Notice that everyone played a role in every part (Romain and Lily helped for the front end, Gaspard and Romain helped for the back-end and Gaspard and Lily helped for the report and presentation).

We also devoted effort to conducting sprint retrospectives during and after each sprint. These retrospectives were focused on highlighting the strengths and weaknesses of our work approach to be more efficient during the next sprint (more information below).

Now we will give you a global view of the Jira before detailing each sprint:

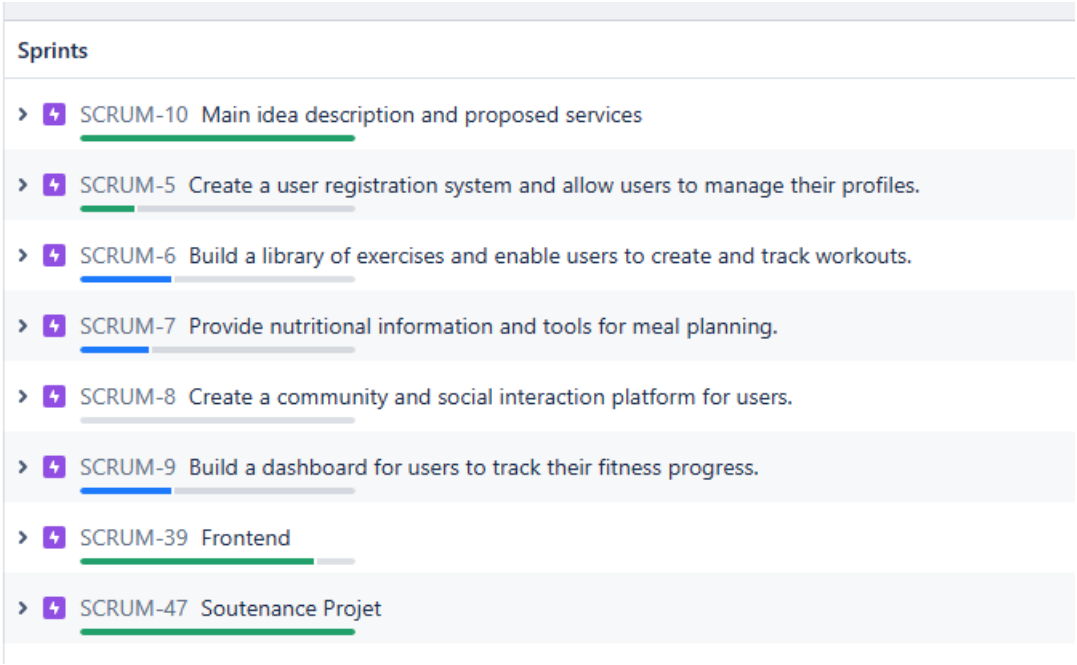
Global timeline view of the project:



We can see that that each sprint lasted 2 weeks and the hole between the first and the second sprint can be explained by the waiting for information about the project. We then went on immediately on the 3rd sprint after the 2nd one.

