deti

M3

FindIt

Shopping easier.

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Orientadores
Samuel Silva
Daniel Ferreira
Bernardo Marques

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Project Context

- Choosing where to shop is time-consuming
- Finding products in stores can be difficult
- Cumbersome shopping lists

State of the Art

Feature	Kabaz	Bring!	FindIt
List supermarkets nearby	✓	✗	✓
Compare prices among markets	✓	✗	✓
Create groceries list	✓	✓	✓
Find path inside the store	✗	✗	✓
Get recommended products	✗	✗	✓
Get consumption patterns & data	✗	✓	✓
Multi-modal interaction	✗	✓	✓

Milestones Goals for M3 Now

Increase savings by finding the cheapest option

A mobile app that **goes beyond touch interaction**

Enhance the shopping experience, from beginning to end

As an administrator, **optimize shopping flows**

Actors & Personas Who?

Artur, 30

Stock Replacer

Wants to be efficient in stock replacement

Matilde, 68

Client

Wants to find products easily, w/o looking for them

Osvaldo, 45

Supermarket Admin

Wants to increase efficiency & optimize the supermarket

User Story showcase

Matilde, 68

Client

Wants to find products easily, w/o looking for them

Basic Shopping List Creation & Product Search

As a Matilde, I want to create a shopping list and search for products
So that I can start planning my shopping easily.

Functional Requirements Needs

Matilde, 68

Client

Wants to find products easily, w/o looking for them

Shopping List Management

- Browse products from multiple supermarkets
- Create and manage shopping lists
- Suggest items based on past and current lists

