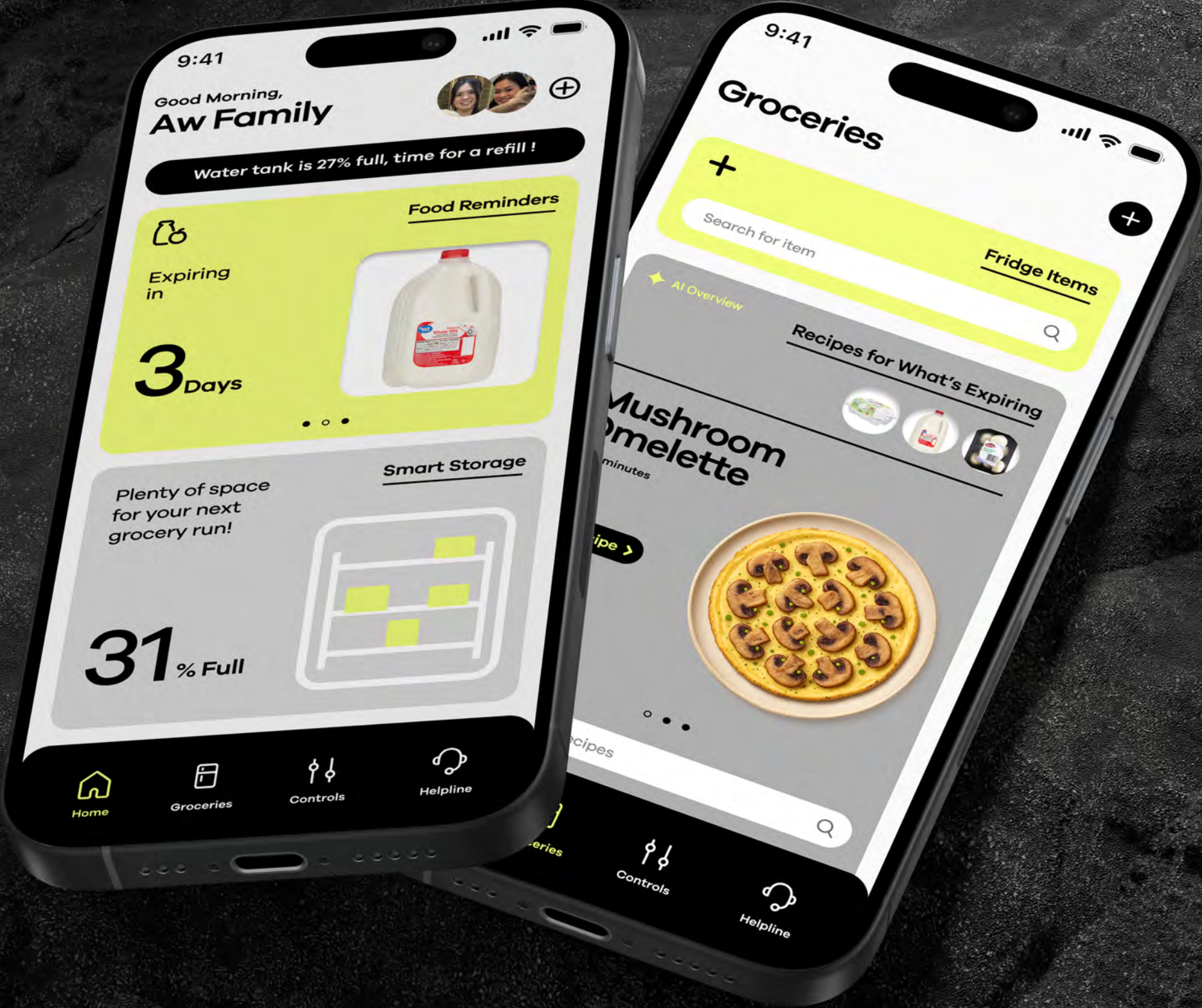
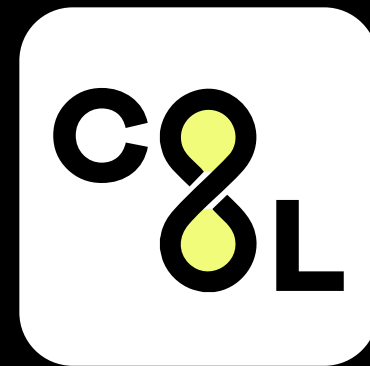






COOL FRIDGE

Smarter. Simpler. Cooler.

COOL brings a touch of ease to everyday routines — helping you see what's fresh, what's low, and what's next, all at a glance. Designed for fast days and slow mornings alike, it turns your fridge into a quiet helper that keeps up with you.

78%

Food waste

9 out of 12 participants said they occasionally forget food in the fridge until it expires.

67%

Tracking method

8 participants rely on memory or visually checking instead of using any system.

58%

Cluttered Space

7 participants mentioned the items made their fridge too messy and cluttered and they often forget about the items.

64%

Smart-home adoption

8 participants have used at least one smart device (e.g., speaker, lights).

What is the issue ?

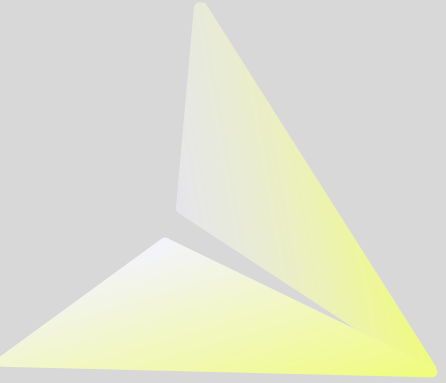
Survey Overview

A short online survey was conducted with **12 participants** aged 21–45, focusing on food-storage habits, convenience needs, and smart-appliance awareness.

Insights



① People need clear reminders and expiry alerts.



② There's a chance to make food tracking automatic and easier.



③ The app should encourage users to maintain an organized and efficient space.



④ People are open to connecting their fridge to an app.

Problem Statement

**People love convenience,
but their fridges aren't keeping up.**

My research showed that most users
rely on memory to track food, often
forgetting expiry dates until it's too late.

How Might We ?

