

SYLVA

PERFUME. REINVENTED.

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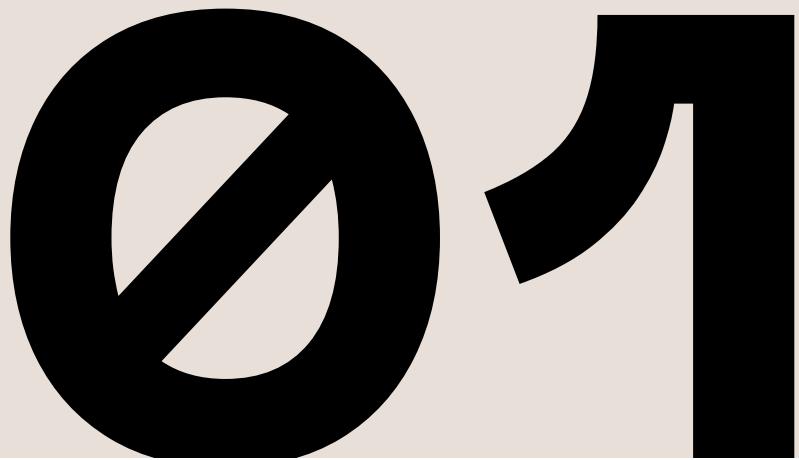
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INTRODUCTION

Introduction

Our project began with a simple idea: to create a smart and engaging website that helps users discover perfumes that match their personality and preferences. From designing the user experience to developing the technical features, every step was shaped by creativity, teamwork, and thoughtful choices.

Throughout the project, we followed a flexible and collaborative workflow inspired by Agile principles. While we didn't use a strict framework, we held regular team meetings to track our progress, share feedback, and plan the next steps.

Each of us focused on different parts of the site (from design to development) but we stayed closely connected, helping one another when challenges came up. This way of working made problem-solving faster and the whole process more efficient.

This report presents the different phases of our project, the tools and technologies we used, the challenges we faced, and the solutions we implemented. You'll also find insights into our creative choices and the improvements we'd like to make in the future.



Our Team



Hassane Ramdjee – Advanced JS

I took care of the site's deeper logic using advanced JavaScript techniques. I worked behind the scenes to make sure everything reacted smoothly from dynamic filters to smart features. My work made the website feel alive and interactive.



Abdesamad Qouqi – FrontEnd

I focused on building the visible part of the website (the structure, layout, and flow). I translated the design into real, clickable pages and made sure everything looked clean and consistent. Thanks to me, Sylva feels modern and intuitive to use.



Lucie Moreau – Web Design

I worked on the visual identity and user experience of Sylva. I chose the colors, fonts, and spacing, making sure the website feels elegant and pleasant (like the perfumes it represents). I also helped shape the user journey from start to finish (with Figma).



Lilou Constantin – BackEnd

I took charge of the backend : the part that connects the website to the data. I managed how information is stored, processed, and retrieved. My work made sure that actions like logging in, placing orders, or interacting with the database were fast and reliable. I'm also the group's artist, and I created all the drawings you're about to discover.



INCEPTION

Inception

At the start of our project, we explored several ideas. We first considered creating a website about makeup : visually appealing, yes, but ultimately too narrow. Then we moved to a broader concept: beauty products. However, that felt too general and lacked a clear identity.

Eventually, we found the right balance with perfumes. Perfume is not just a product : it's personal, emotional, and full of character. It allowed us to focus our message while still leaving room for creativity. The theme felt elegant and inspiring.



