Tidbit A calories counting application

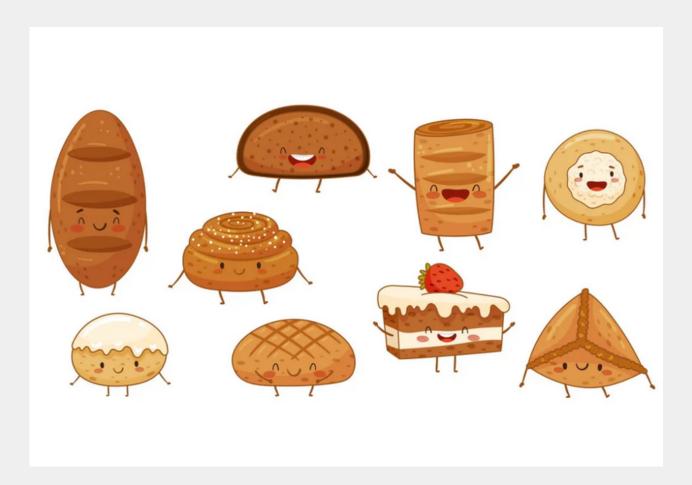
Team Name: Eaty Bitties

Team Members:

Minh Duc Nguyen
Thu Phuong Nguyen
Gail Rayla Emanuelle Parayno
Funda Hatice Oztoklu
Badraa BatUlzii

Tidbit

"a small piece of tasty food"



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Usability Problem

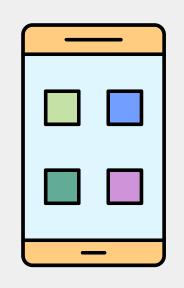


Usability Problem

To calculate the amount of calorie intake, people often have to roughly predict the following:

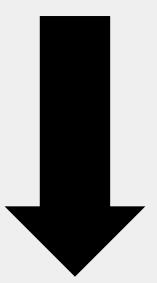






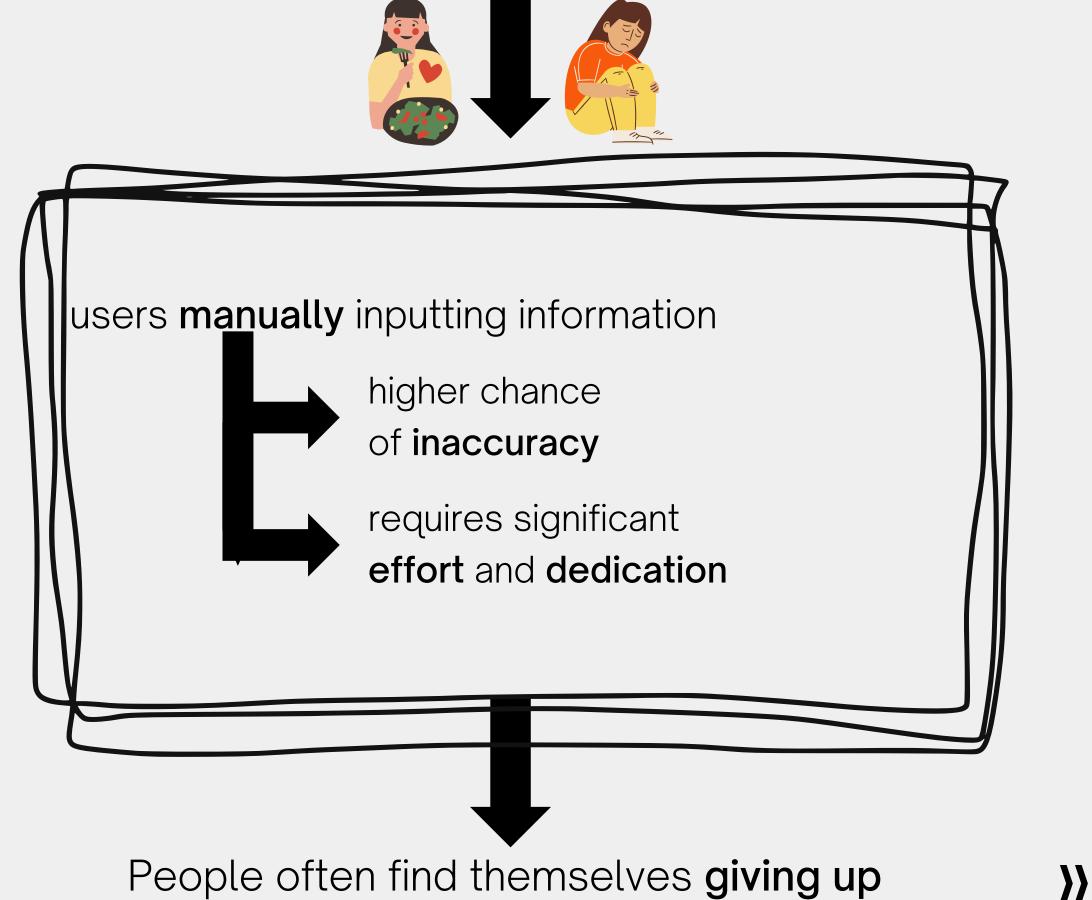
Usability Problem

common feature of the current applications



users have to **manually** input the amount of food intake

Usability Problem



Problem

People often find themselves **giving up** on calories counting applications.

Existing Solutions

A traditional way of keeping track of calorie intake



Users have to measure the portions of everything they eat and log it in a journal

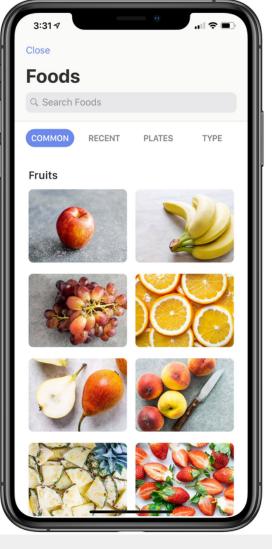
There are big downsides to this method as it is **a lot** of work and it's hard to see everything in a journal.

Calory

home page displays a bar **chart** with the percentage of calories consumed and remaining calories for the day

Existing Solutions







Calory

Existing Solutions



- includes **reminders** to log your calories
- food database linked to the basic USDA food database



- tracks daily calories only; premium upgrade required to track macros
- USDA database may be tricky to use
- syncs with Apple Health only



Existing Solutions

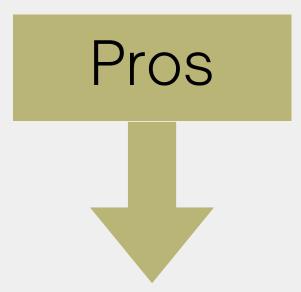
- barcode scanner
- accurate nutrition data
- intermittent fasting timer
- diet-specific support