Supermarket Trip

- Get directions to the recommended supermarket using a nav app

In-Store Shopping

- Show the most efficient route based on the current list

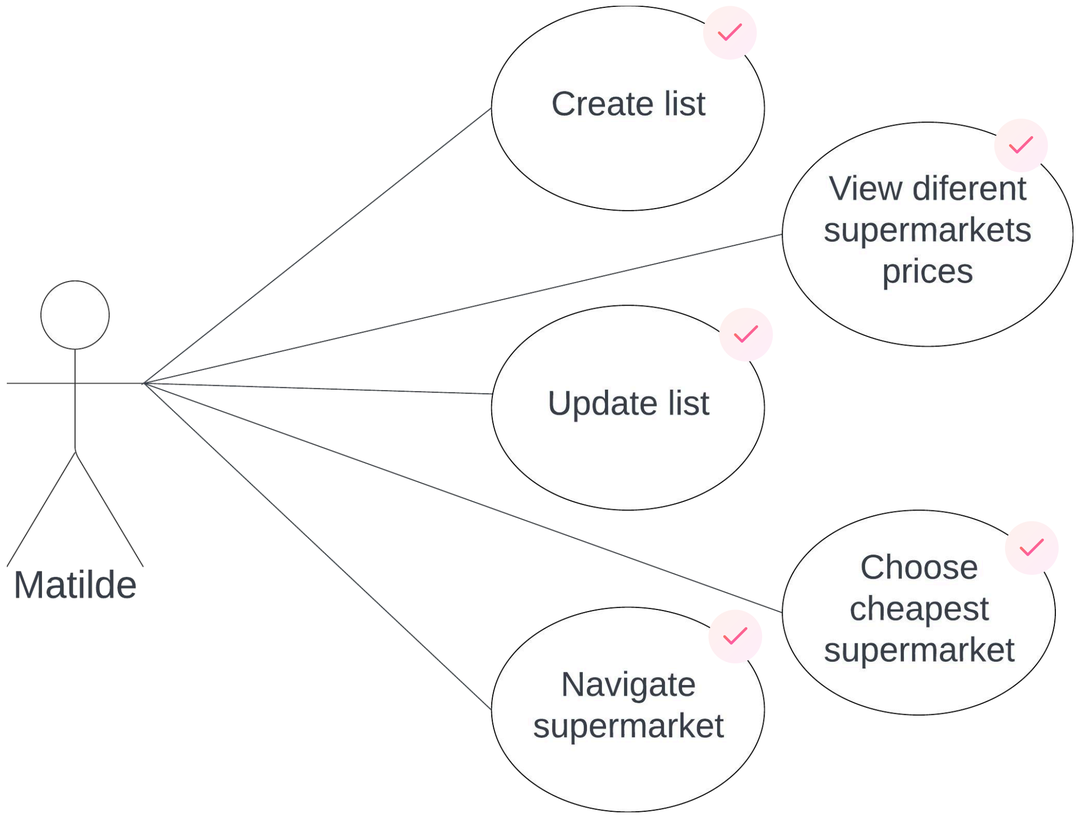
Non-functional Requirements Needs

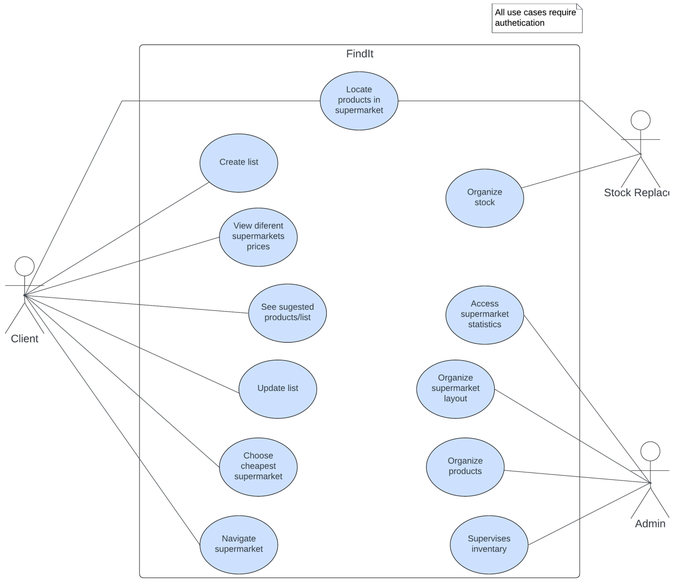
Usability:
Perform the tasks considered for our scenario with ease and satisfaction.

Performance:
Optimize backend, frontend, and rendering for loading pages under 4 seconds.

Compatibility:
Cross-platform availability

Use cases

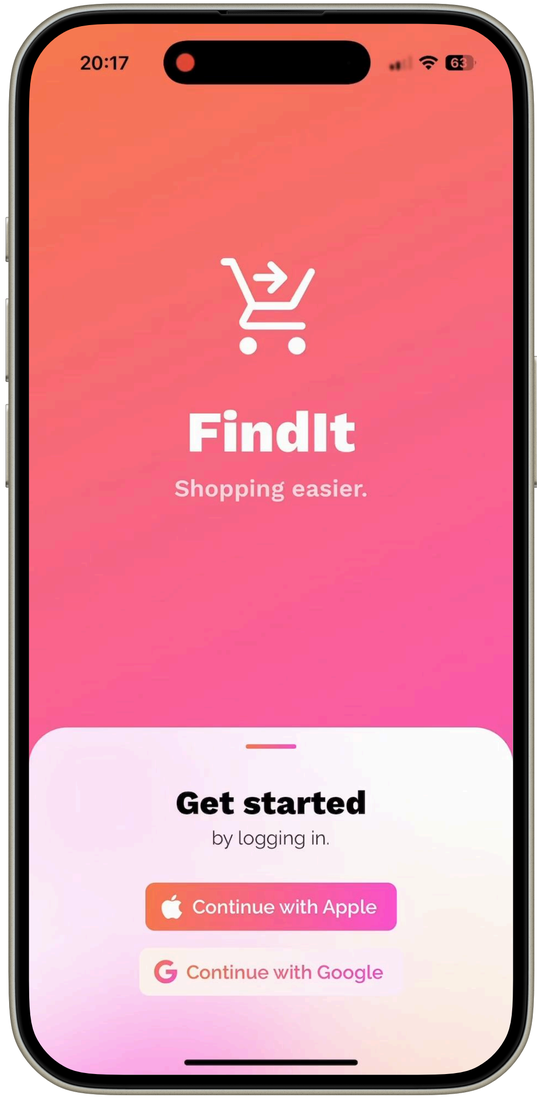

Create list
View diferent supermarkets prices
Update list
Choose cheapest supermarket
Navigate supermarket
Matilde


All use cases require authetication
FindIt
Locate products in supermarket
Create list
View diferent supermarkets prices
See sugested products/list
Update list
Choose cheapest supermarket
Navigate supermarket
Organize stock
Access supermarket statistics
Organize supermarket layout
Organize products
Supervises inventary
Client
Stock Replac
Admin

Demo

Matilde

1. **Check the list & search for a product**
2. Check product details
3. Get supermarket details
4. Go to recommended supermarket
5. Check the route inside & pick-up



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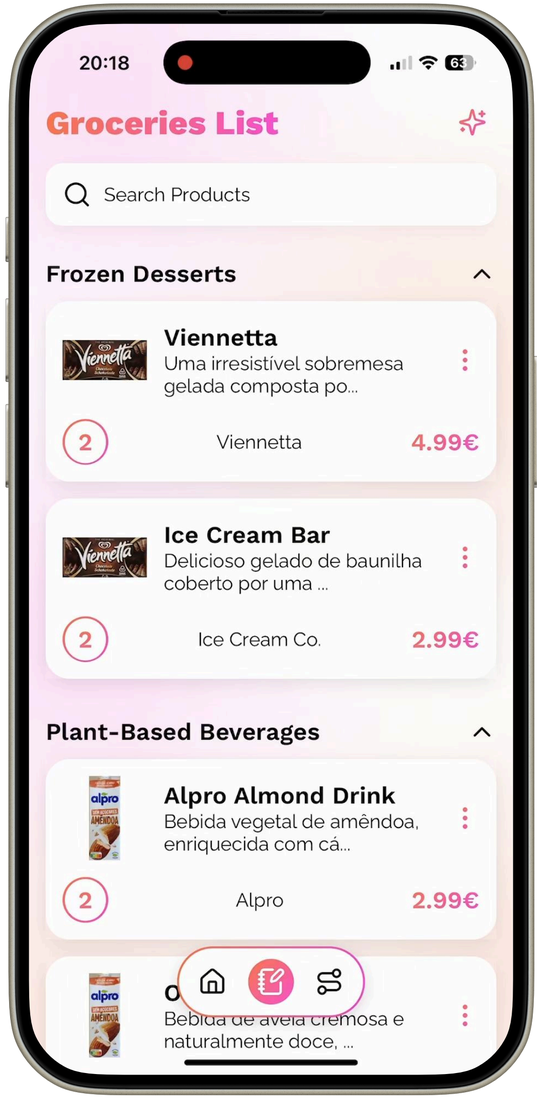