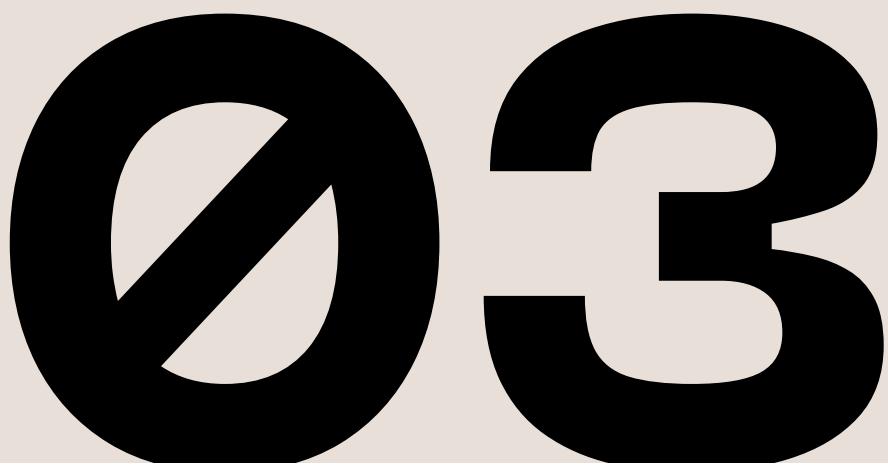
With the idea in place, we asked ourselves three essential questions:

- What are we creating?
- Why are we doing it?
- How will we do it?

These questions helped shape our vision. But a deeper one emerged:

Why would a customer choose our brand over another?

That question guided everything. It pushed us to define the values behind Sylva: authenticity, elegance, and a connection to nature. From there, the concept took shape : not just a perfume brand, but an experience rooted in identity and meaning.



ELABORATION

The Unified Modeling Language

The "blueprints" of our project

Before we could start building Sylva, we needed to understand exactly what we were building, not just visually, but logically. That's where UML, or Unified Modeling Language, came in. UML gave us a way to sketch the system behind the screen: what happens when a user clicks "Add to Cart," how the chatbot suggests a fragrance, or how an order flows from selection to payment. These diagrams acted like blueprints, helping us organize our ideas, plan our features, and make sure every part of the site had a clear role. Instead of jumping straight into code, we used UML to think carefully about how users would interact with the platform, and how the system would respond.