no need for guesswork



disadvantage of the app is there is not as much information on fitness

LogMeal API: Al Food Image Recognition

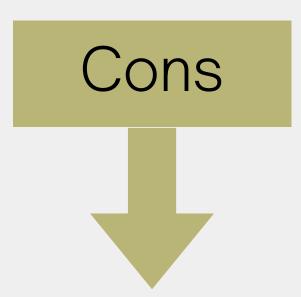


Existing Solutions



LogMeal API: Al Food Image Recognition

Existing Solutions

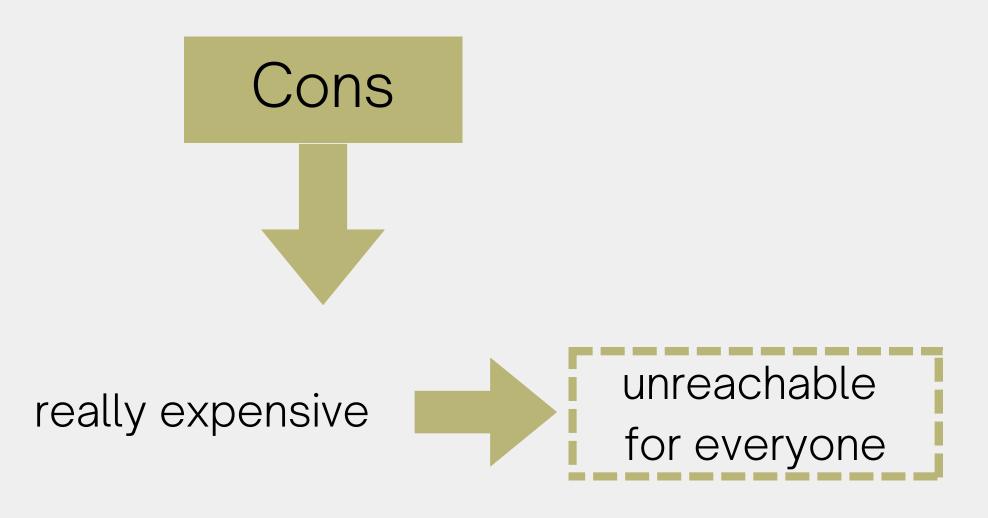


• Physical **kiosk** which consists of a scale, a camera and an user interface.



LogMeal API: Al Food Image Recognition

Existing Solutions





Proposed Solution

the main usability **problem** with the existing applications



manually entering the information about the meal and the calories of each food

Therefore

we intend to build an application that will **detect the meal from an instantaneously captured picture**and then **estimate the calories of each item** on
there.



Proposed Solution

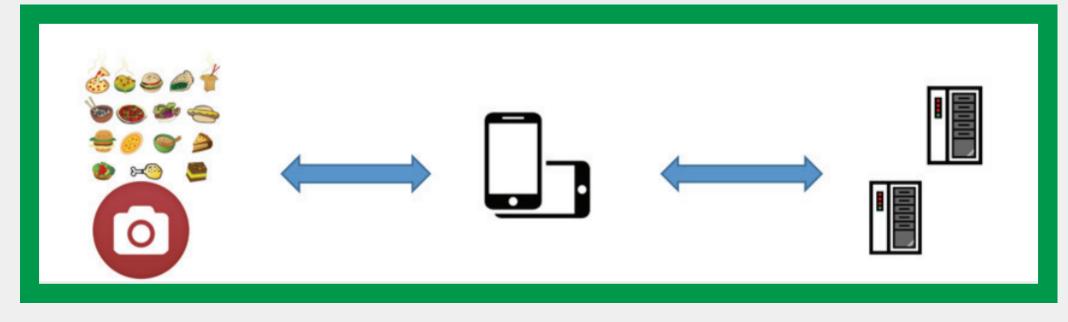
- The app will analyze ingredients and calorie information from the food image.
- The users might edit the quantities at their will.