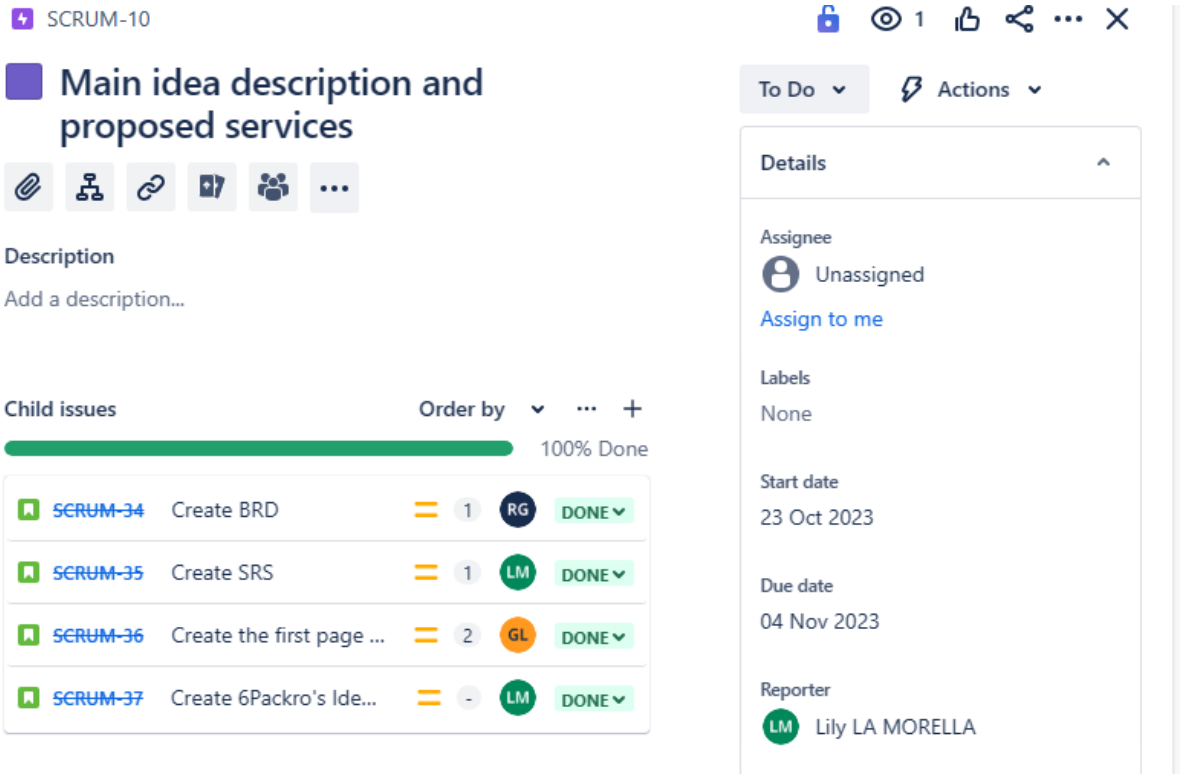
JIRA PRESENTATION

our 8 different epic stories we divided in over 40 user stories:



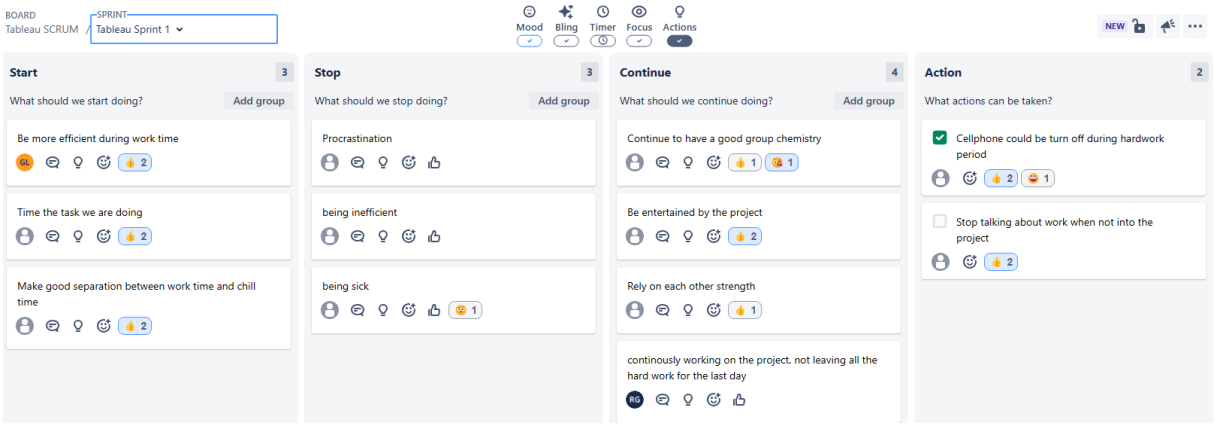
1st sprint (23/09 - 04/11):

We focused during this sprint on initializing the project: creating a strong basis with the BRD and SRS as well as the first page of the website.