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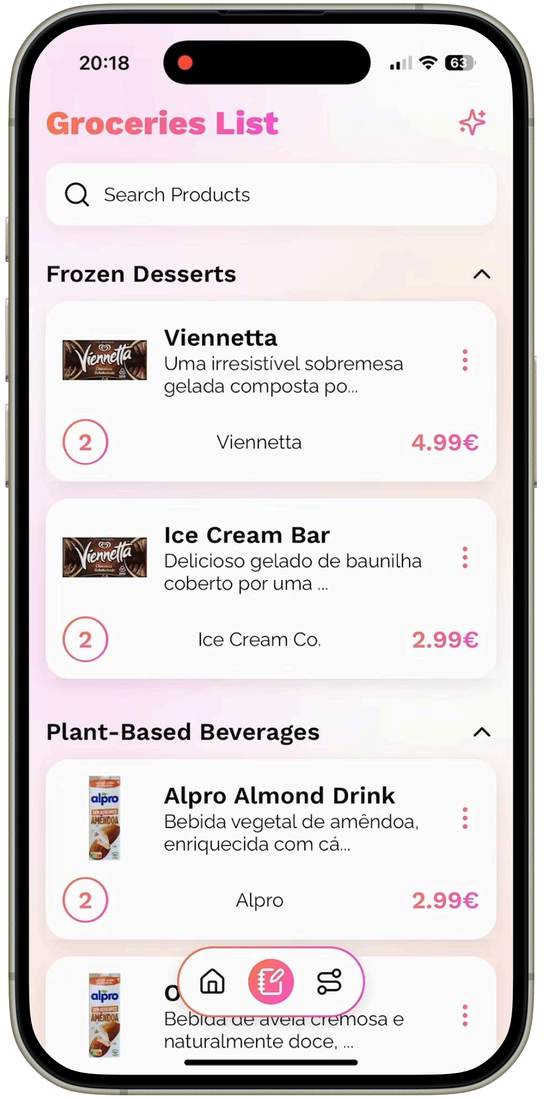

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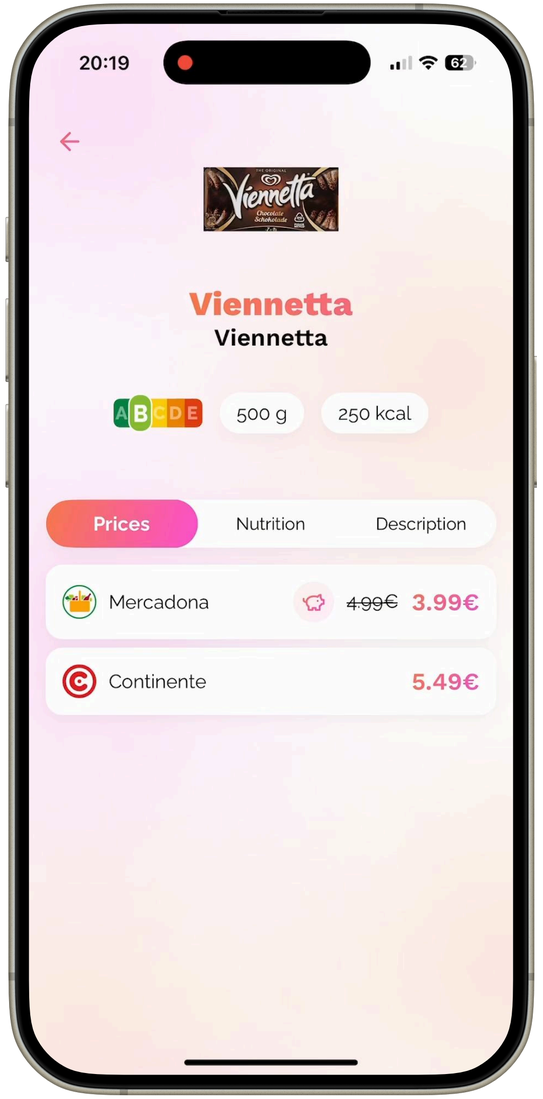

