

NOVA SCHOOL OF
SCIENCE & TECHNOLOGY

Interação Pessoa-Máquina

2025/2026

FreezApp

Stage 3: 1st prototype



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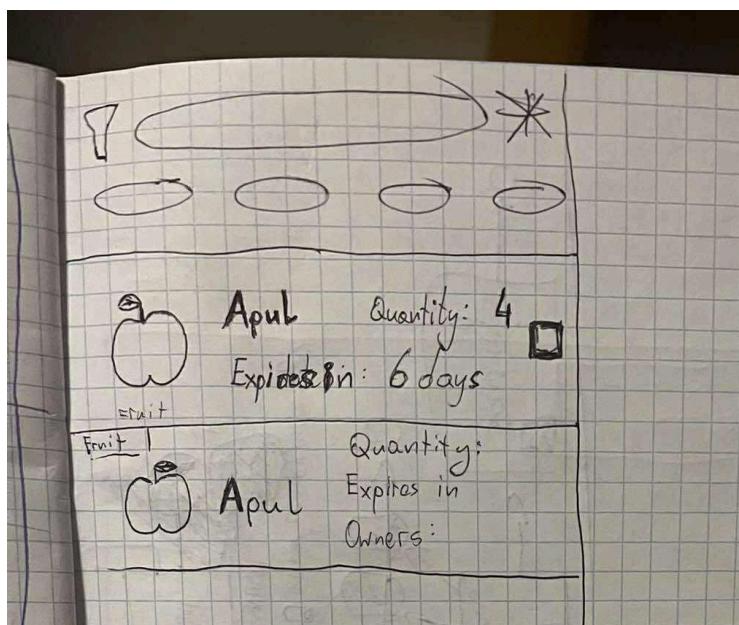