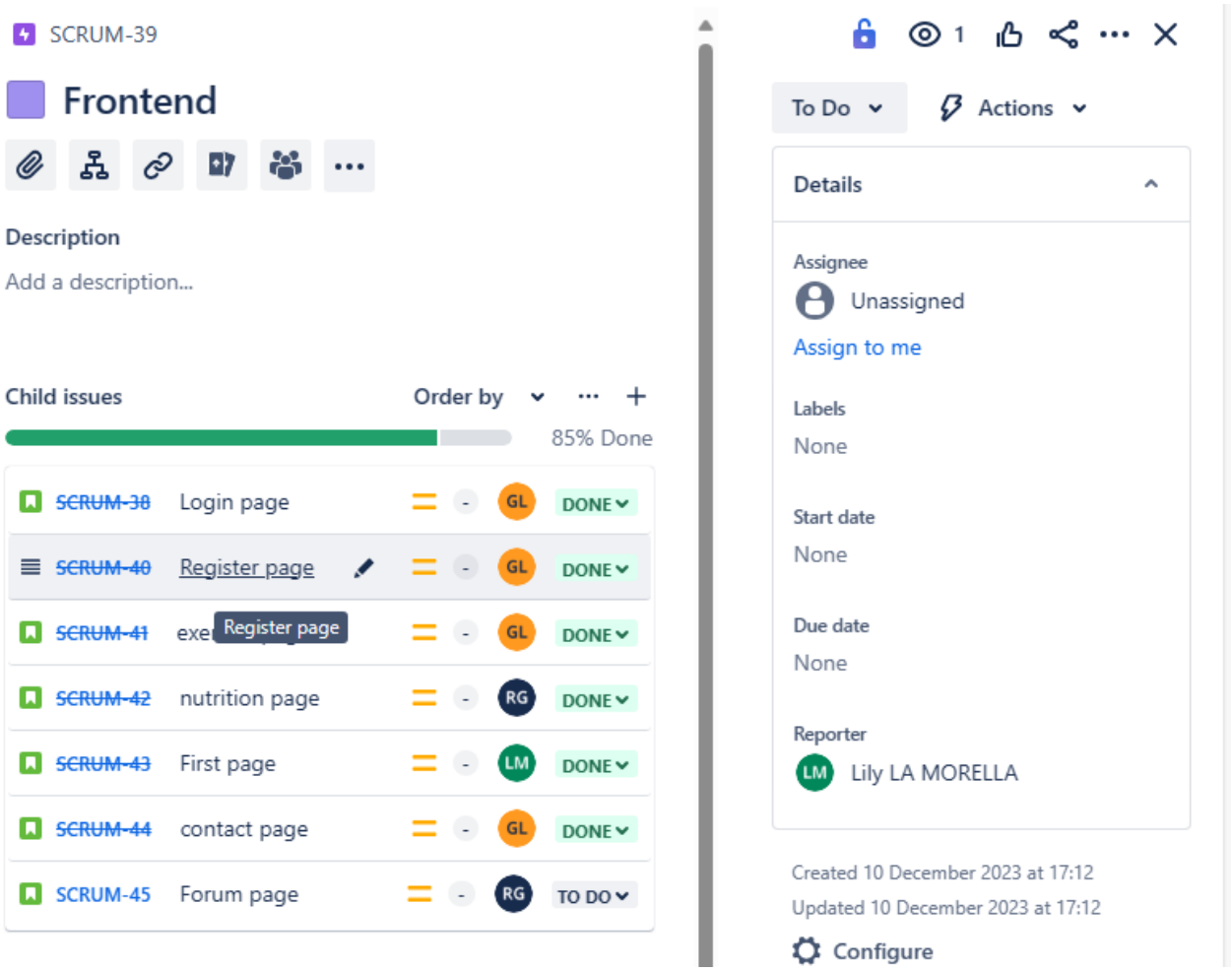
JIRA PRESENTATION

Sprint retrospective:



2nd sprint (26/11 - 10/12):

We focused during this sprint on the front-end of our website. We aimed to make it well designed and simple to use but. We can see in the user stories the different pages we've created. We decided not to code the blog page for the beta version as it is a considerable amount of work and focused on the rest.