Visualize

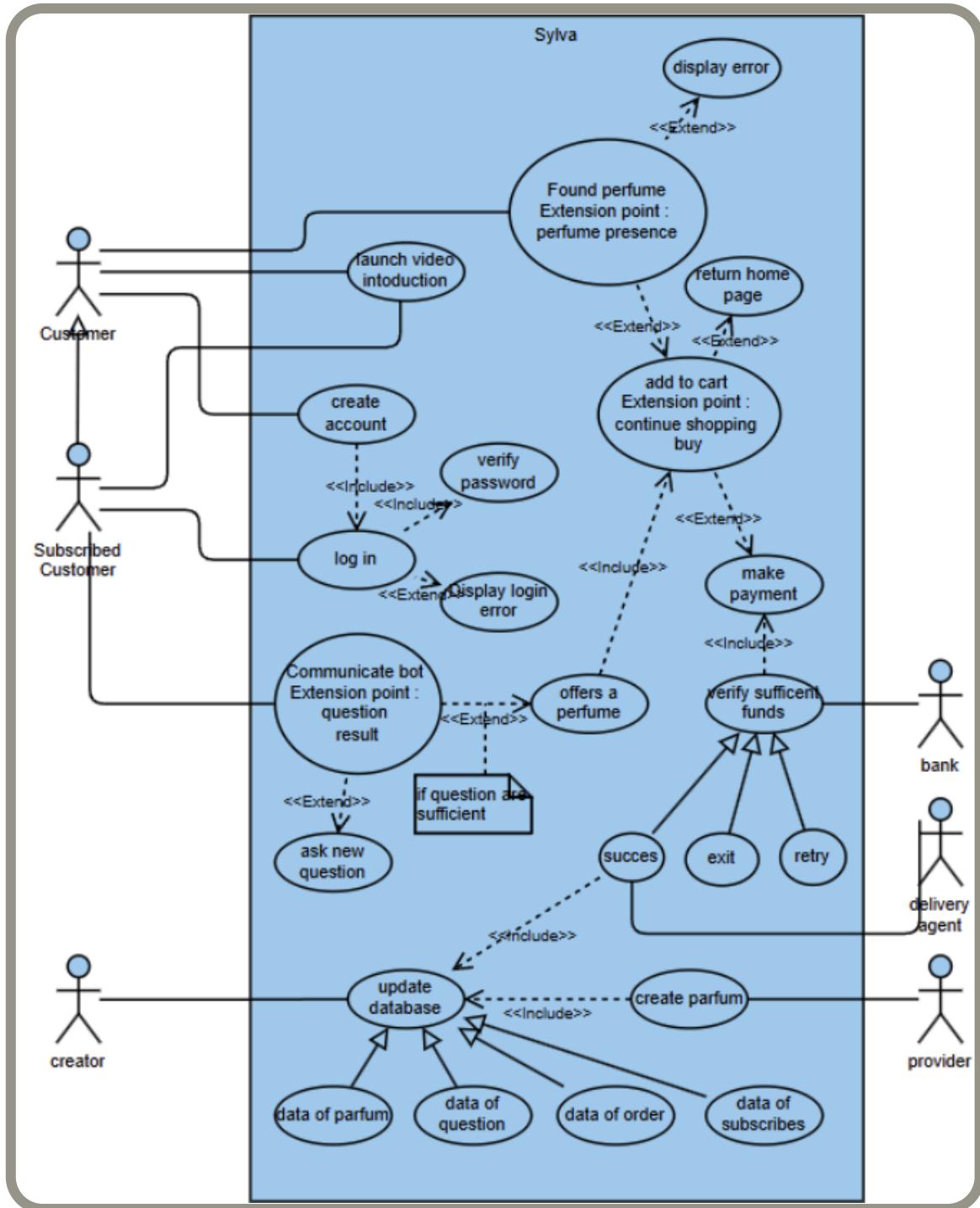
Design

Explain

Using four main types of diagrams, we explored different angles of our website. Each one helped us make better decisions. Thanks to UML, we weren't just designing pages : we were designing how Sylva thinks, behaves, and adapts to the user. It was a crucial step in turning our vision into something real, functional, and user-centered.

The Use Case diagram

This is our use case diagram. It helps us understand the main actions a user (basically you) can do on our website. It shows the steps like creating an account, logging in, searching for a perfume, getting suggestions from the chatbot, and placing an order. It also includes what happens in the background, such as checking payment and updating the database. This diagram gave us a clear view of how everything connects and helped us plan the website in a smart and organized way.