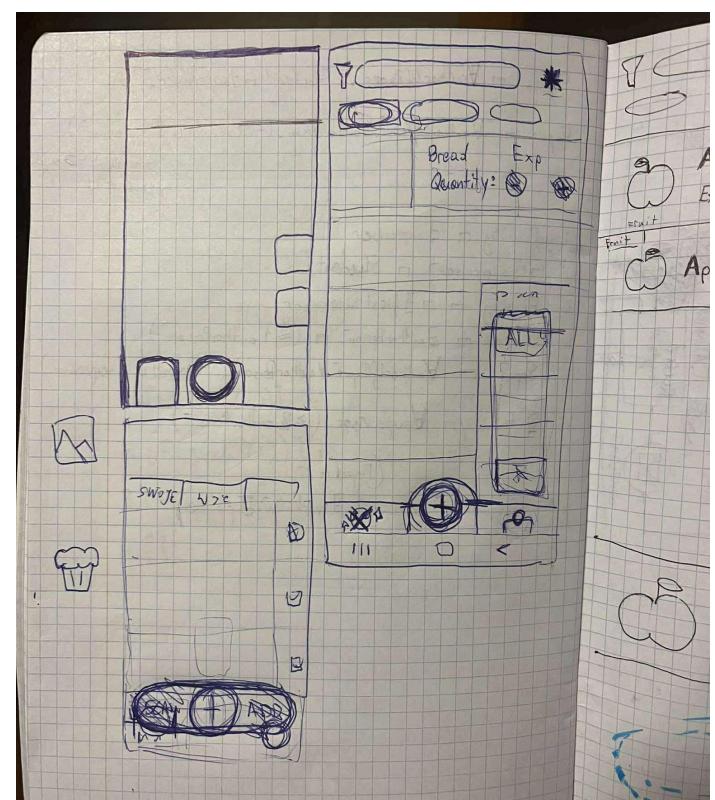
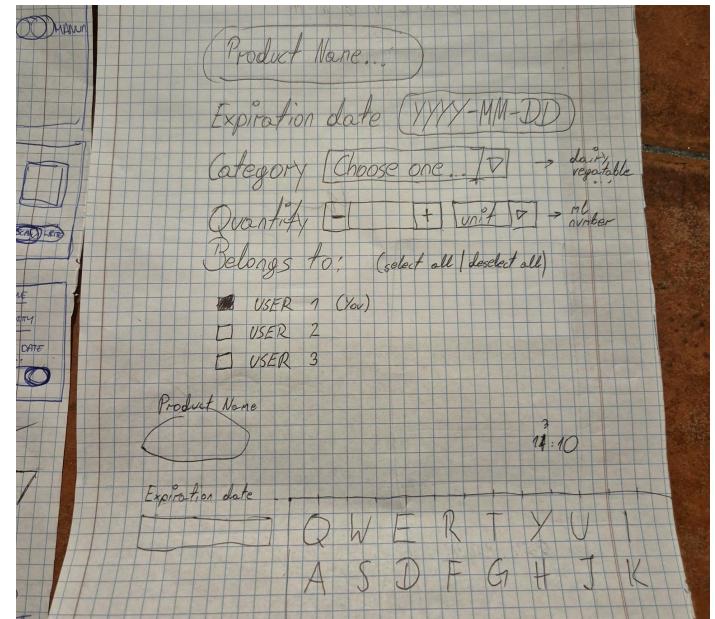
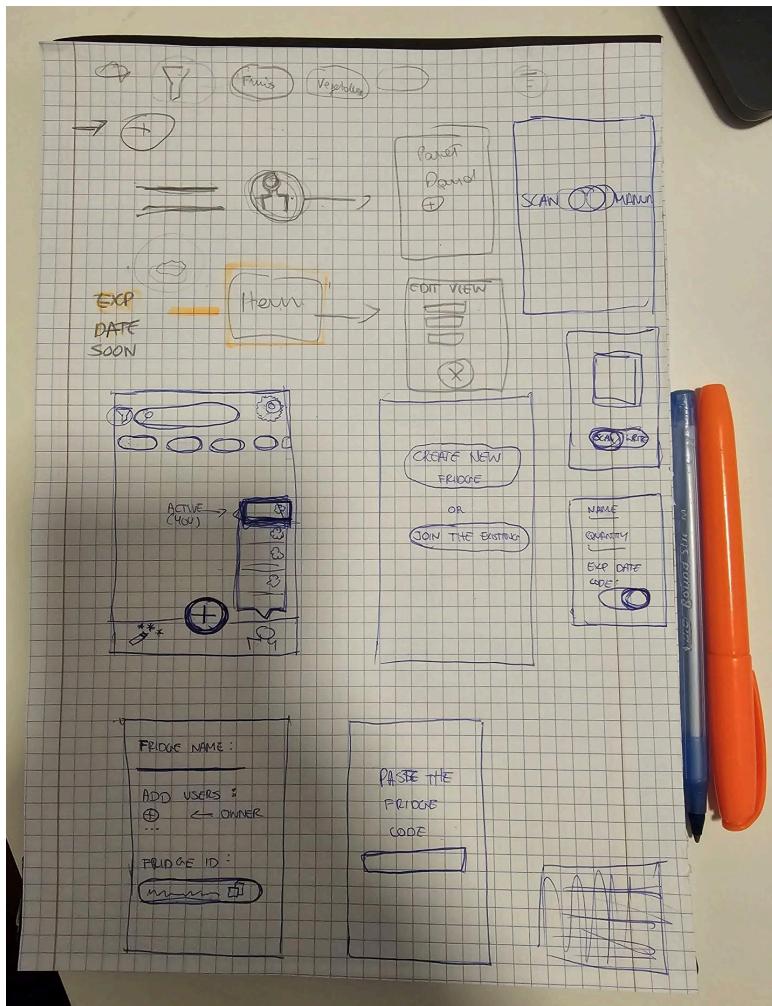
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Group Nº 6