JIRA PRESENTATION

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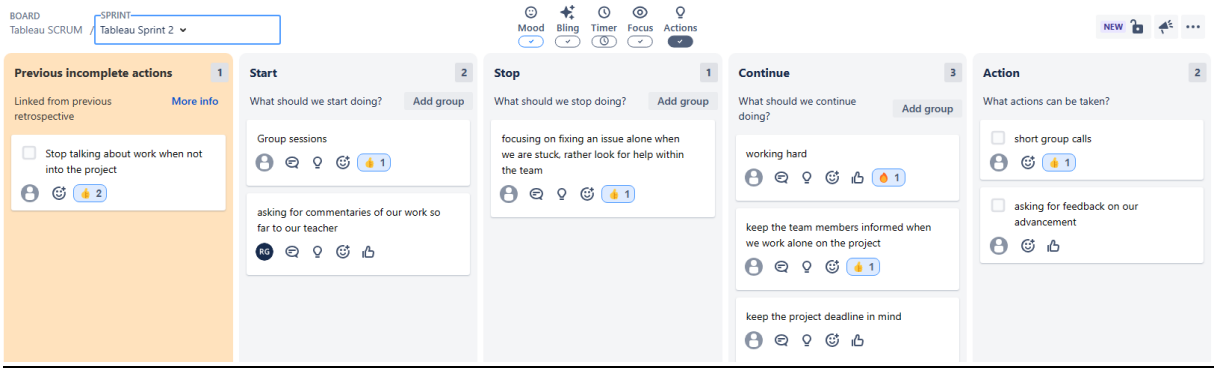
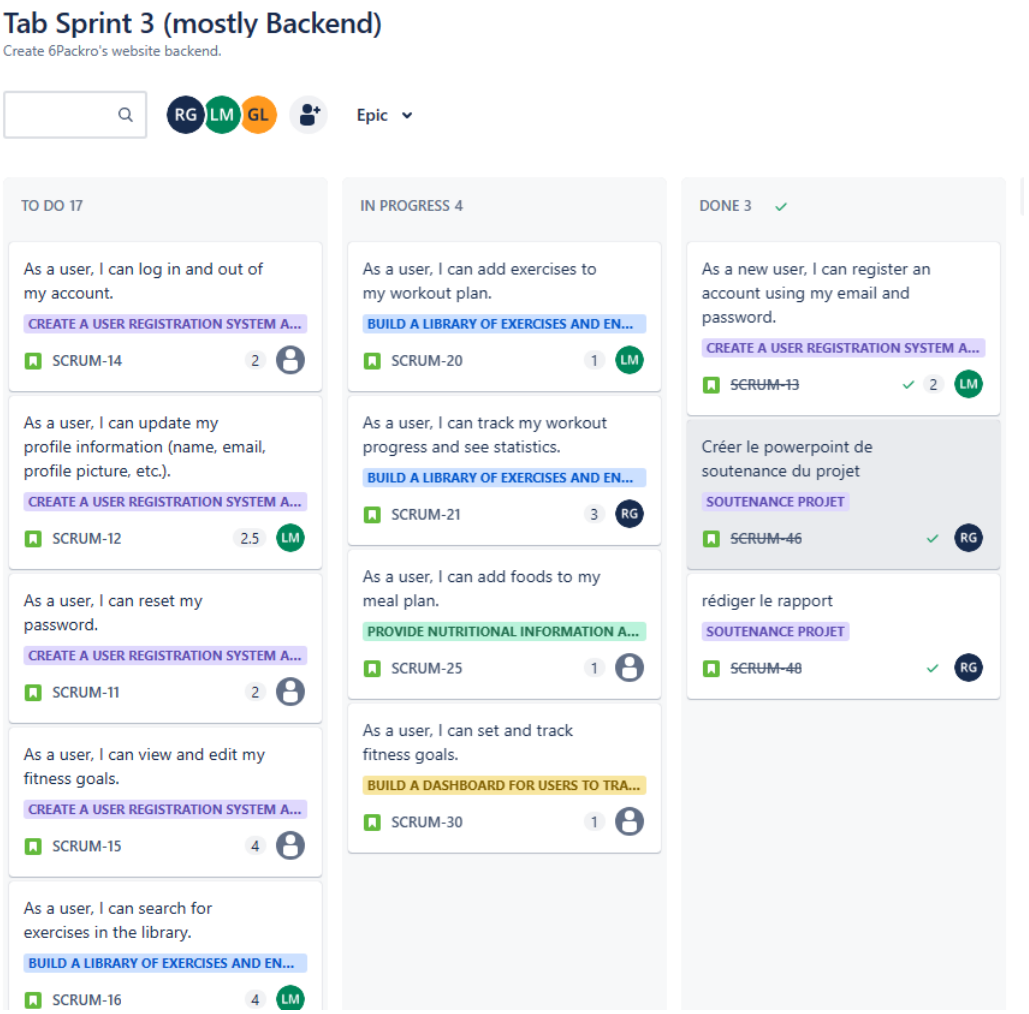


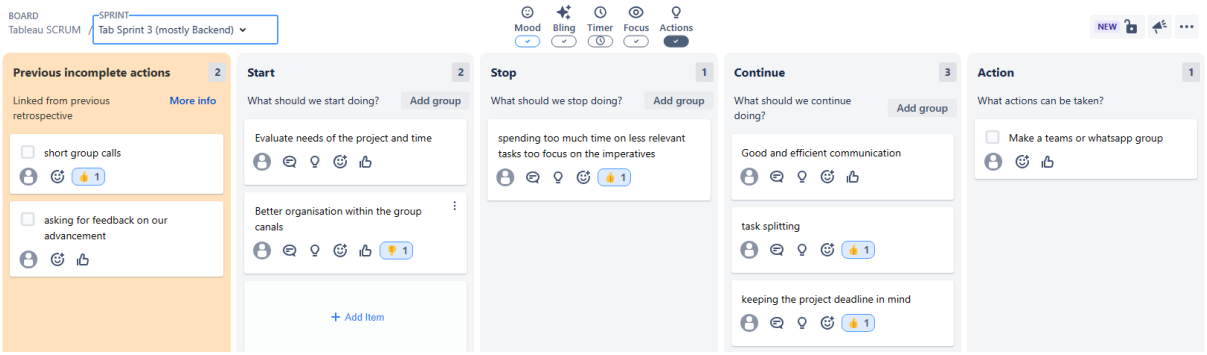
3rd sprint (10/12 - 24/12):

During this sprint, we focused on the back end of the website. We didn't finish every user story but managed to create a large part of it (more details on the Jira).