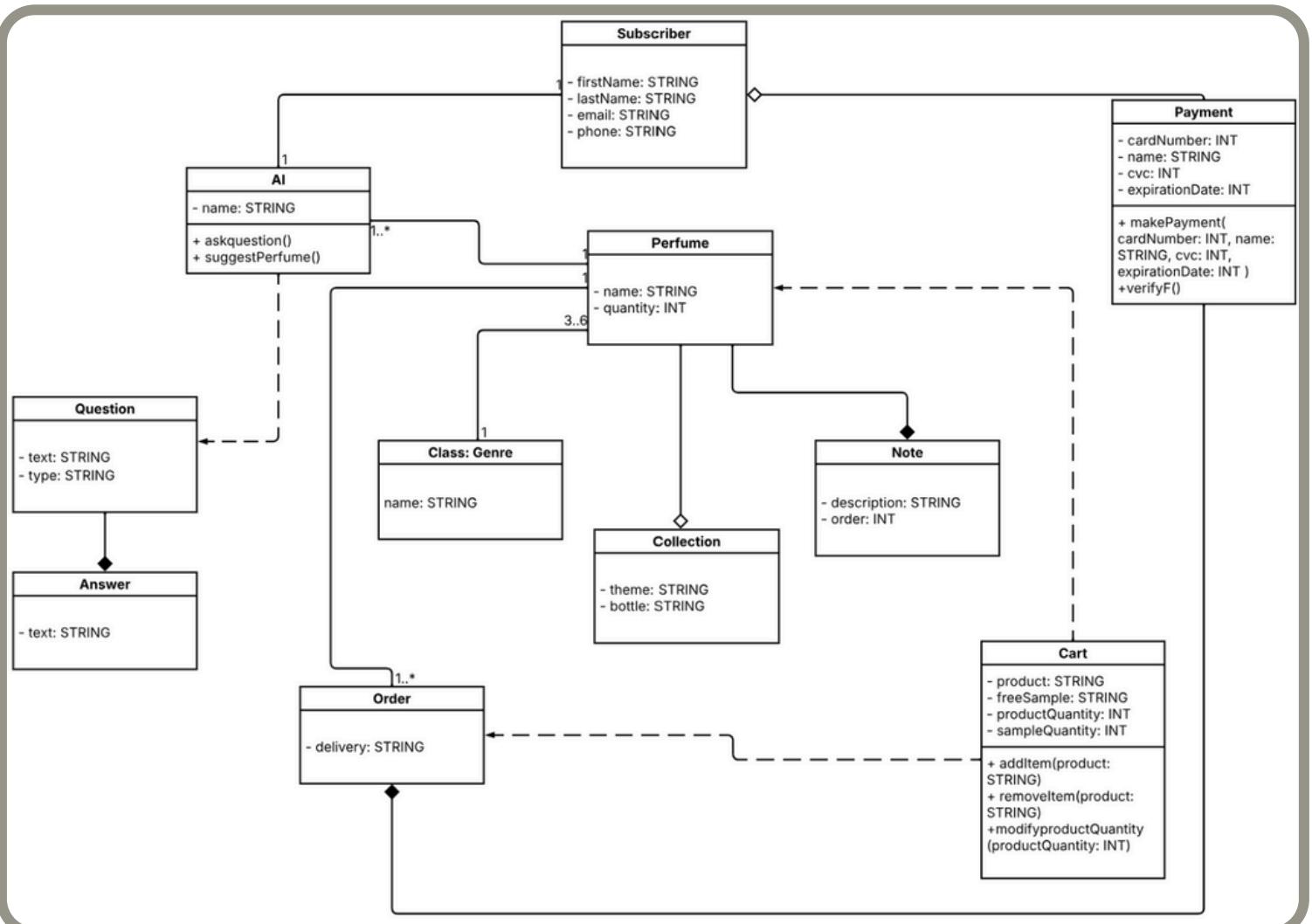


The Class diagram

Our class diagram shows how our perfume website is structured behind the scenes. Each box represents a class, which stores information (called attributes and methods) like user details, perfumes, collections, orders, and payments. It also shows how these classes are connected to each other.