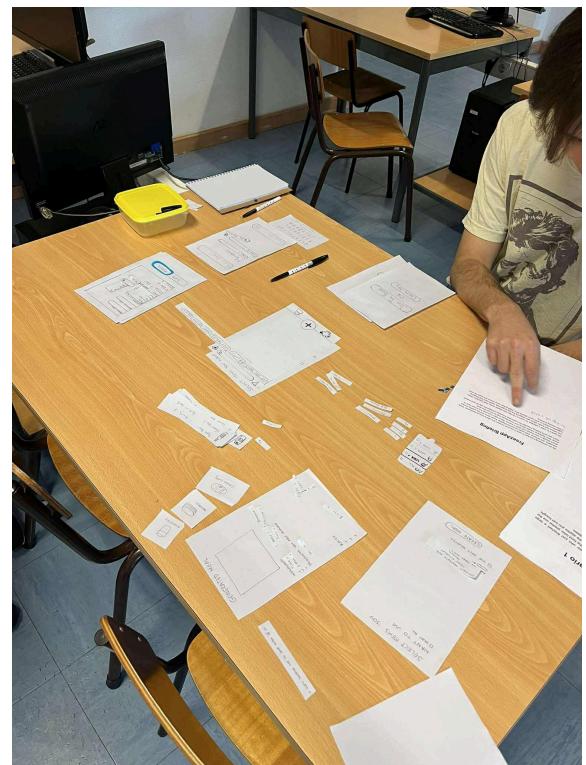
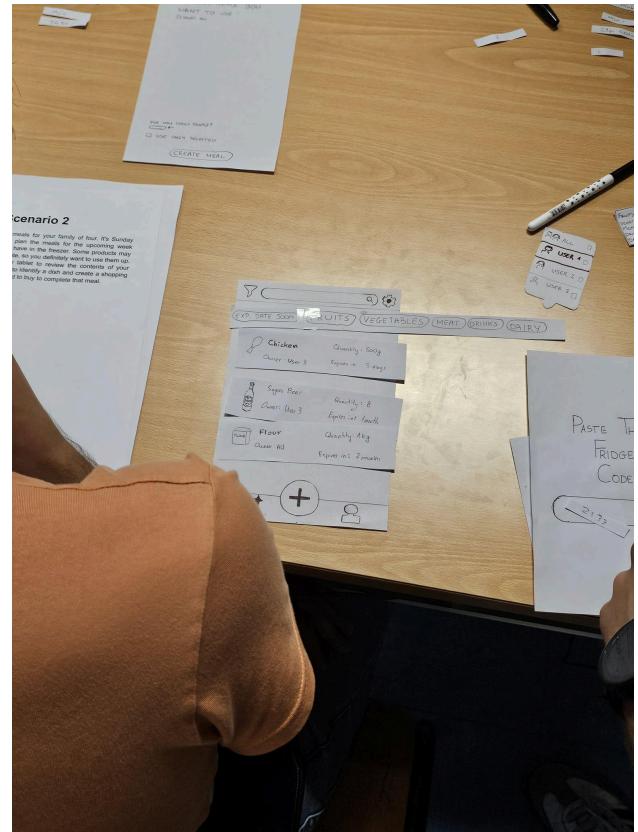
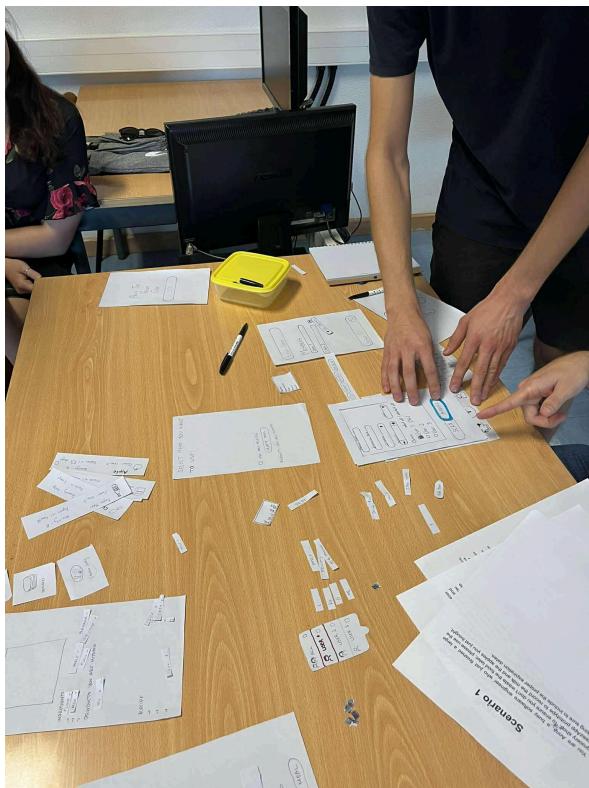
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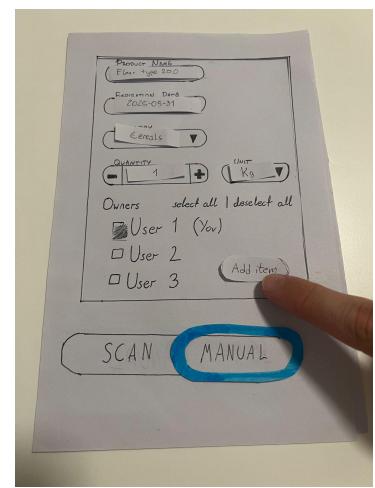
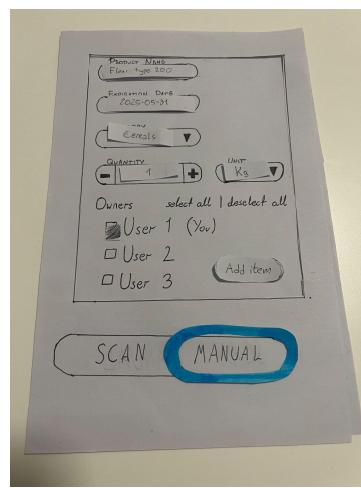
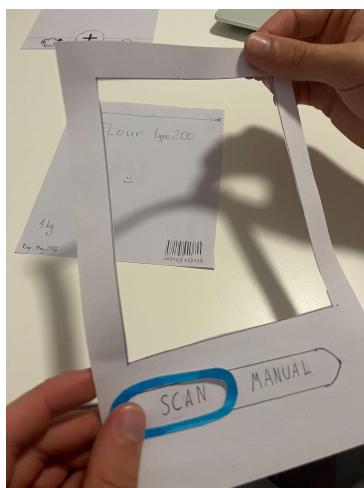