**How might we make fridge
management feel effortless by
turning daily maintenance into simple,
intuitive moments of convenience?**

I translated the insights gathered along the way into my final design solution.



Simplify fridge tracking
Encourage mindful storage habits
Connect reminders with useful actions

User Flow



COOL FRIDGE

Connect
to WIFI

Home

- Add Family Members
- Food Expiry Summary
- Water Tank Tracker

Groceries

- Add Grocery
- Fridge Items
 - Search
 - Edit
 - Delete
- Recipes for What's Expiring
 - See Recipes
 - Explore New Recipes

Controls

- Fridge Opened
- Water Tank Level
- Fridge Temperature
- Freezer Temperature
- Make Ice
- Save Energy
- Opening Alert

Helpline

- Frequently Asked
- Live Chat
 - Question Prompts
 - Chat
- Email Us
- Feedback

Home Screen

Designed for quick awareness, the Home screen summarizes your fridge's condition, helping users act before problems arise.

1 Water Tank Reminder

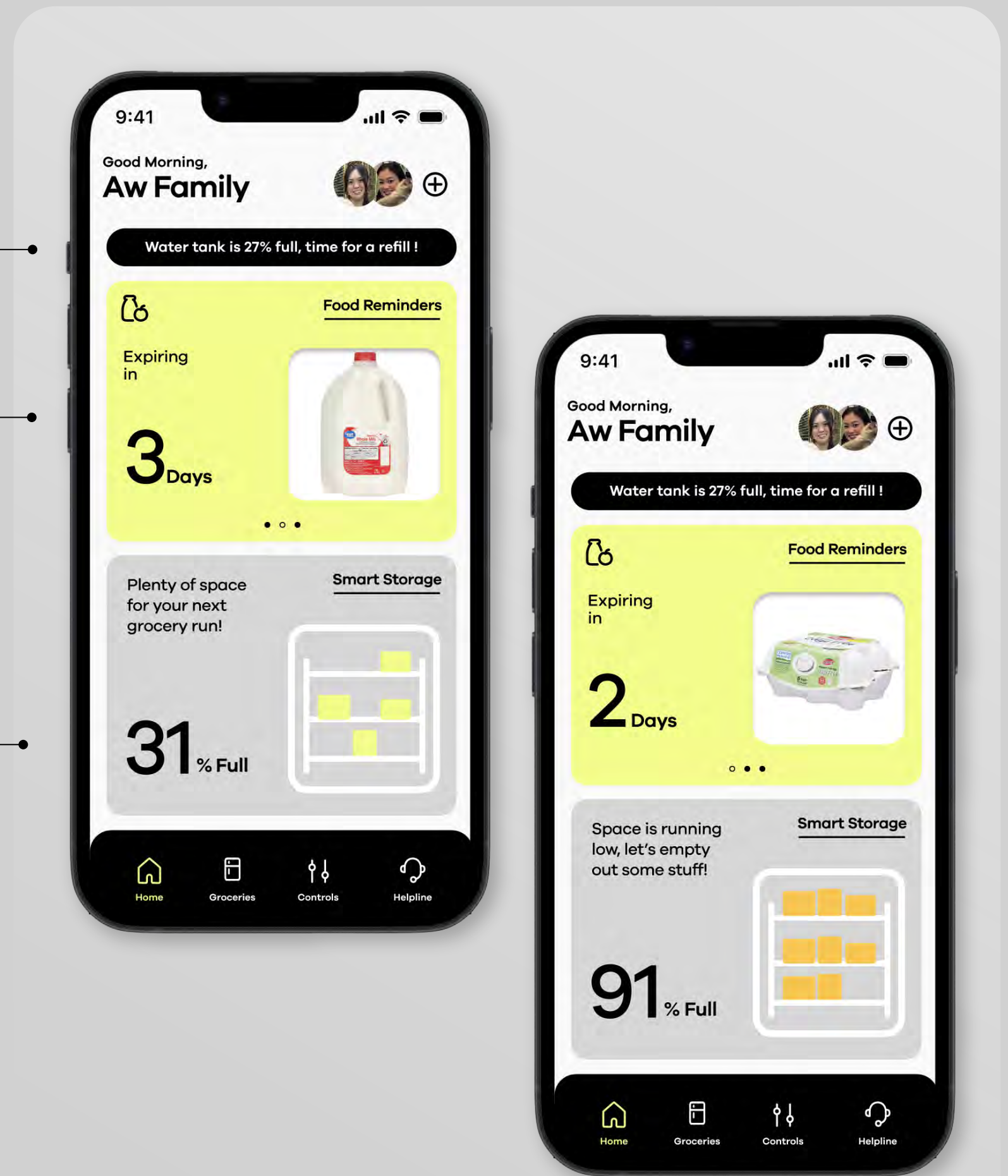
A gentle status bar notifies users when the water tank is running low. Instead of alerts, the system uses clear copy ("Water tank is 27% full — time for a refill") to encourage upkeep without stress.

2 Food Reminders Summary

Displays key items nearing expiry with friendly visual emphasis — large countdown numbers and familiar imagery. Users can swipe through reminders for quick checks before grocery runs.

3 Smart Storage

Powered by spatial sensing, the Smart Storage card visualizes how full the fridge is. Whether it's "31% full" or "91% full," users get a quick sense of available space and a prompt for tidy-up or restock.



Groceries Page

A clear and intuitive space to manage what's inside your fridge — add, track, and turn soon-to-expire ingredients into easy recipes.