JIRA PRESENTATION

Sprint retrospective:



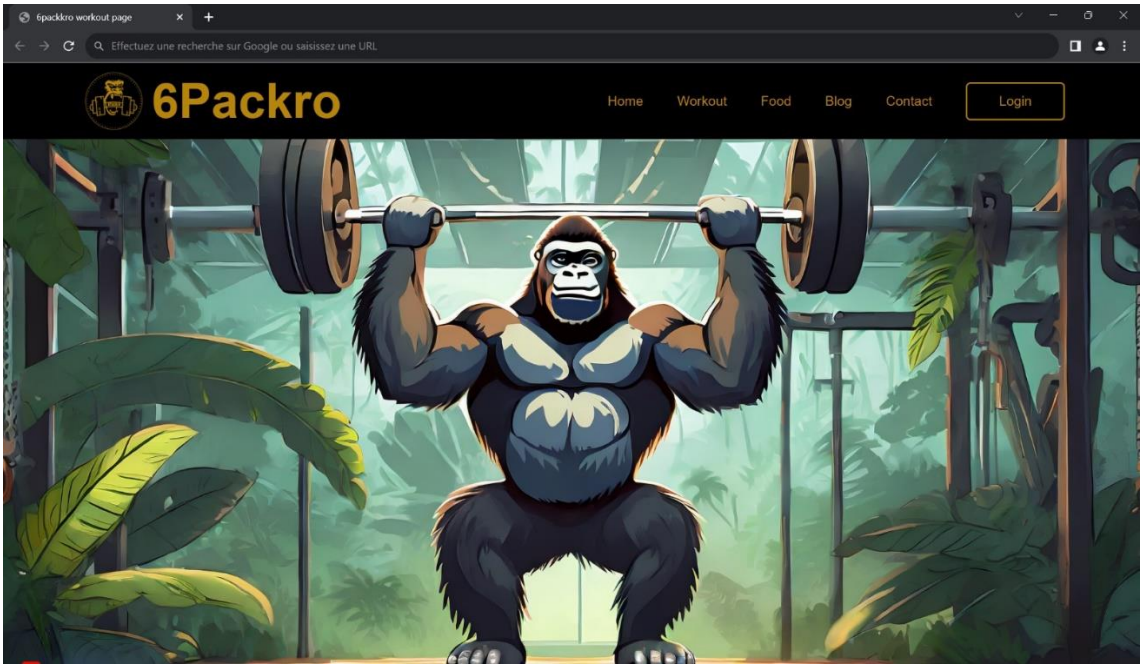
We have also stared a 4th sprint on the 25th of December. During this sprint, our objective is to advance the back-end the most we can until the 29th of December (end of the project) while keeping in mind that we have other projects to advance. The video presentation will show our final advancement.

WEBSITE PRESENTATION

We've created 5 different pages: the Home page, the workout page, the nutrition page, blog page (which is coming soon), the contact page and a login page.