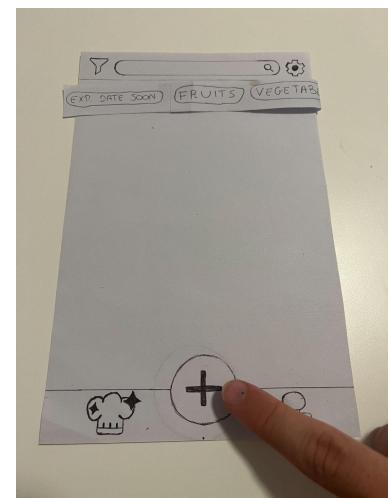
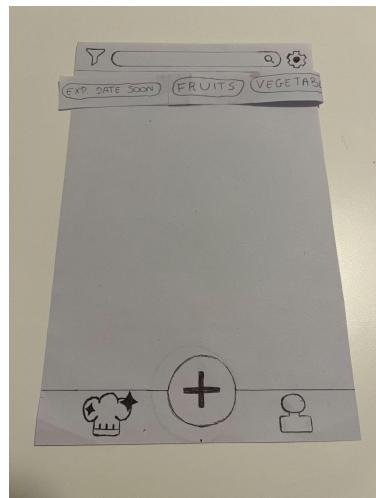
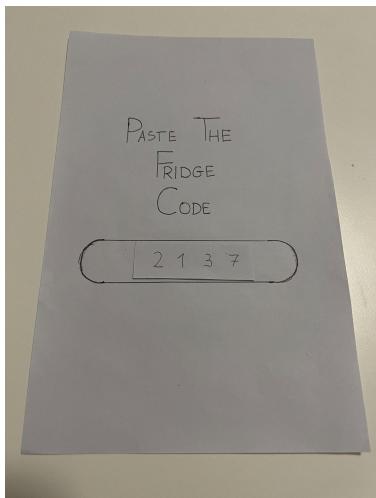
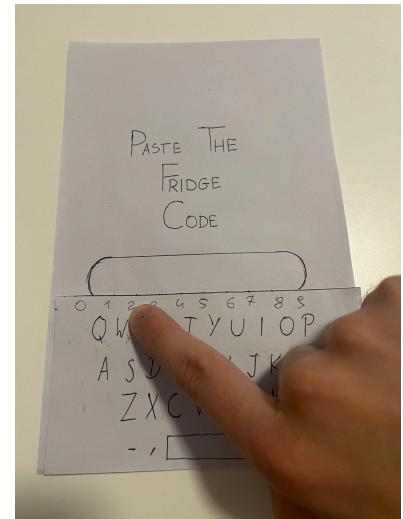
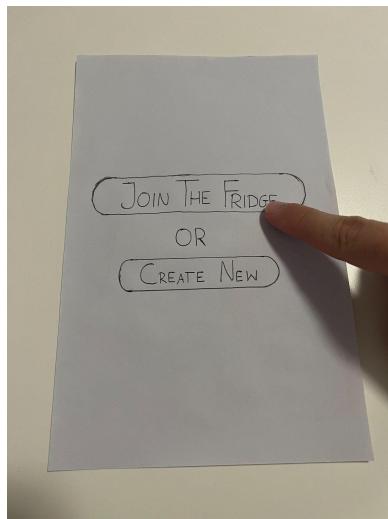
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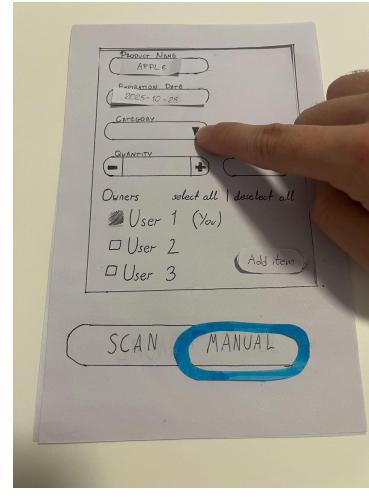
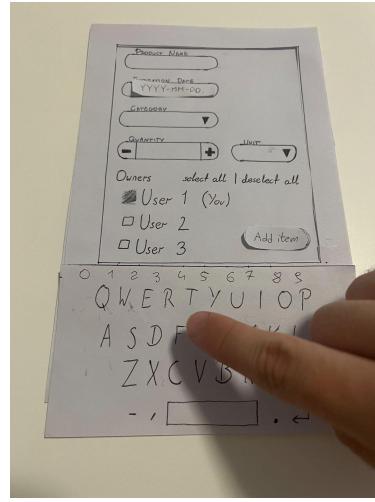