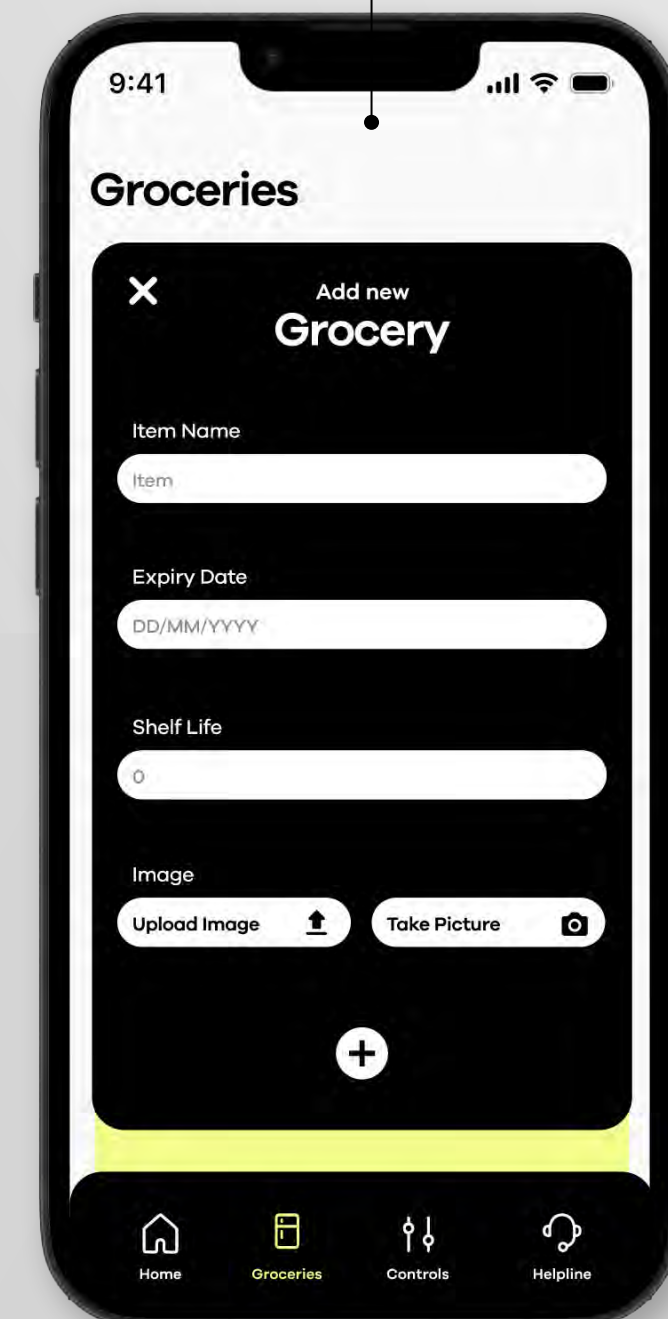
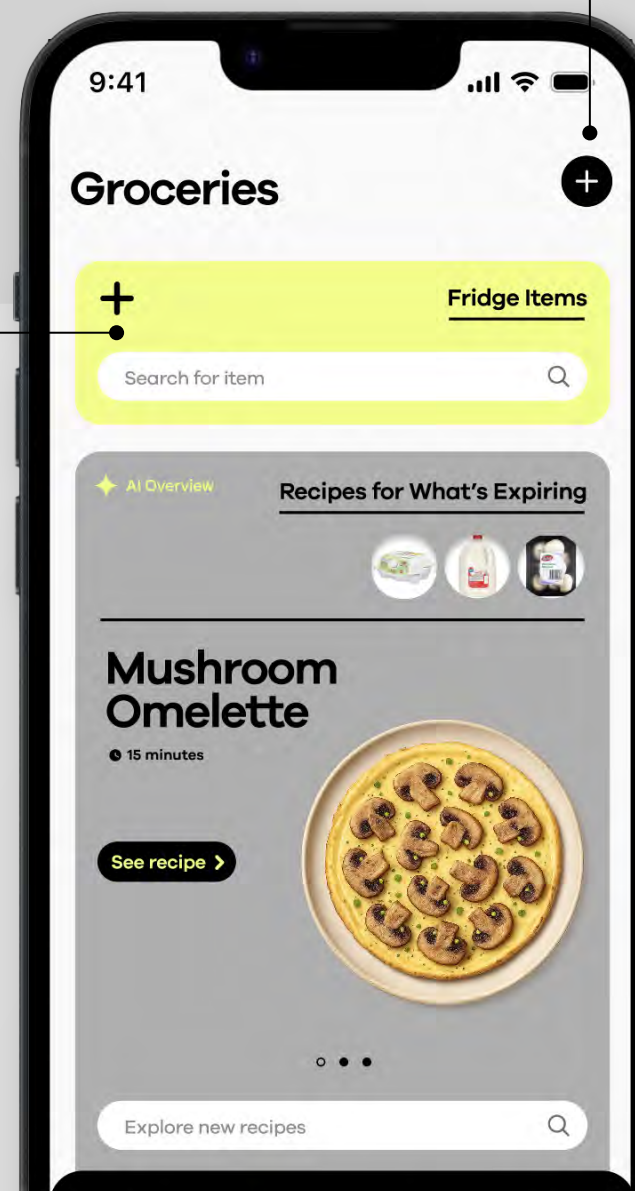
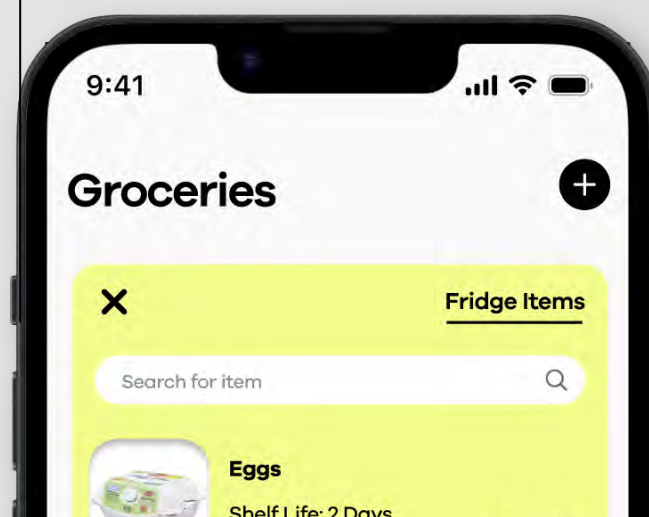
1 Add Groceries