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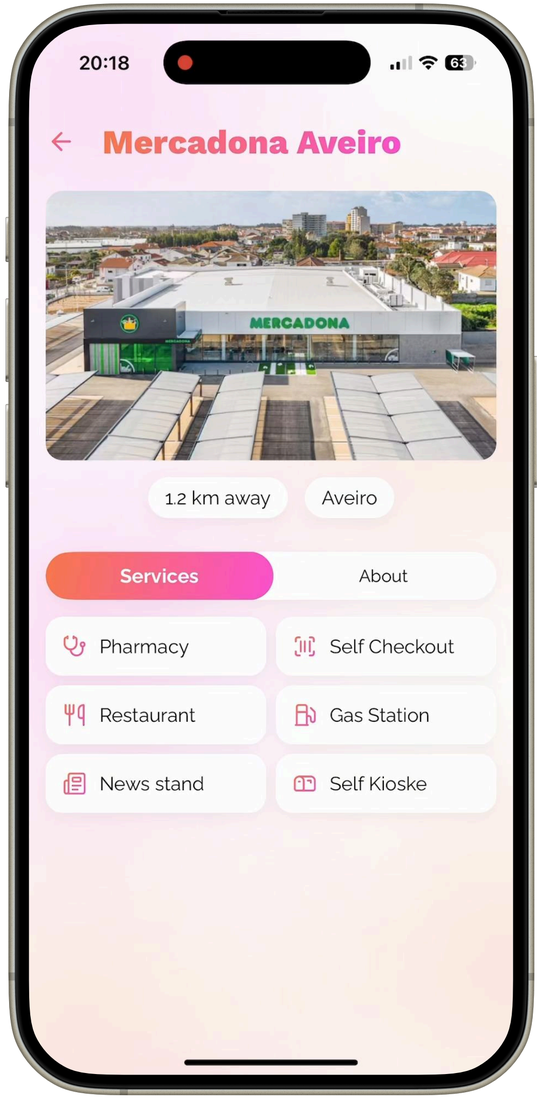

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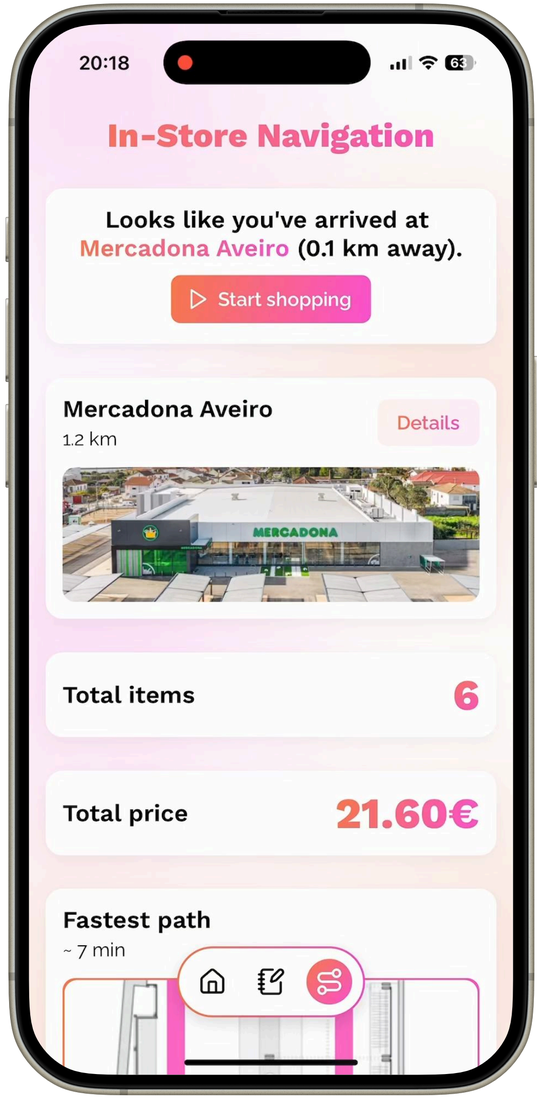