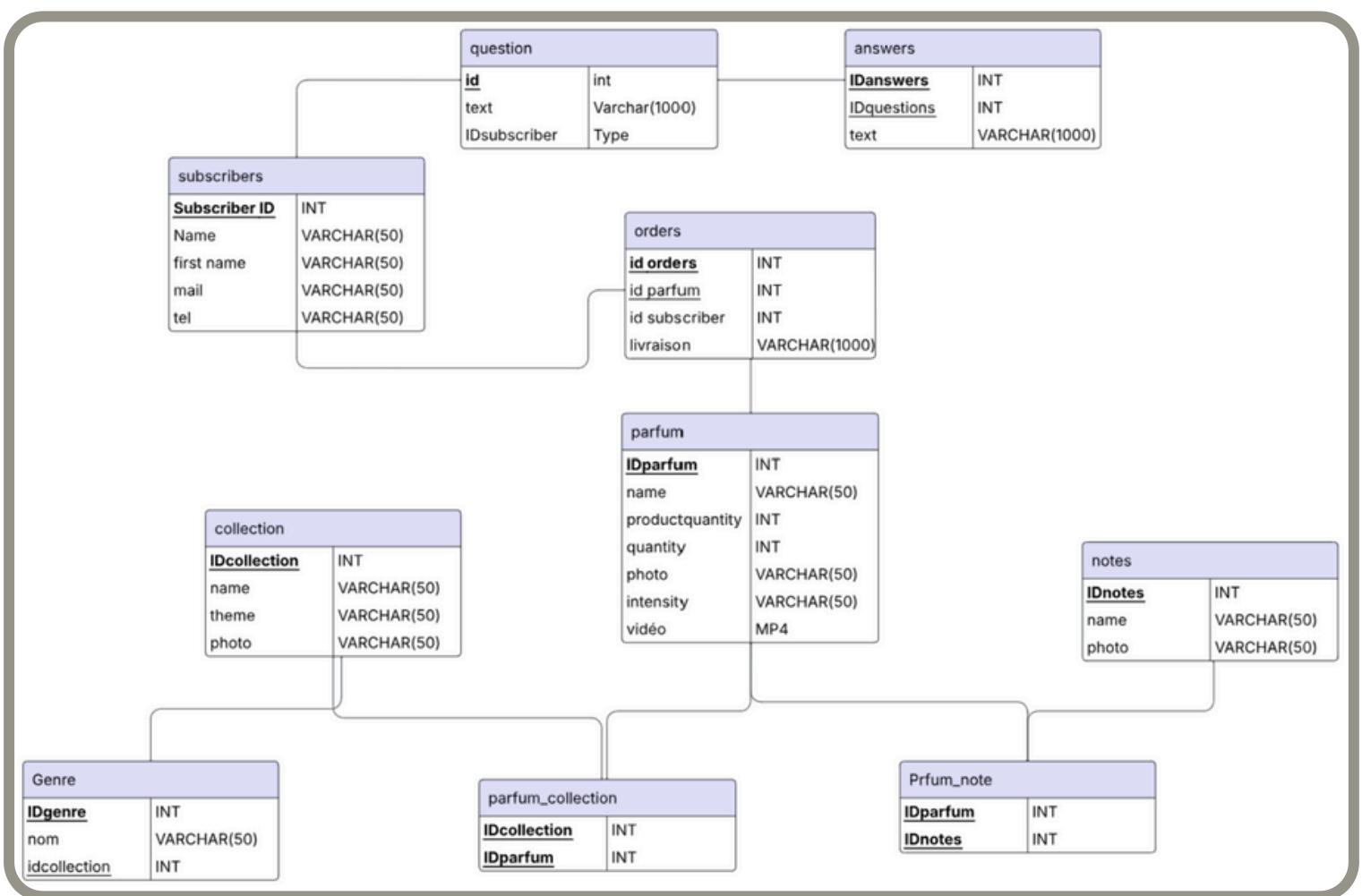
For example, a subscriber can ask the chatbot to suggest a perfume. Perfumes are grouped into collections and have different notes and genres. When a user places an order, the system links it to the selected perfumes and manages the cart and payment details. There's also a section for questions and answers, allowing interactive features through the chatbot.

This diagram helped us design a clear blueprint of an organized system, where every part of the website works smoothly and communicates with the rest.



The DataBase diagram

This is our database diagram. It represents the structure of the database that underpins our website. Each box represents a class, and each class contains specific types of information, such as users, orders, fragrances and collections. It also shows how these elements are linked together by unique keys to give them their own identity. For example, each fragrance belongs to one or more collections and users can place orders for fragrances. We've also included support for questions and answers, notes and even video content. This diagram helped us to organise our data clearly and ensure that all the elements of the website worked together logically and efficiently.