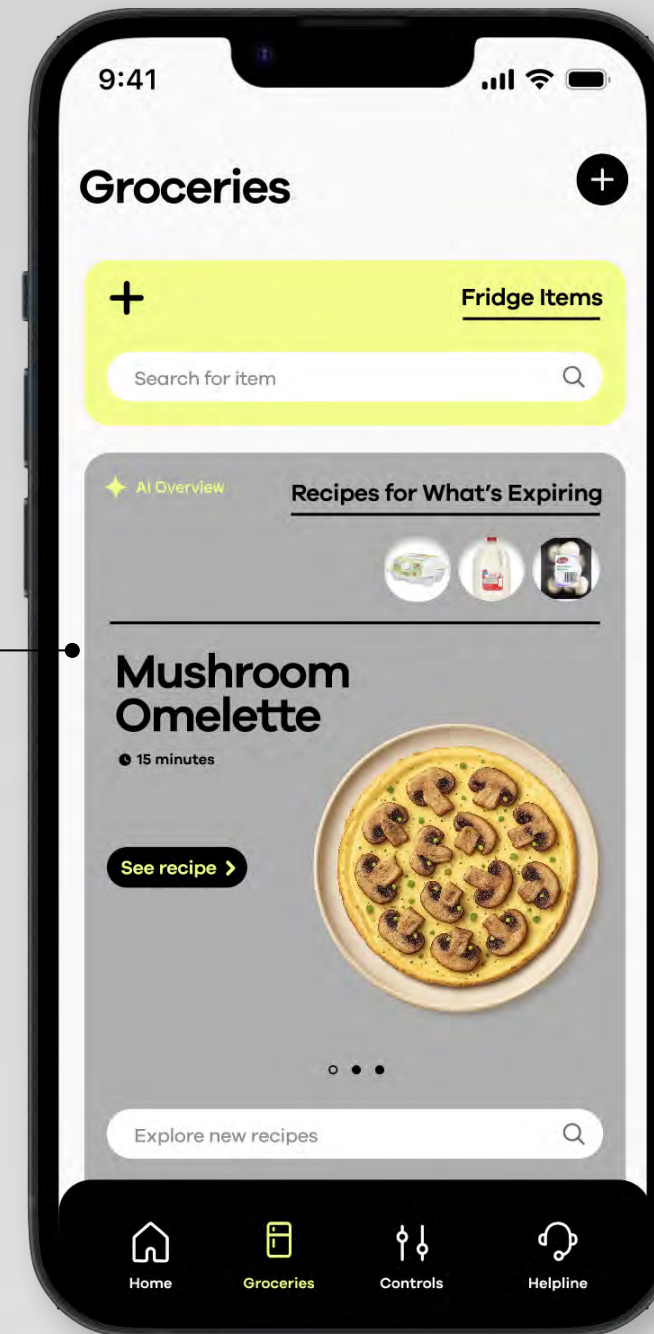
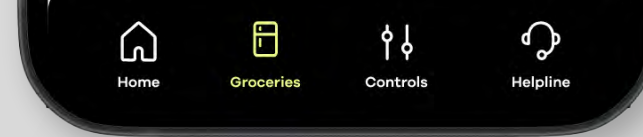
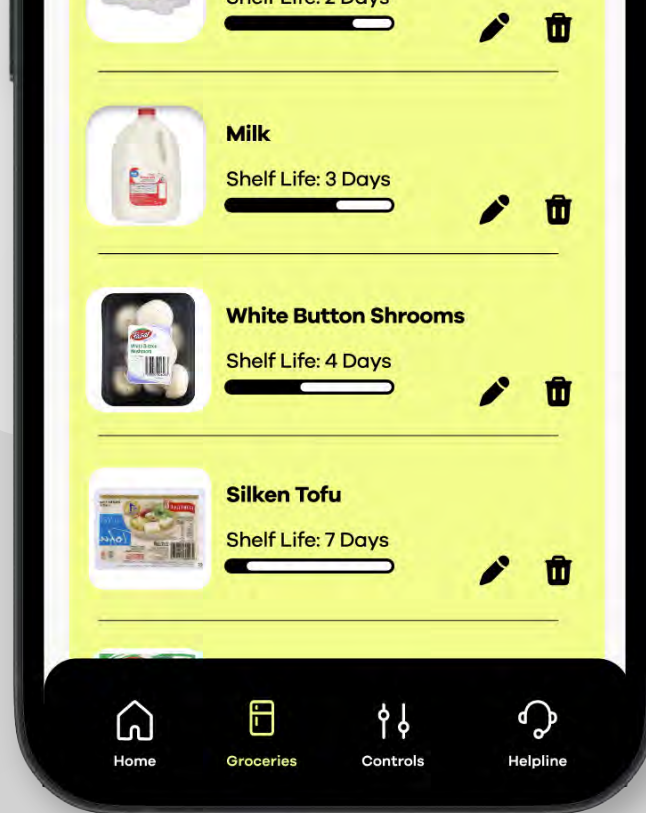
A simple input form allows users to quickly log new items with expiry dates and photos.

Each entry can be uploaded manually or captured through the camera, helping maintain an accurate inventory with minimal effort.

2 View, Edit, and Delete Items

Users can open their fridge inventory at a glance — each item is displayed with its image, remaining shelf life, and quick edit or delete options.





3 AI Overview — Recipes for What's Expiring

Powered by an AI model, the app generates recipe suggestions from ingredients that are about to expire — turning reminders into meaningful meal ideas.

Users can view these smart recommendations under "AI Overview" or search for new recipes through the "Explore Recipes" bar.

