

by: Food Designers

PantryShare

Experience smarter kitchen, more organised and waste-free!



Problem Space

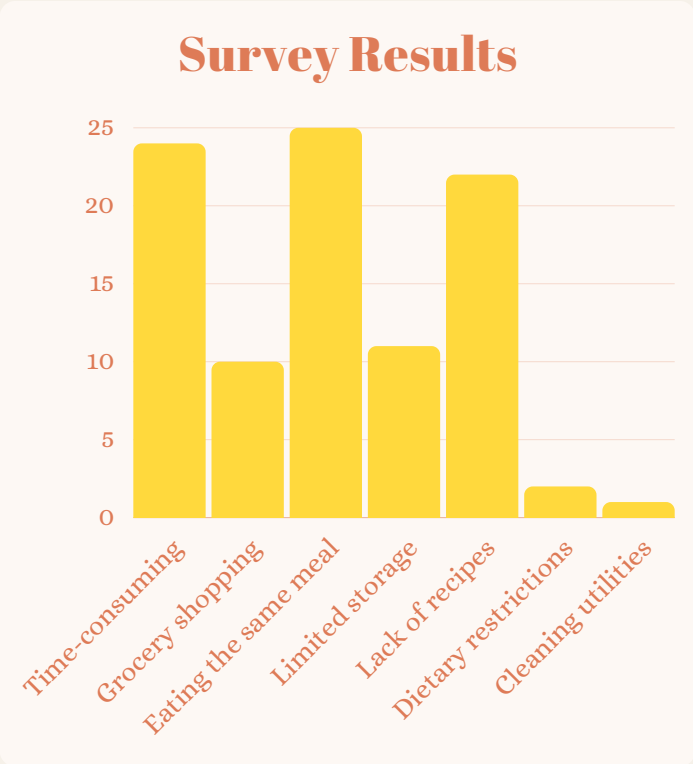
Domain

Cooking habits and ingredients management for international students at shared kitchen on accommodation

Findings from Research

Challenges identified from literature, survey, and interviews:

- Meal planning
- Managing ingredients
- Food waste
- Lack of recipes
- Grocery shopping
- Diverse dietary preferences



Concept

We focus on fulfilling the students' needs and minimising the threat of potential food waste, which offers a sustainable solution for students and their accommodation.

Integrate pantry management

Recipe selection

Ingredient tracking

Dietary and cultural variation

Social Concept

Students are **aware** of managing ingredients and minimising food waste by **sharing** their ingredients.

Mobile Concept

Specifically designed **location-specific** in the kitchen area.

Design Process

In the process, we made iterations of our concept based on user insights and teaching team feedback. Check the details on our WIKI page on bit.ly/fooddesigners24

Stand Up 1

Initial concept:
A sharing recipe platform with a device on each kitchen throughout the accommodation.

Accessible via personal devices for adding recipes, commenting, rating.

User research:

- Tastes and cultural backgrounds
- Find recipes that fit their diet
- Need for flexible and easy-to-use platform

- Need to emphasise the social & mobile concept more
- Focusing on the entire user experience and specific problem
- Enhance the interaction beyond traditional interaction

Main focus:
to support students' cooking habits and minimise food waste

Social concept:
awareness of excessive and sharing ingredients

Mobile concept:
Location-specific and context-specific

Prototype:
Build a lo-fi prototype

Initial user test:

- The interaction flow is easy to follow
- No difficulties other than some unfamiliar icons
- Suggestion on a comprehensive guidance for the pantry

- Consider using social computing to detect sharing activities
- Try to have another test on the social concept

Final Design

Kitchen Display

The display is on the kitchen table and integrated with a website. The design improved based on the user feedback.

Storing Ingredients on Pantry

BEFORE

Users need to scroll and find their ingredients manually

Then, directed to new page to input the details

AFTER

Users can add their ingredients using button on the bottom right

The details entry is on pop-up

Community Pantry

A physical object where the users could store the ingredients they want to share. To access this pantry, users must **tap their room card** into the sensor attached.