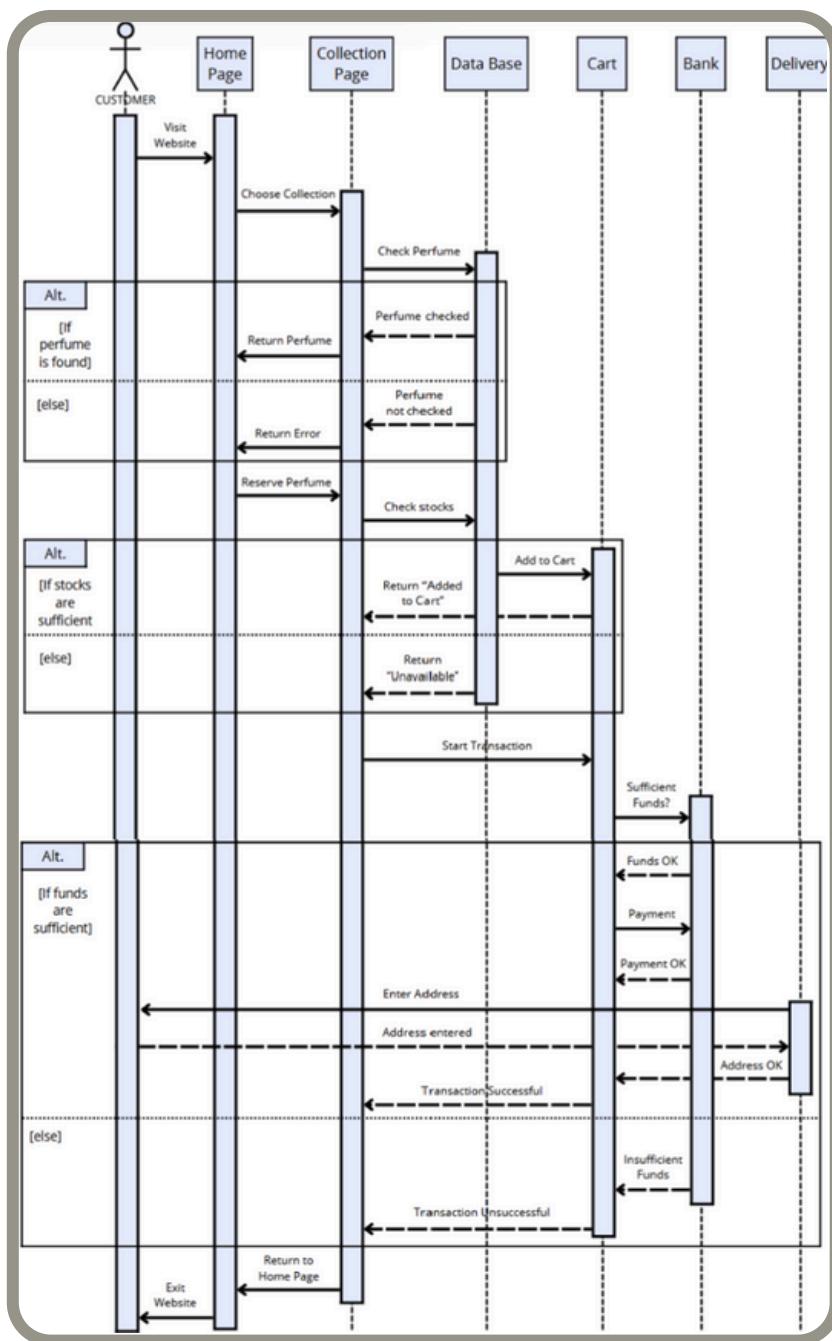


The Sequence diagram

This sequence diagram shows the customer's journey on our perfume website. It begins with browsing a collection and checking perfume availability in the database. If the perfume is found and in stock, it's added to the cart.

The customer then starts a transaction. The system checks with the bank if there are enough funds. If the payment goes through, the customer enters their delivery address, and the order is confirmed.

The diagram also covers what happens if the perfume isn't found, is out of stock, or if the payment fails. It helped us build a clear and efficient process by showing how every part of the system connects and responds to each action.





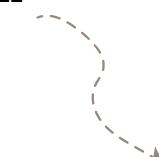
CONSTRUCTION

Construction

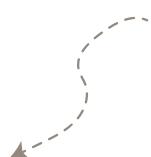
In this phase, we focused on building the website using a set of modern tools and technologies chosen for their simplicity, efficiency, and adaptability to our project. To make this more intuitive, we'll explain each one through the metaphor of building a house (from the workshop to the final opening).



Our workshop, where we wrote and organized all the code — the starting point of the whole project.



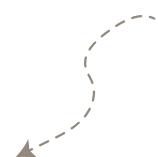
The walls and doors — what users see and interact with. Vue let us build responsive, reusable components, like moving furniture between rooms.