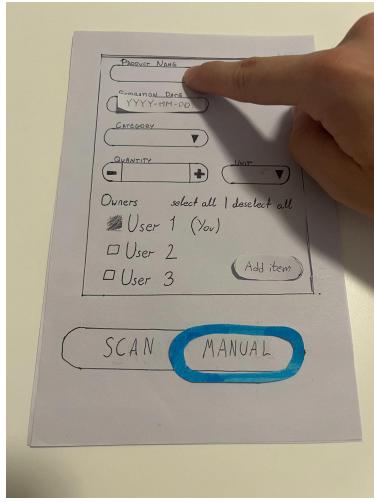
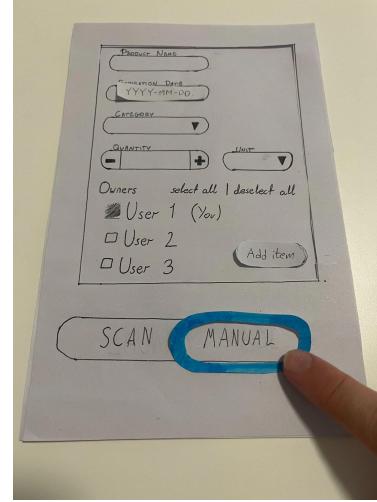
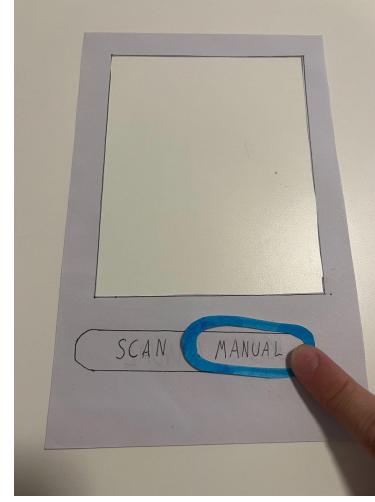
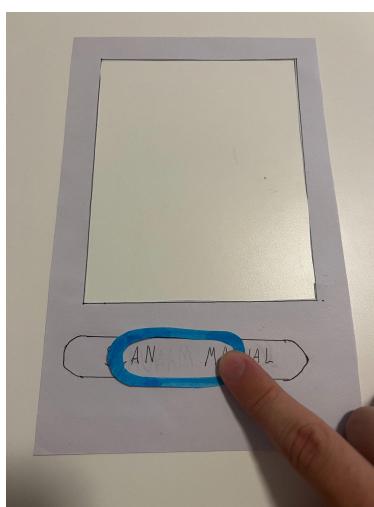
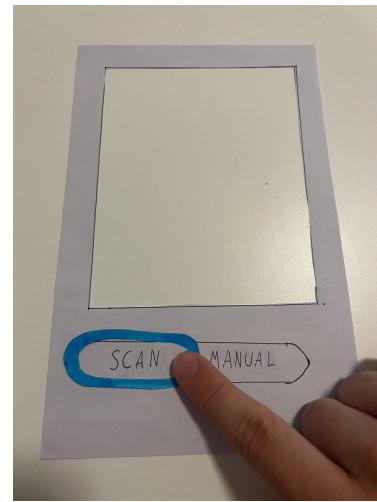
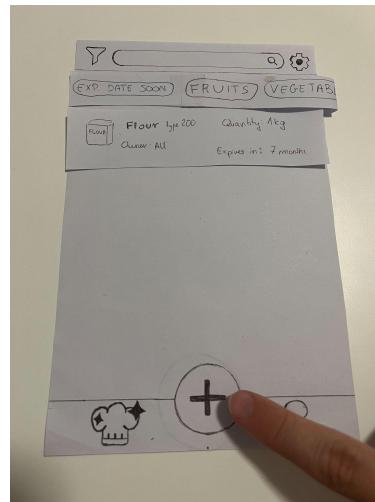
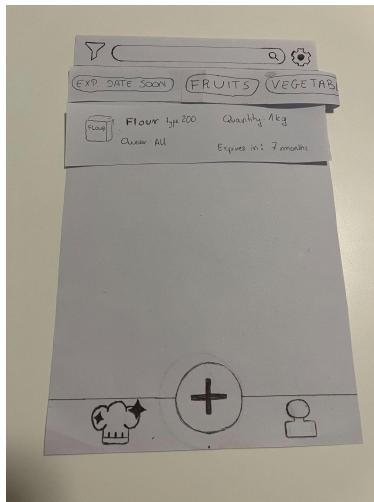