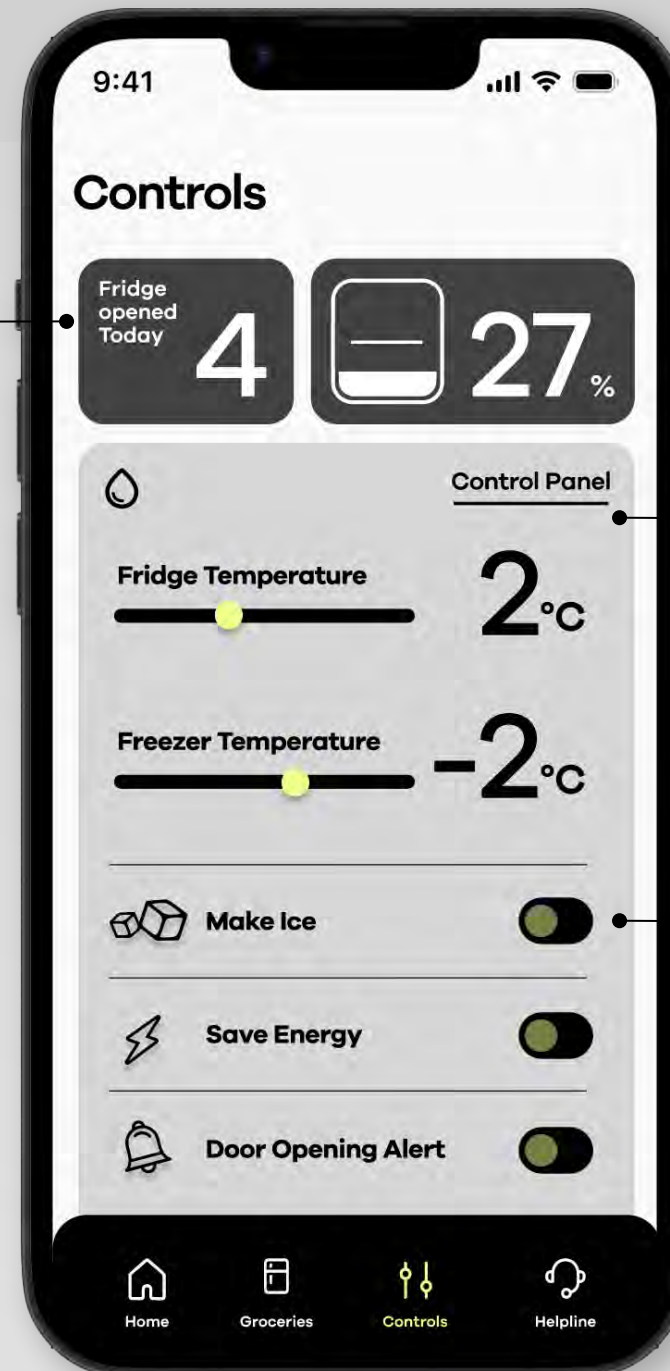
Controls Page

A clean and intuitive interface that centralizes all essential fridge settings — letting users fine-tune temperature, track usage, and maintain efficiency in one glance.

1 Usage Insights

The page also visualizes activity, showing how many times the fridge was opened today and current water tank capacity.

These small but meaningful indicators help users stay mindful of daily habits and system status.



2 Temperature Controls

Users can adjust fridge and freezer temperatures using tactile sliders for precise control. Real-time feedback ensures that changes are visible and accurate.

3 Quick-Action Toggles

Essential functions like Make Ice, Save Energy, and Door Opening Alert are accessible as single-tap toggles.

These allow immediate adjustments without navigating deeper menus.

Helpline Page

Designed to offer calm, human-centered support — users can find answers, chat live, or leave feedback without leaving the interface.

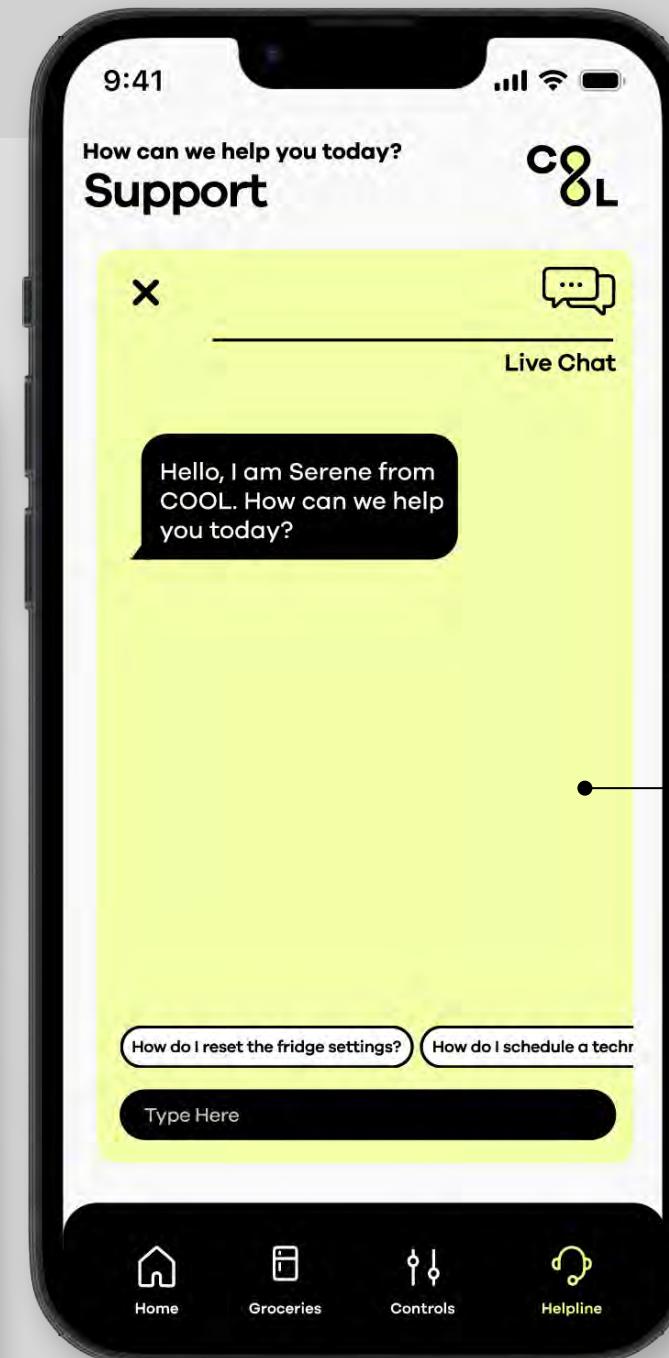
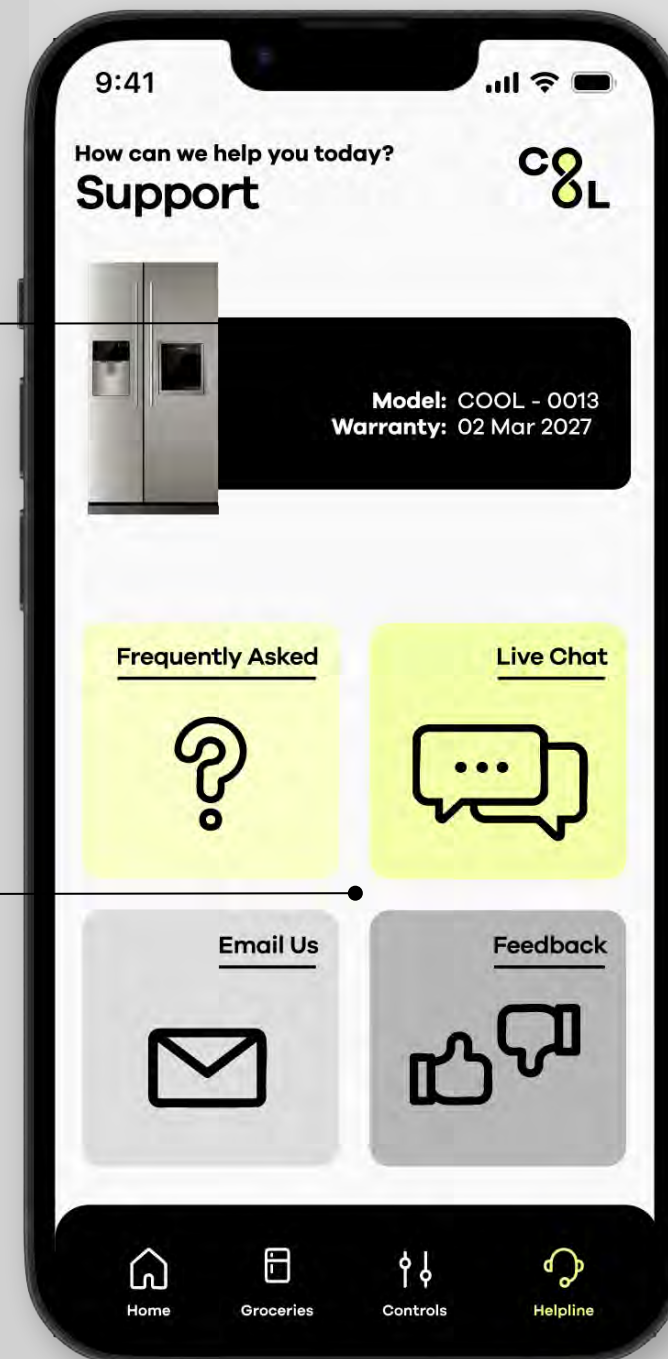
1 Quick Access to Key Info