The electricity and plumbing — invisible but essential. It processes requests and connects the site to the server.



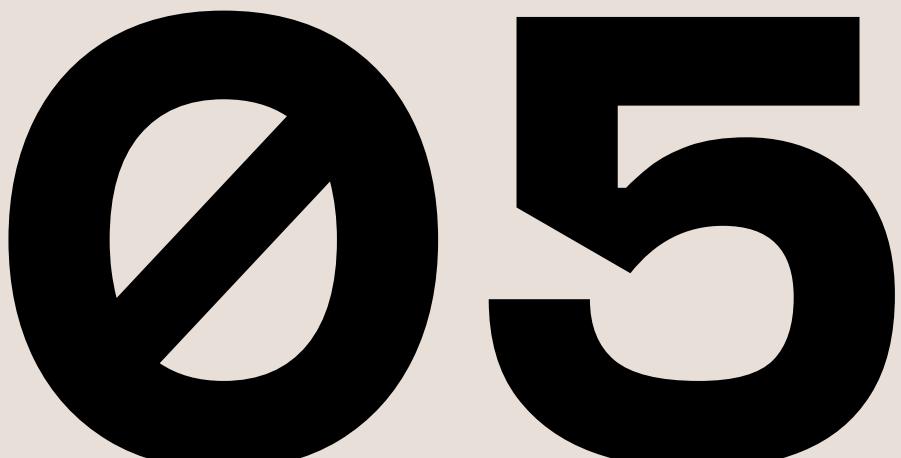
Our boxes of materials. JSON stores the data we display — like forester profiles and contact info.



Our testing room. It let us preview and test everything locally, quickly and easily.



The grand opening. This is how we published the site online and made it accessible to everyone.



TRANSITION

Transition

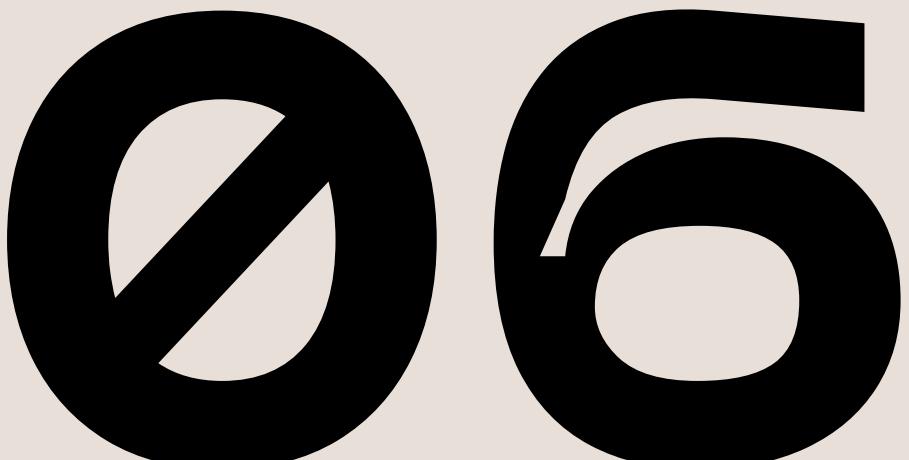
The transition phase came after the main development of the website. It was the moment where we stepped back to test everything, fix bugs, and make sure all parts worked smoothly together. It also gave us a chance to reflect on the tools we used and think about how we could improve in the future.

We faced a few technical difficulties. For example, adjusting the size of product images to make them look clean and consistent was more complex than expected. We also had to carefully manage when and how functions were called because calling a function at the wrong time could cause unexpected bugs elsewhere.

However, using Vue.js was a big advantage. In our older projects, we often had to manually manipulate the DOM, which made things more complicated. With Vue, everything was more structured and reactive (responsive), so we could build features more easily and with fewer errors.

Looking ahead, we see some areas for improvement. We could add PHP to handle data processing more securely and efficiently. Also, creating a mobile version of the site would make it more accessible and user-friendly. These improvements would take the project to the next level and make it more complete.