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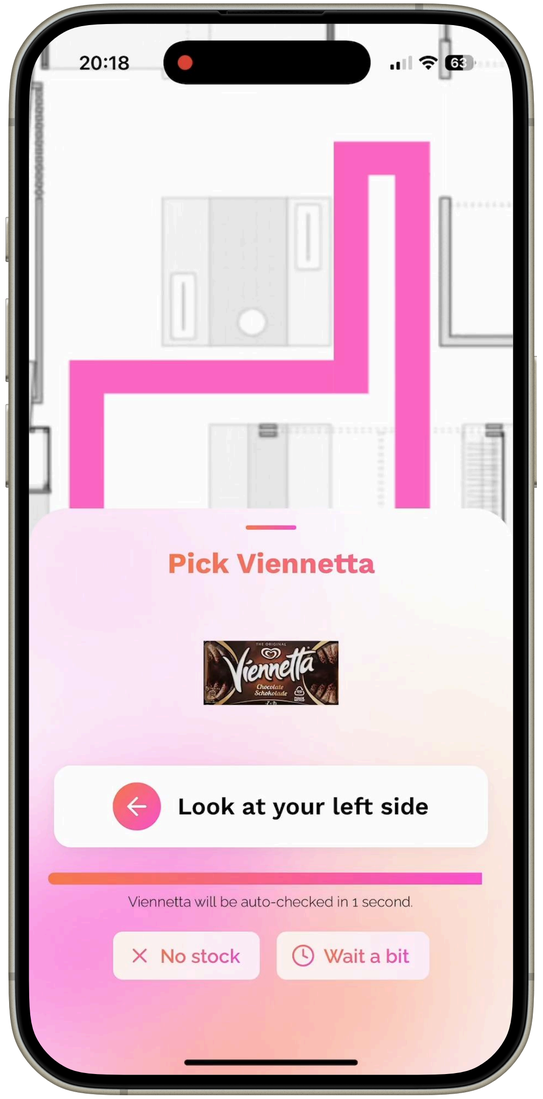
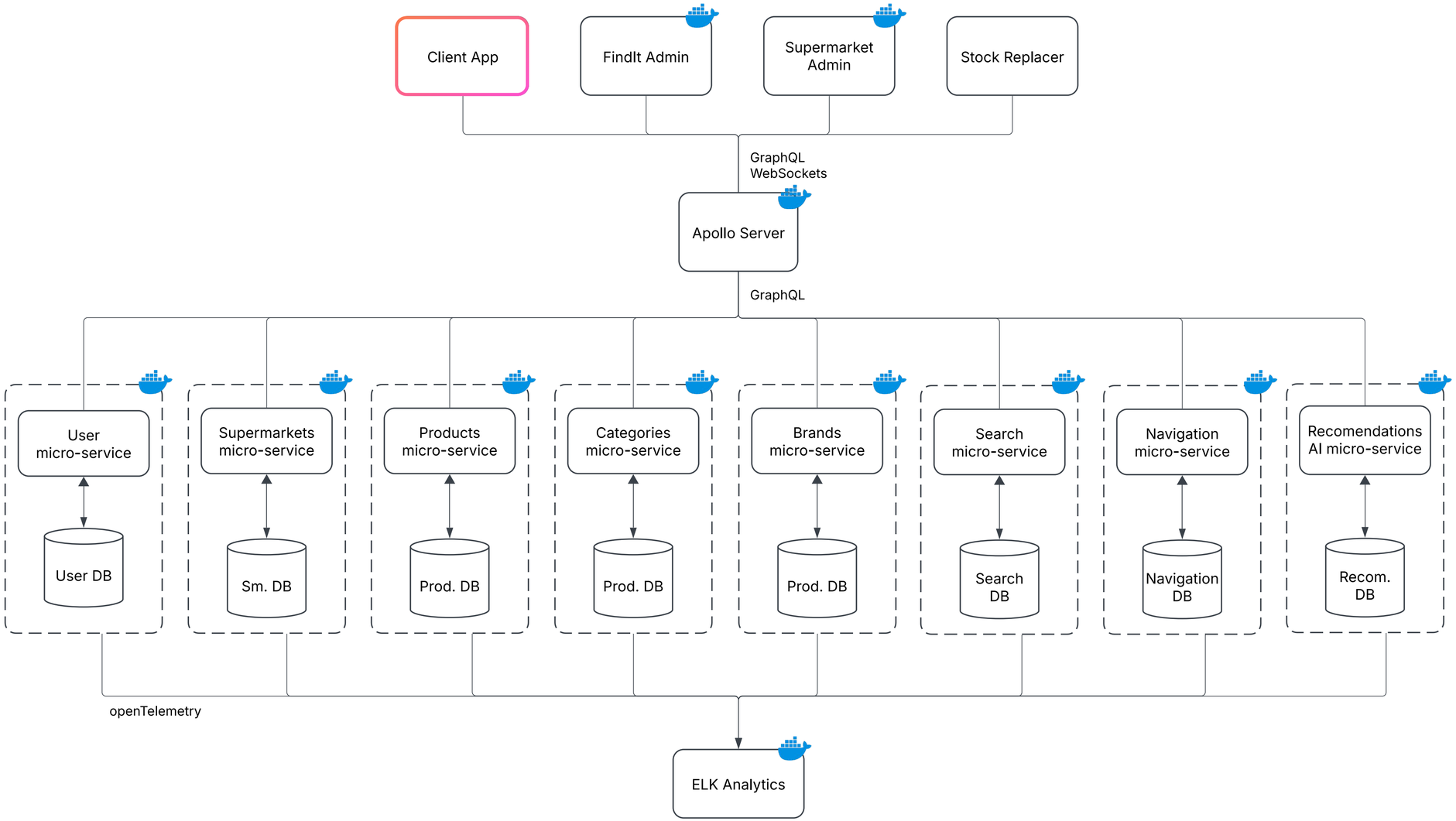