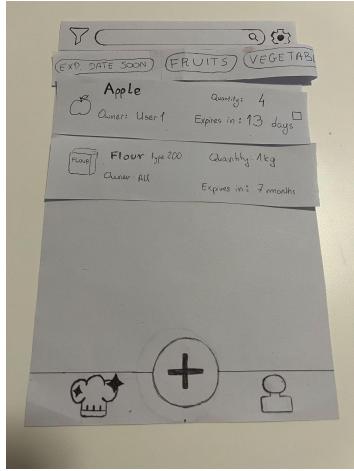
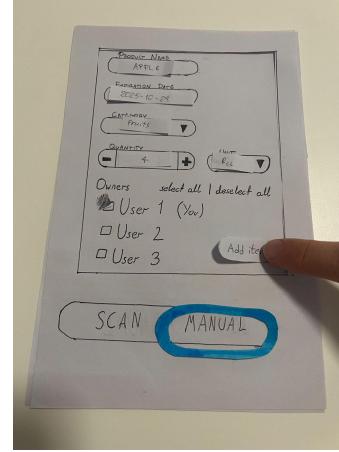
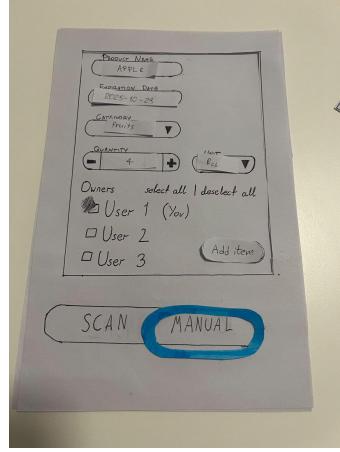
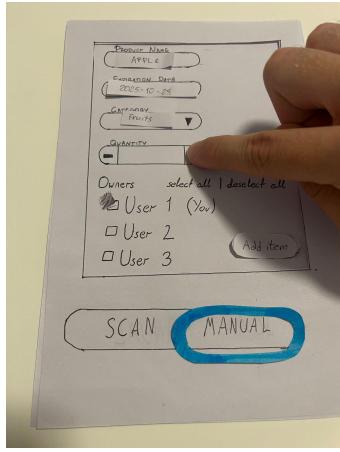
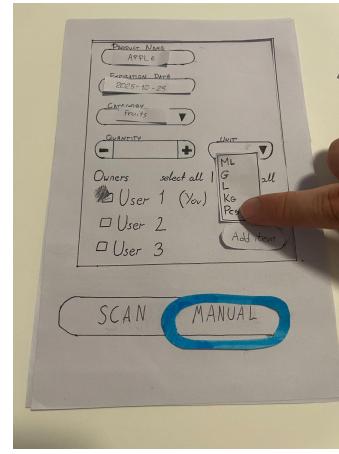
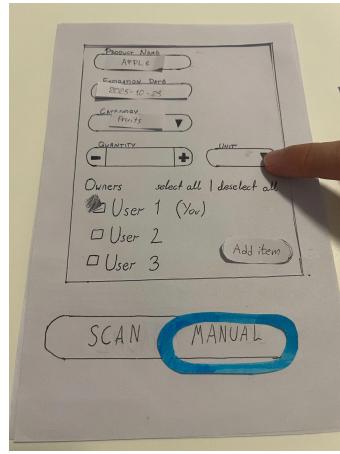
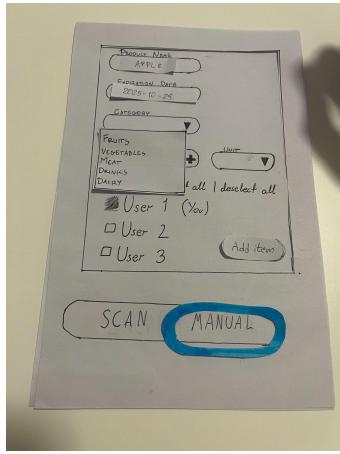
2. Prototype Photos