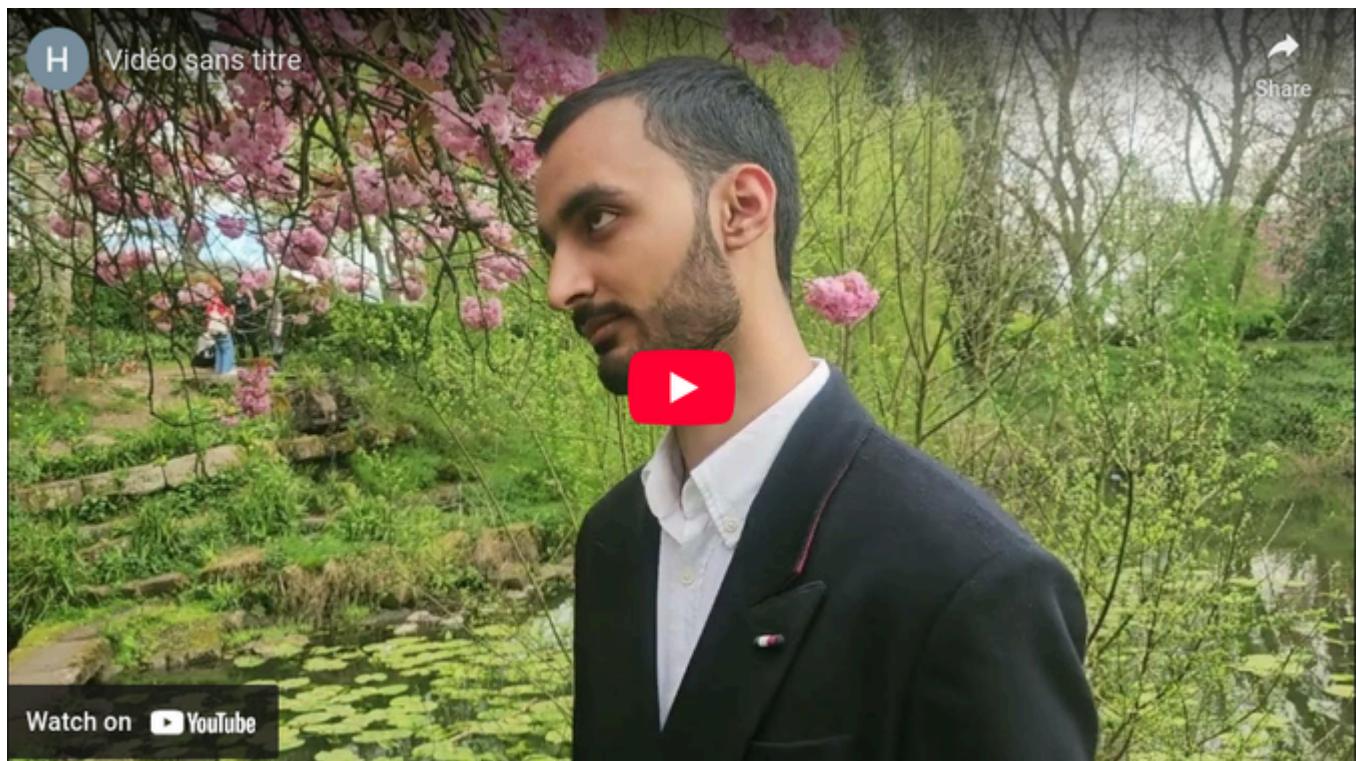
CONCLUSION

Conclusion

This project was an opportunity to apply both technical and collaborative skills to build a meaningful and functional website. From the initial concept to the final deployment, we carefully designed each stage : choosing the right tools, structuring our development process, and supporting each other throughout. The result is Sylva, a platform that reflects both our vision and our teamwork.

To present our work in a more creative way, we also produced a short promotional video : a quick and engaging glimpse to feed your curiosity.

<https://www.youtube.com/watch?v=HzpvP7scORQ>



Just below, you'll find the link to explore the website yourself:

<https://ramdjee.github.io/Sylva/>

Sylva®