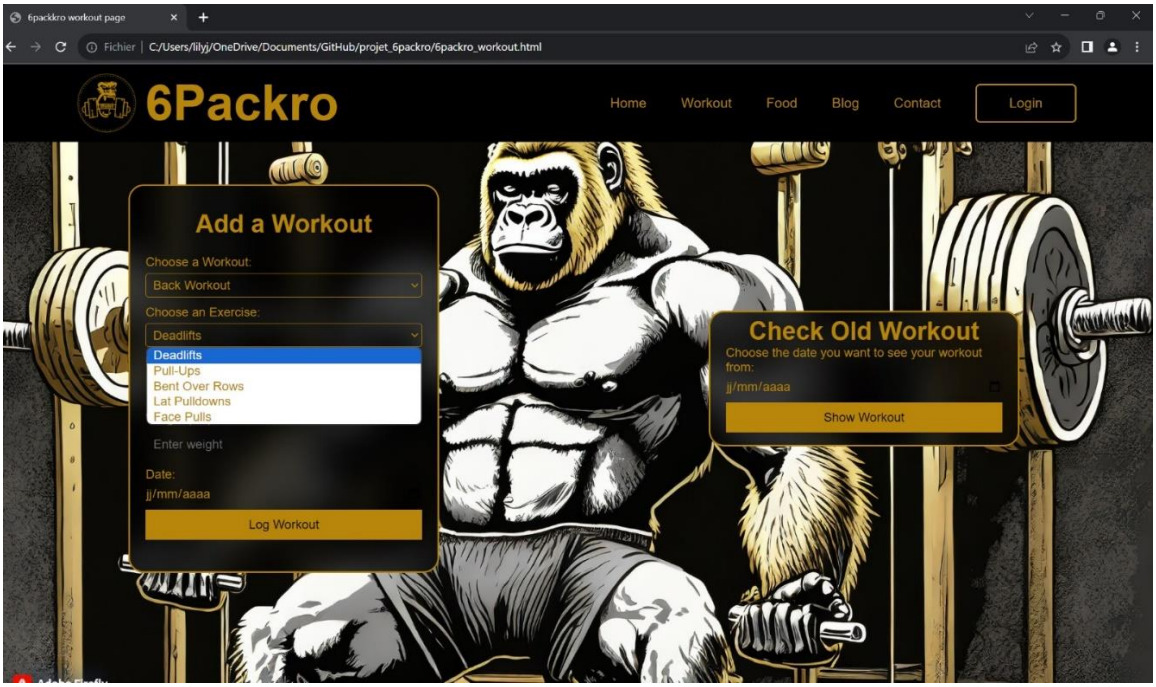
For the front end, we used mainly HTML and CSS; for the back end, we used Node JS, express and oracle SQL Developer as you will be able to see on the GitHub link and the video presentation.

Home page:



Workout page:

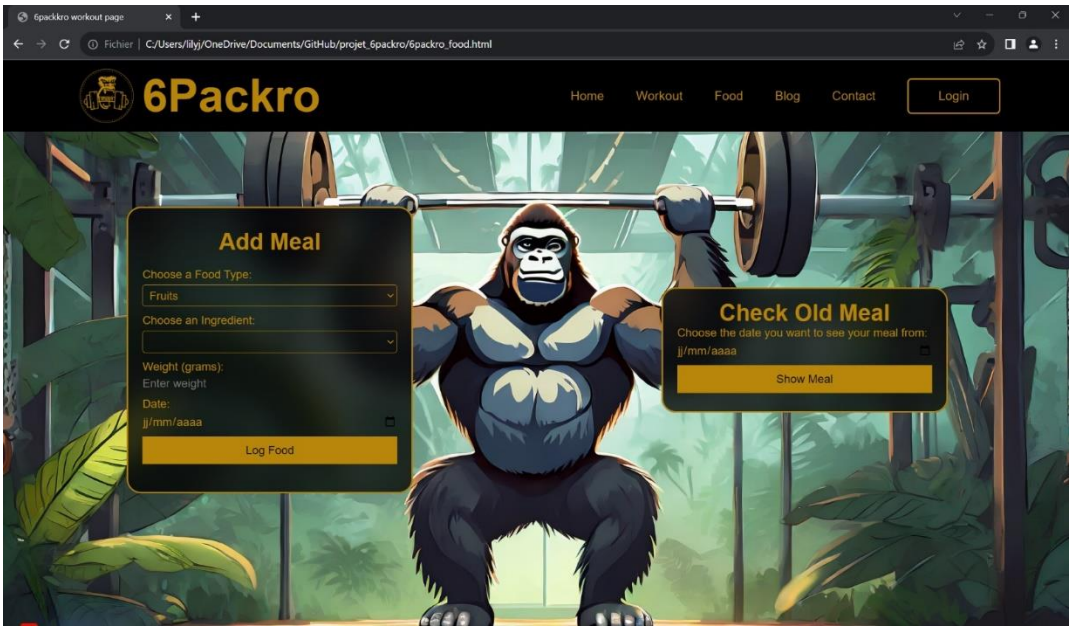
This is where the user can create a workout plan by selecting from a range of different exercises, sorted by muscle group we have put at their disposition.