3. Storyboards - example of scenario 1







4. Briefing

We are developing FreezApp to solve a common problem that affects busy professionals, family managers, and students: food waste caused by forgotten frozen items and the inability to track what's actually in your freezer and when it expires. We've seen how easy it is to lose track of frozen food, leading to wasted money and unnecessary trips to the grocery store. That's why we're building FreezApp as a dedicated inventory management app for your freezer. Our goal is to make it effortless for users to manage their freezer stock, track expiration dates, and reduce food waste. We're also designing the app to generate useful meal and shopping suggestions based on what users already have, helping them save money and make the most of their existing inventory.

5. Scenarios

- Scenario 1

You are Anna, a busy software engineer who just finished grocery shopping. To ensure you don't waste the food later you want to save info about 4 apples and 1 kg of flour you just bought, making sure to include the proper expiration dates. (Suppose apples expire in 13 days.)

- Scenario 2

You are Marta, managing meals for your family of four. It's Sunday morning, and you want to plan the meals for the upcoming week based on what you already have in the freezer. Some products may be nearing their expiration date, so you definitely want to use them up. You open FreezApp on your tablet to review the contents of your freezer and then use the app to identify a dish and create a shopping list for any ingredients you need to buy to complete that meal.

- Scenario 3

You are Christoph, living with three roommates and sharing a freezer. You're planning a movie night tonight. Before heading to the store to buy any snacks, you want to see what everyone else already has in the shared inventory. You go to a store and buy an 8-pack of beer and 2 bananas. You want to add them to your inventory in the freezer. (Suppose the bananas expire in 4 days)

6. Observations

Our prototype testing highlighted a few key areas for improvement. To truly prevent food waste, the main item list must automatically show items by their expiration date, pushing the oldest items to the top. This functionality requires clearer visual alerts, so we will use color-coding (like red highlights) for items nearing expiration, because a basic text list is too easy to miss. For error prevention, the 'Add Item' button must not work until all important details (like the expiration date) have been typed in. Finally, we must address clarity issues: the icons for 'Add Item' and 'Create a Dish' aren't clear and need redesigning, and the filter label 'Use only selected' is too unclear and needs a clearer name to explain what it does. For our multi-user feature, the meal suggestion area needs a new filter to let users limit recipes based on which person owns the ingredients.