Architecture



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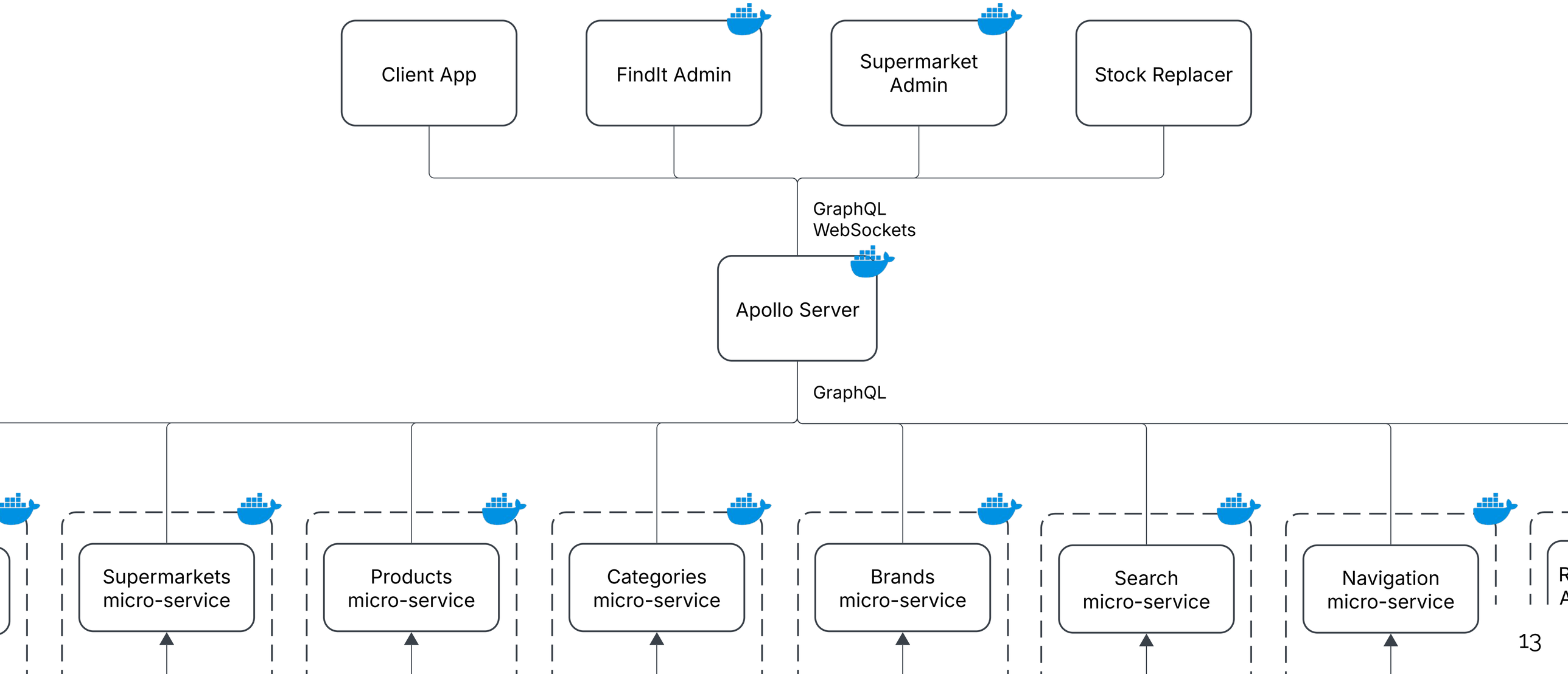