WEBSITE PRESENTATION

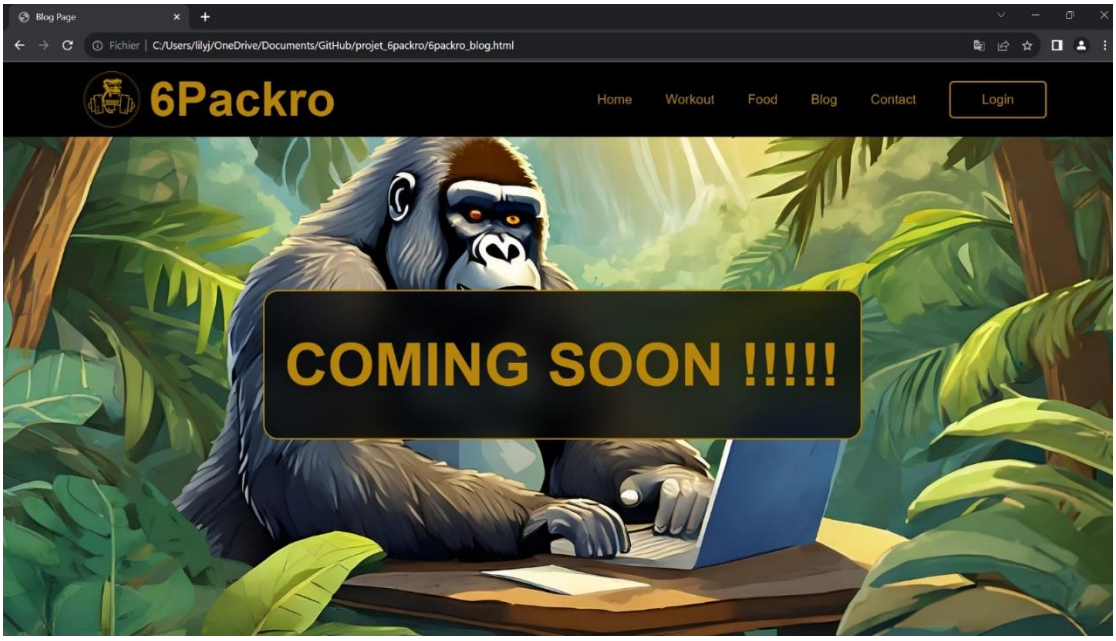
Food page:

This is where the user can create his nutrition plan, he can select food from a list we implemented and to create meals. He can also have access to previous meals he created by typing in the date.



Blog page:

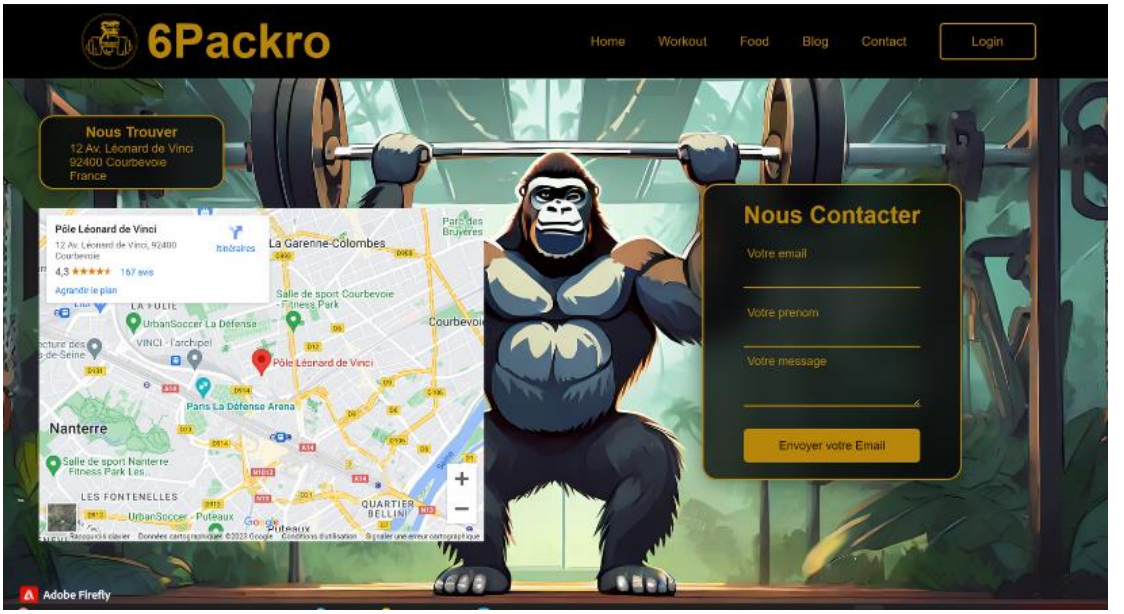
As we said, this page isn't yet available in the beta version but will contain the interactive part of the site.