anytime





Proposed Solution



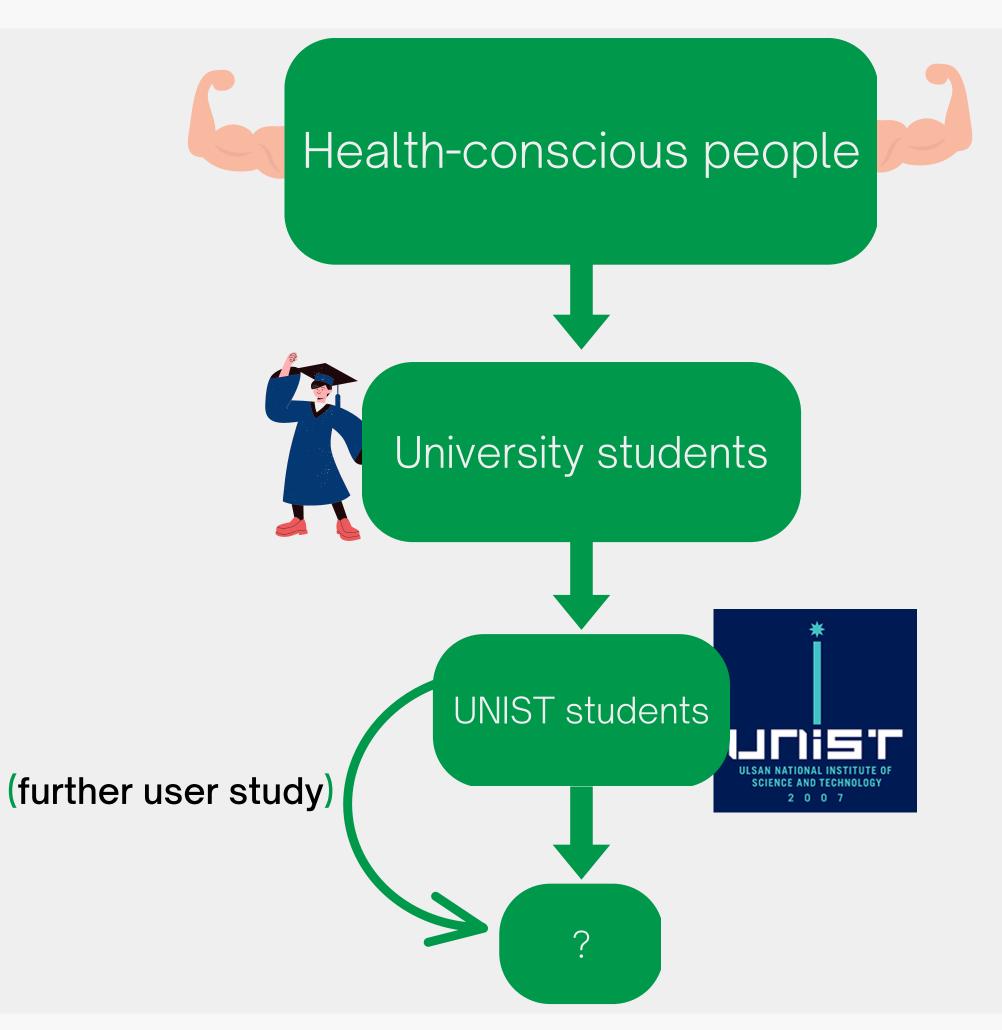
Foods

Take image by phone

Process the image with pre-trained Al model



Target User