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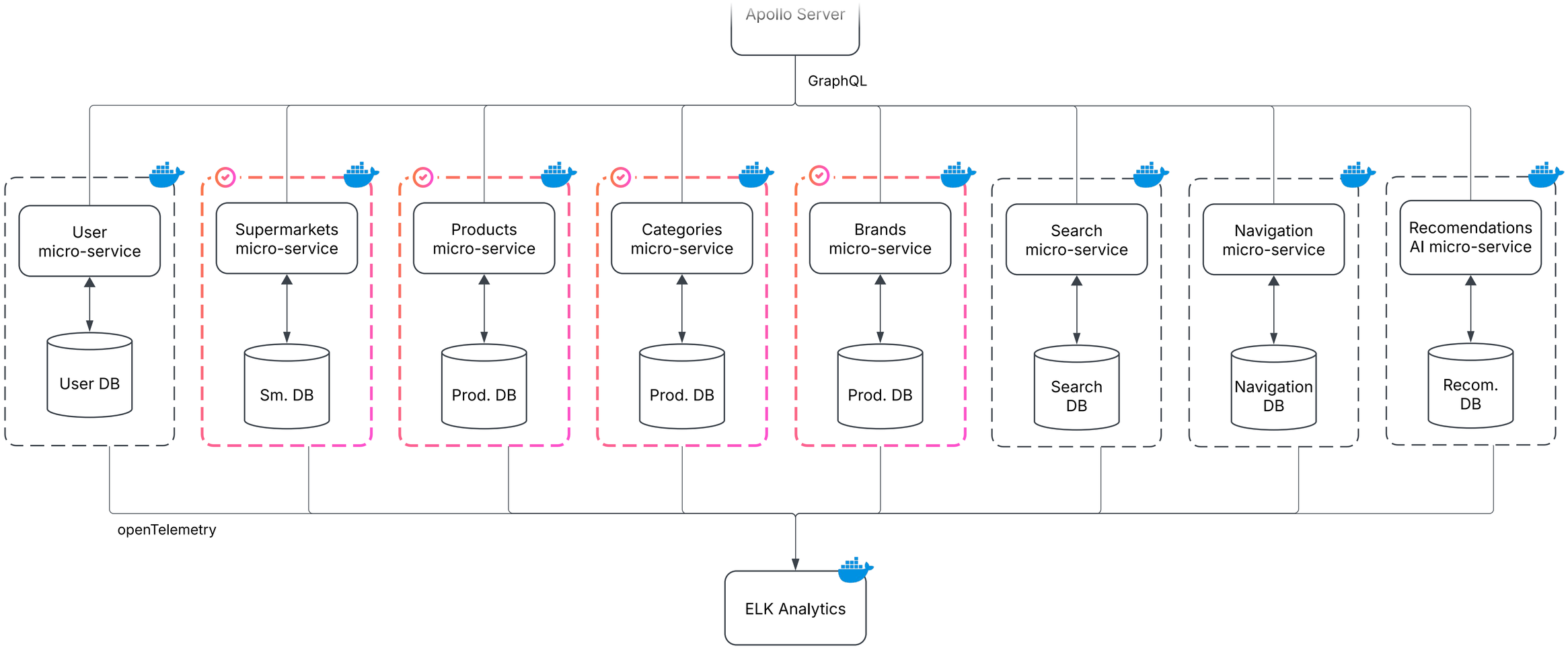
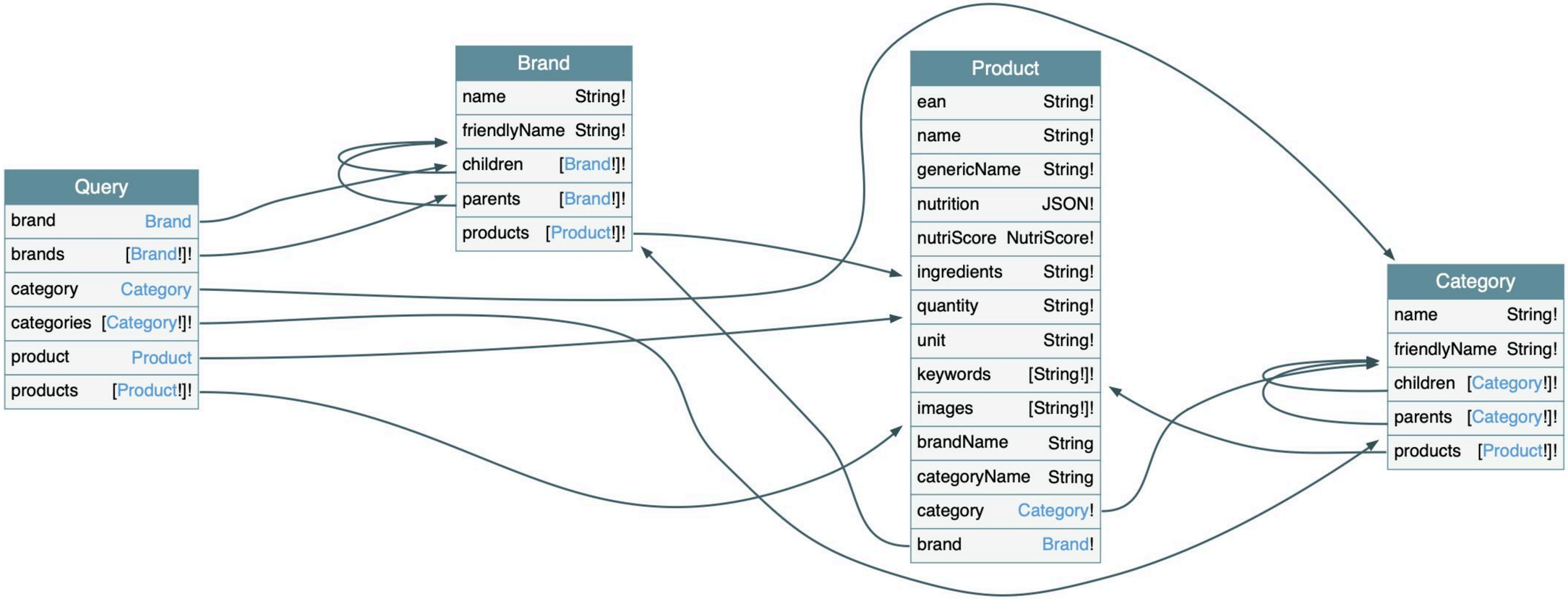
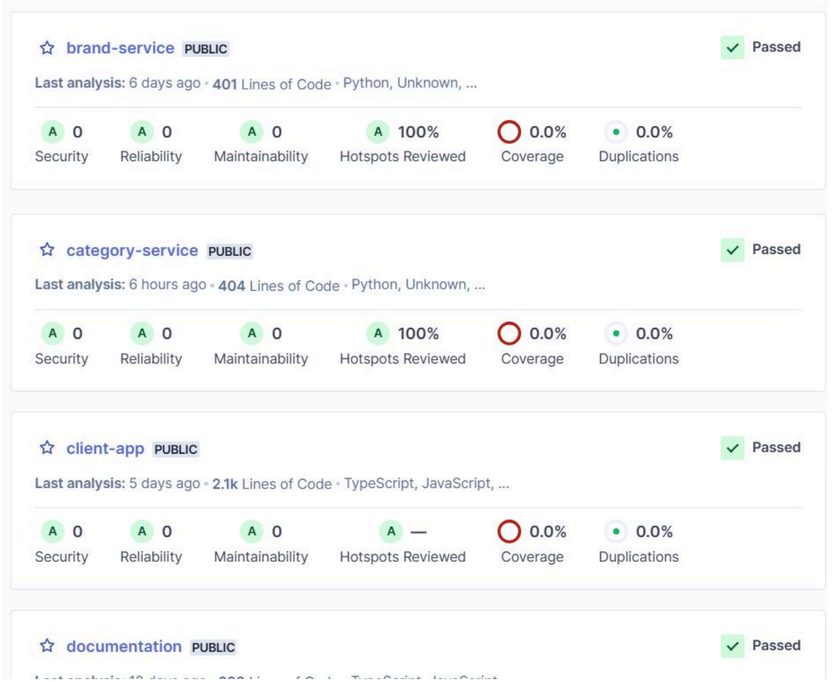