The top panel displays the user's fridge model and warranty status, making it easier to report issues or request service without searching elsewhere.

2 Clear Support Options

The Helpline offers four clear entry points: Frequently Asked, Live Chat, Email Us, and Feedback, allowing users to choose how they want to get help.

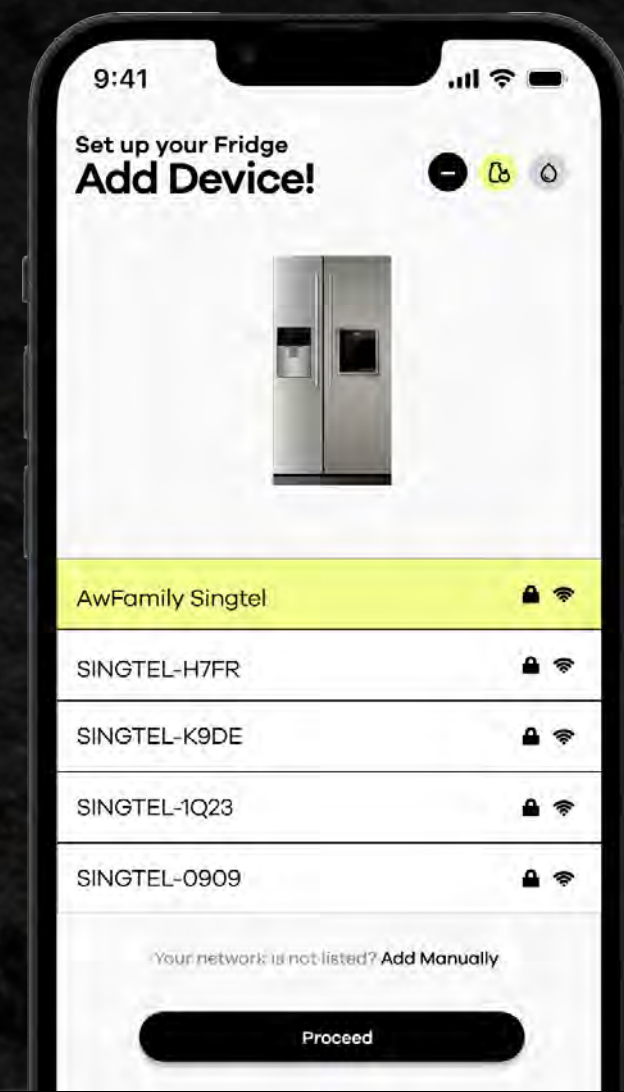
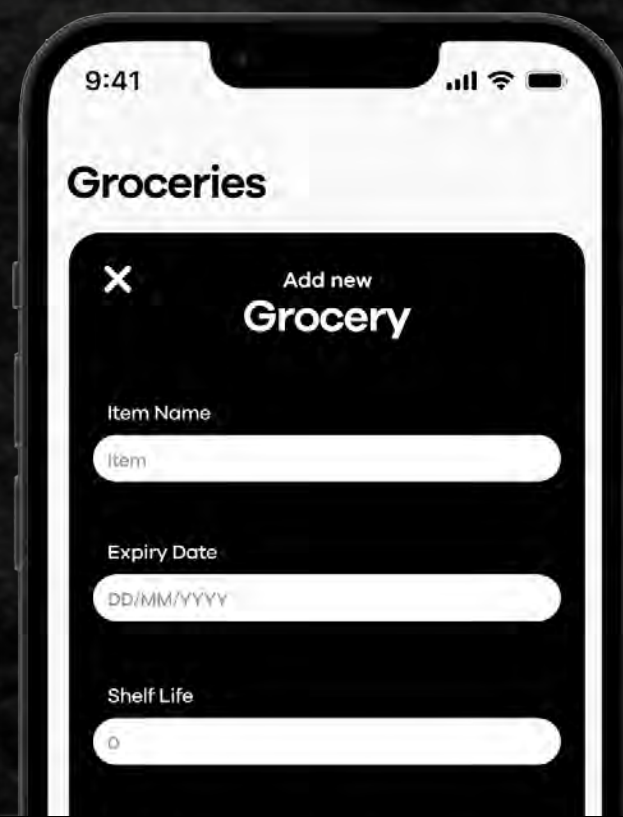
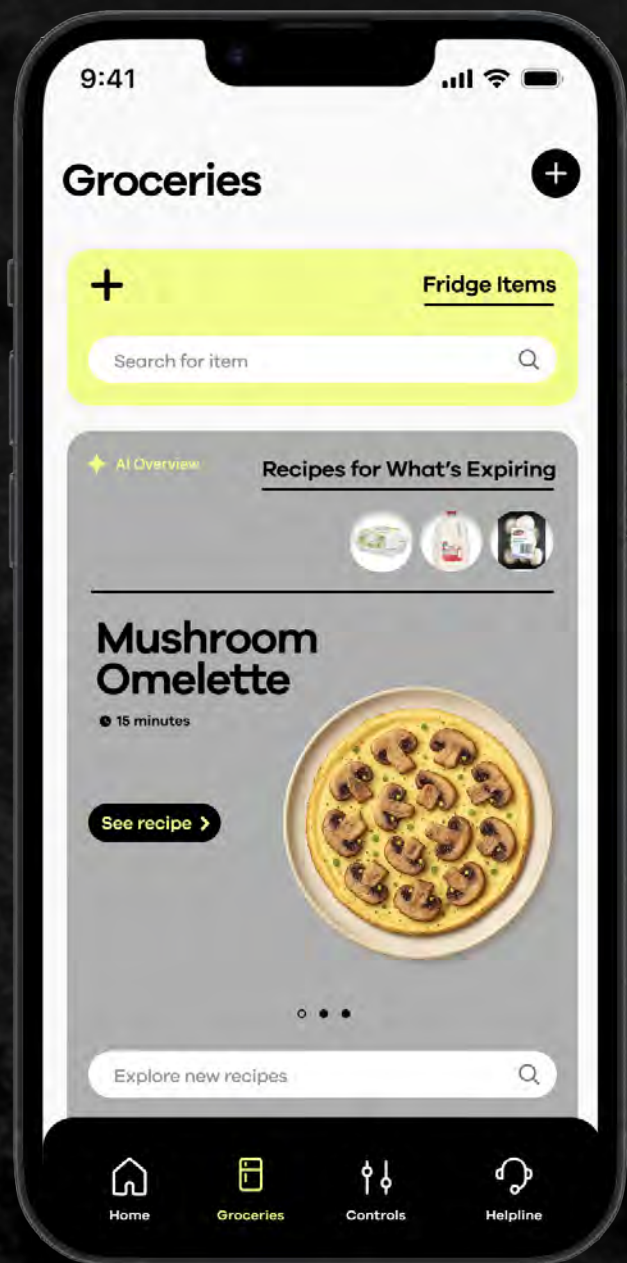
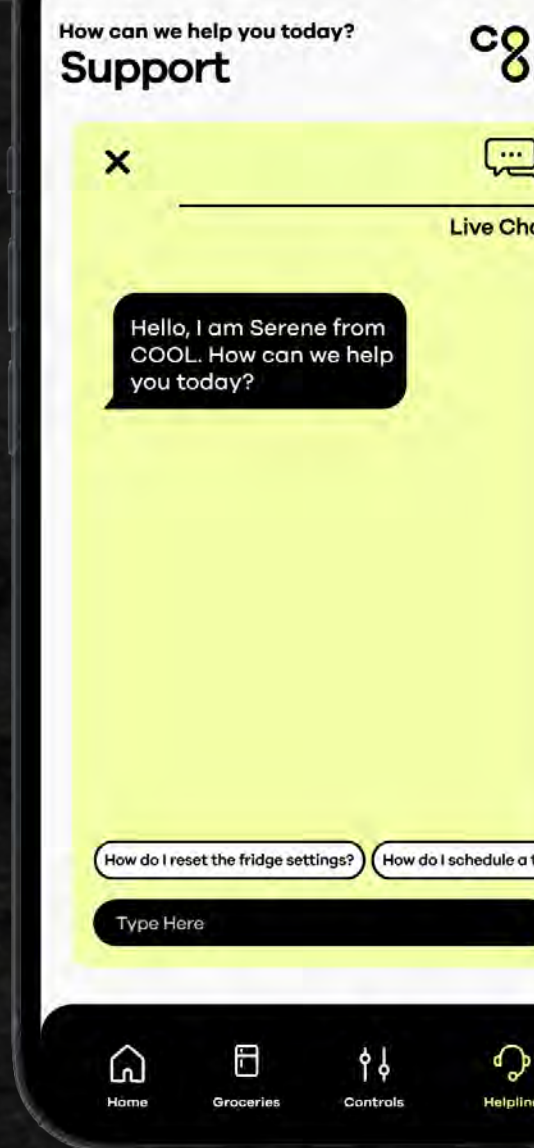
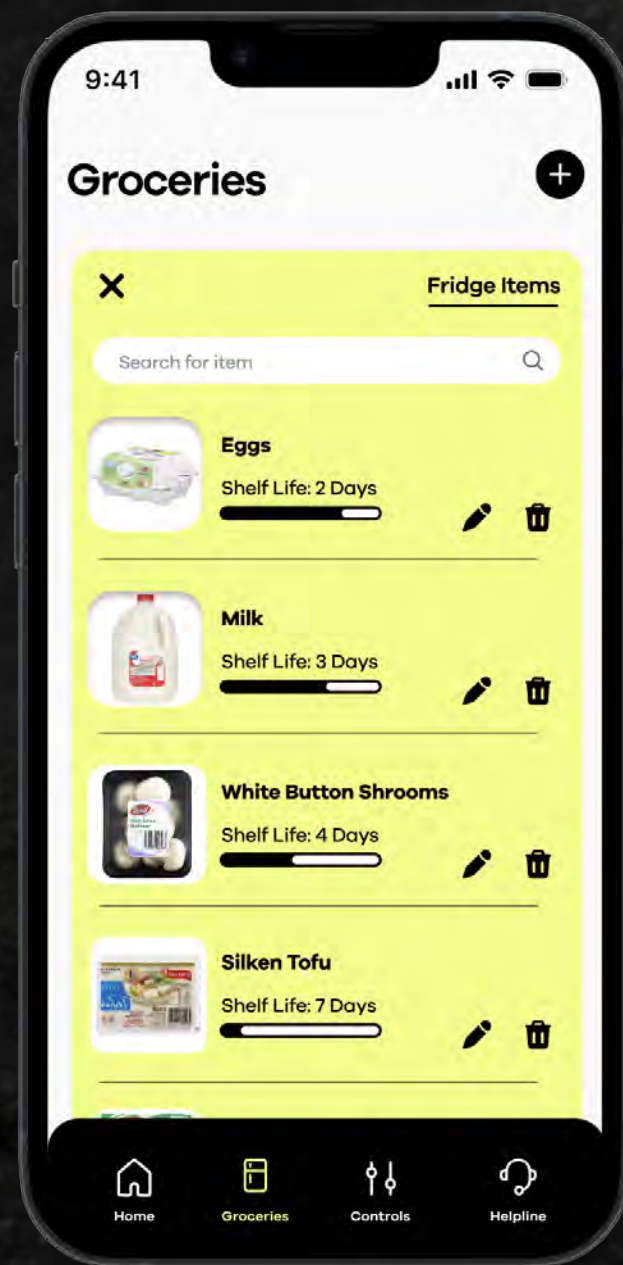
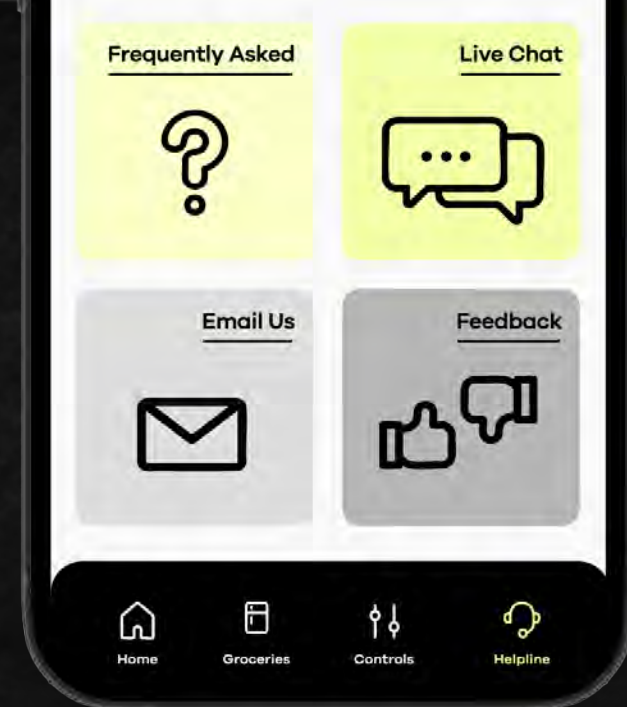
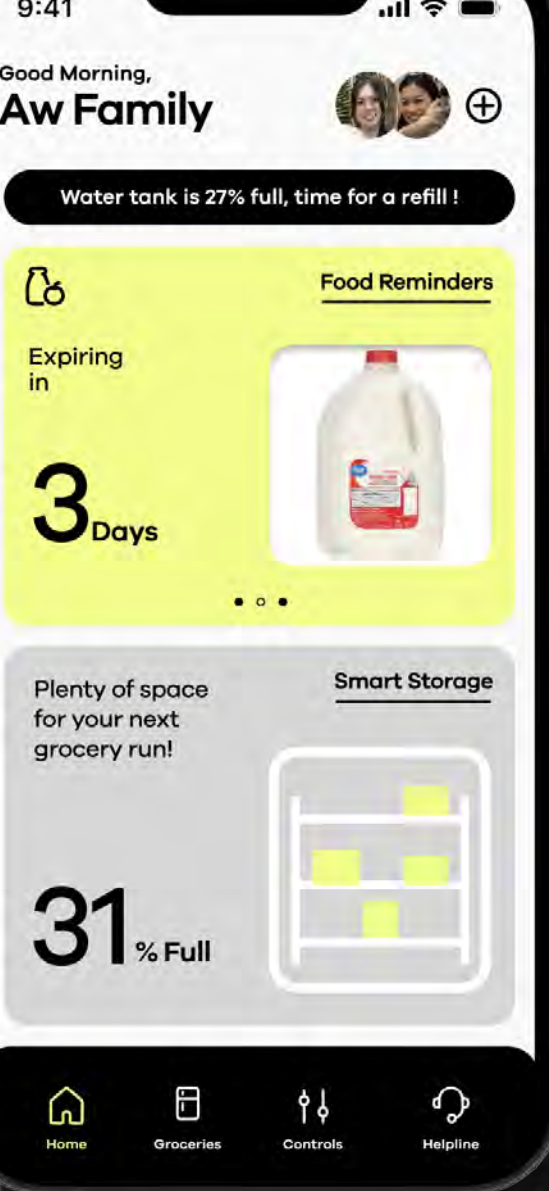
The layout uses large, tactile buttons for quick recognition and accessibility.



2 Live Chat with Prompt Suggestions

The Live Chat opens with a warm, conversational greeting and provides pre-set question prompts to speed up the process.

This design blends automation and empathy — saving time while keeping the tone approachable.



Reflection & Future Steps

01

Reflecting..

This project pushed me to think not just as a designer, but as a user — questioning what real convenience looks like in daily life. It challenged me to design for both clarity and intelligence, creating a system that feels smart yet effortless.

Integrating AI showed how data can become empathy, turning expiring groceries into meal ideas and fridge stats into meaningful insights.

Spatial tracking expanded this thinking beyond screens, where design anticipates needs in the physical world.

02

Future Steps

If given more time, I would explore A/B testing between two interface variations using the current design components.

For example, comparing how users respond to a more visual layout for expiring items versus a condensed list layout could help determine which encourages quicker action.