WEBSITE PRESENTATION

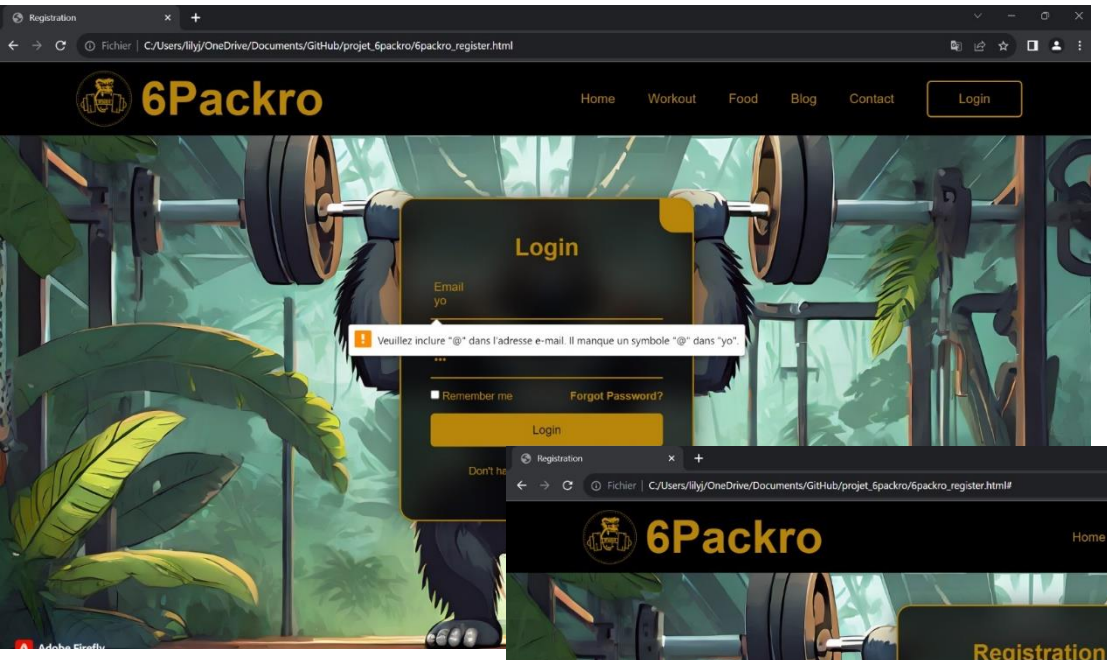
Contact page:

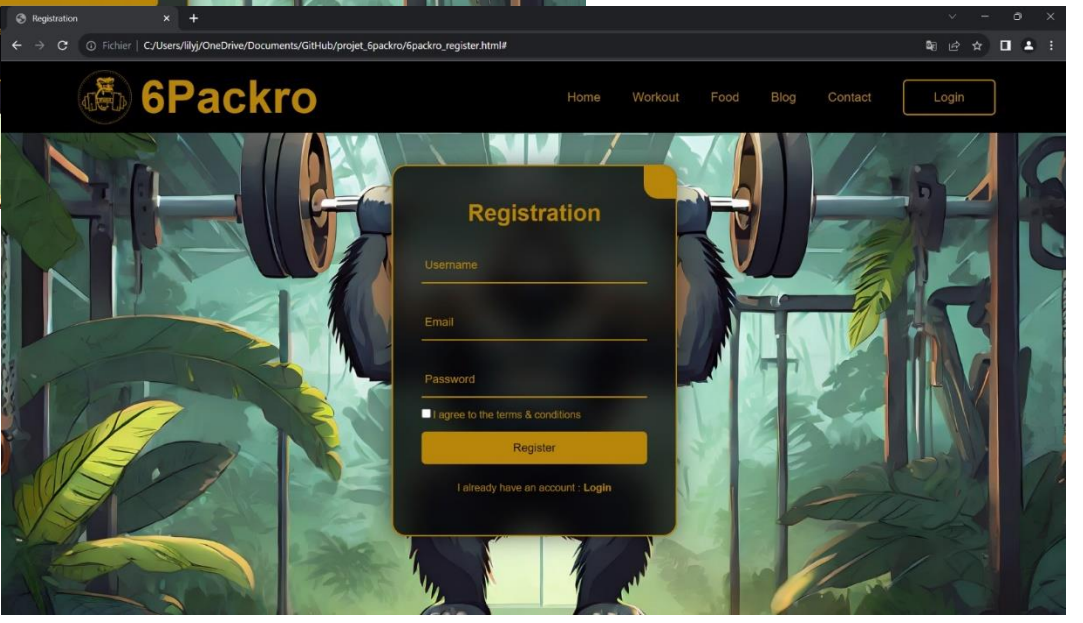
This is where the user can find the information to find us, they are also able to send us a message with their name and e-mail so that we can come back to answer his message.



Login page:

This is where the user can login or register to create a new account.





LINKS

JIRA : https://6packro.atlassian.net/jira/software/projects/SCRUM/boards/1/timeline

(we invited the TD Lecturer and our course leader as asked for the JIRA)

GitHub: https://github.com/gasp002/projet_6packro

Video: https://clipchamp.com/watch/Fi4GadNHuqv