Domain Model

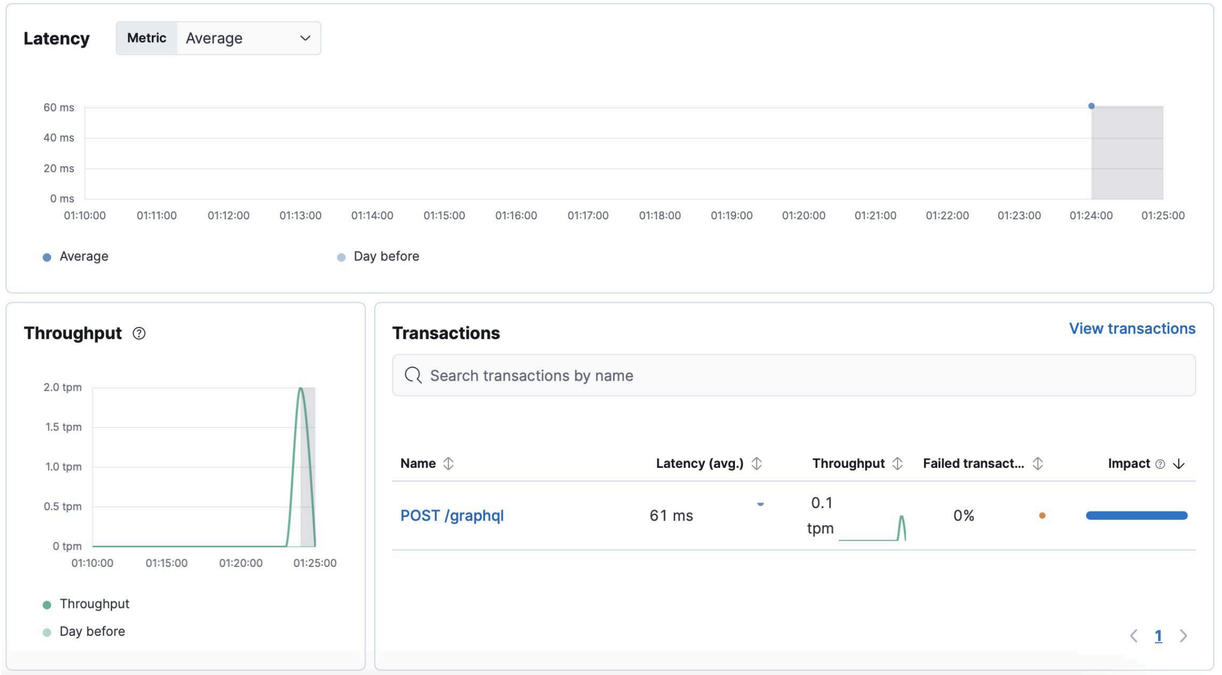


Extra things

Sonarqube
for FindIt



elastic



Calendar When?

18/02-25/02 **M1** Presentation GitHub Organization Project Calendar Jira Project Microsite	**26/02-11/03** **M2** Requirements Actors and use cases Design mockup Architecture	**12/03-25/03** **Check point** Shopping list Brand, category and product service (initialization)	**26/03-08/04** **M3** ~~Navigation Algorithm~~ User interface Shopping list Brand, category and product service
16/04-06/05 **Check point** **! Navigation Algorithm** Analytics Presentation and refinements	**06/05-20/05** **Check point** Final tests Bugs correction	**21/05-27/05** **students@deti** Poster Video Demo Technical report	**27/05-03/06** **M4** Final presentation

Changelog

Frontend

- Product info and prices page
- Navigation overview page
- Supermarket details page
- Navigation's bottom sheets

Backend

Product Service
- CRUD operations
- GraphQL API (Apollo)
- Integrated with Search DB

Brand Service
- Brand management
- Linked to Product Service (via Apollo)

Category Service
- Hierarchical categories
- Supports navigation & recommendations

Observability

Future work User stories

TODAY

M3

Basic shopping list creation and product search

Auto-removal of products upon proximity detection

Checkpoint #1

Optimized in-store navigation for product collection

Multi-modal Product Addition (Voice and Touch)

Checkpoint #2

Adding Products with Suggestions Based on Past Purchases

Optimized in-store navigation for stock replacement

M4

Administrative reports and supermarket management

students@deti poster

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Diogo Falcão
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Thank you!

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