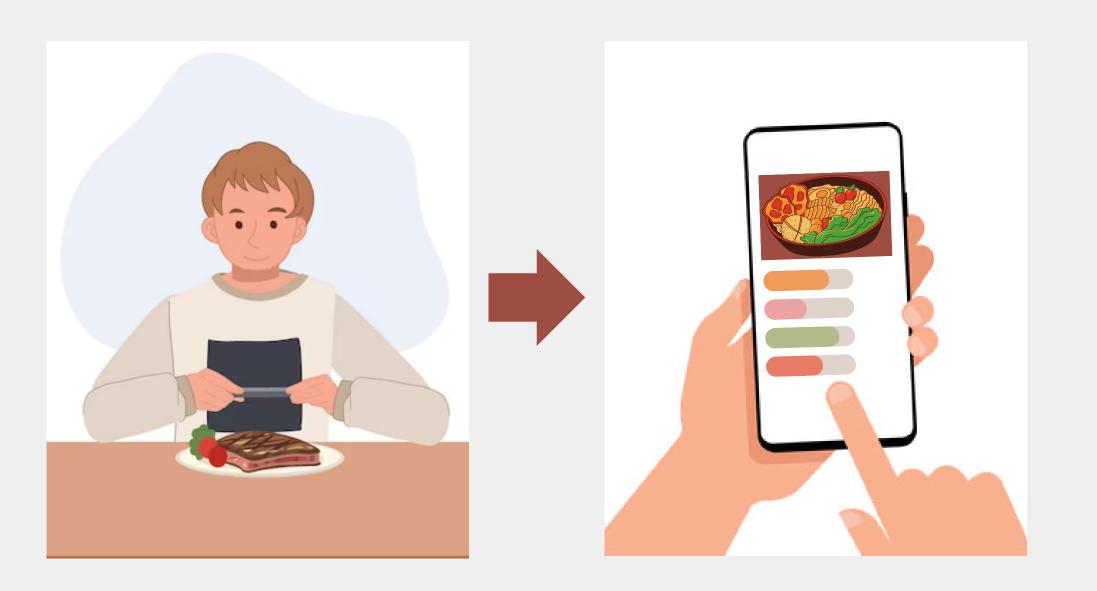




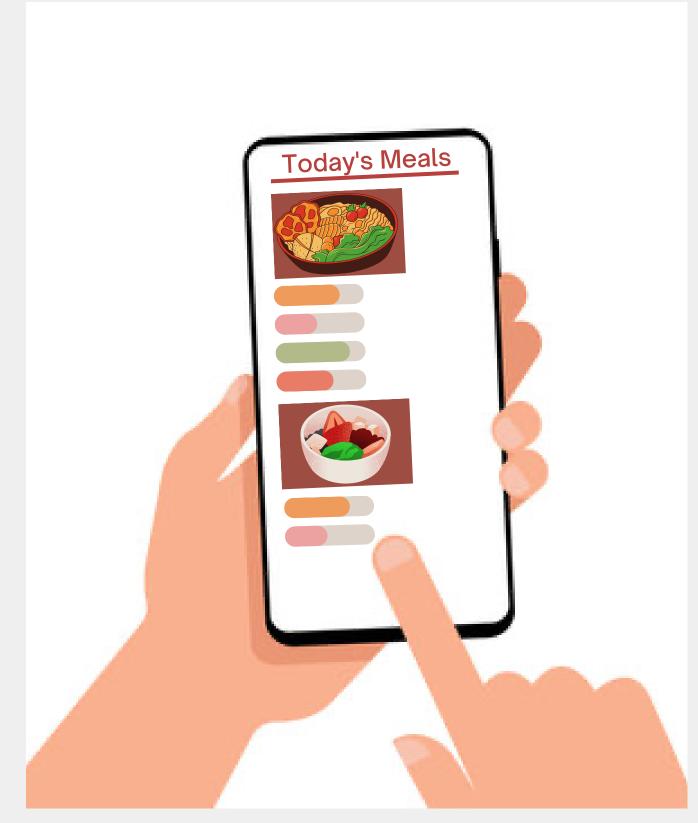




Usage Scenario



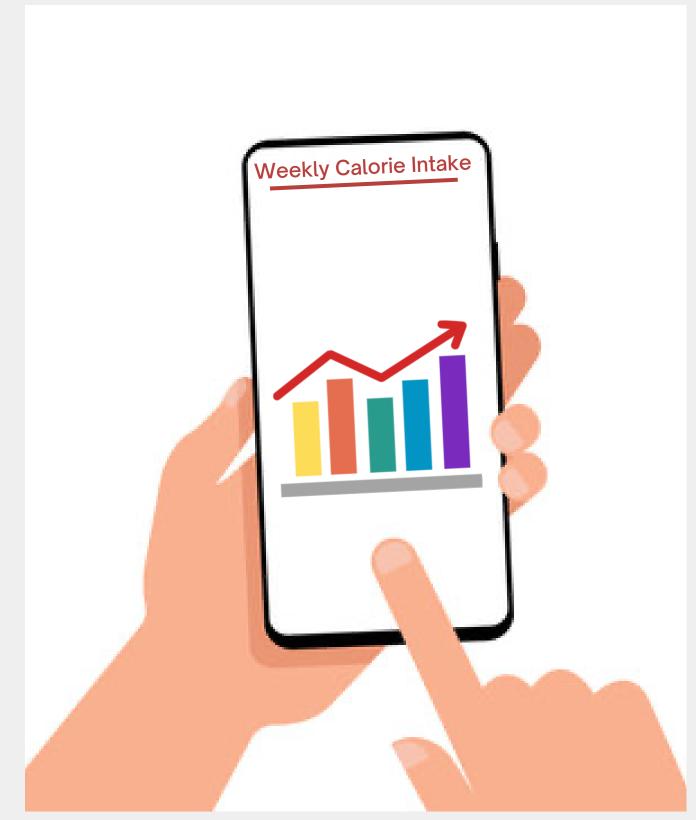






View what you ate in a day

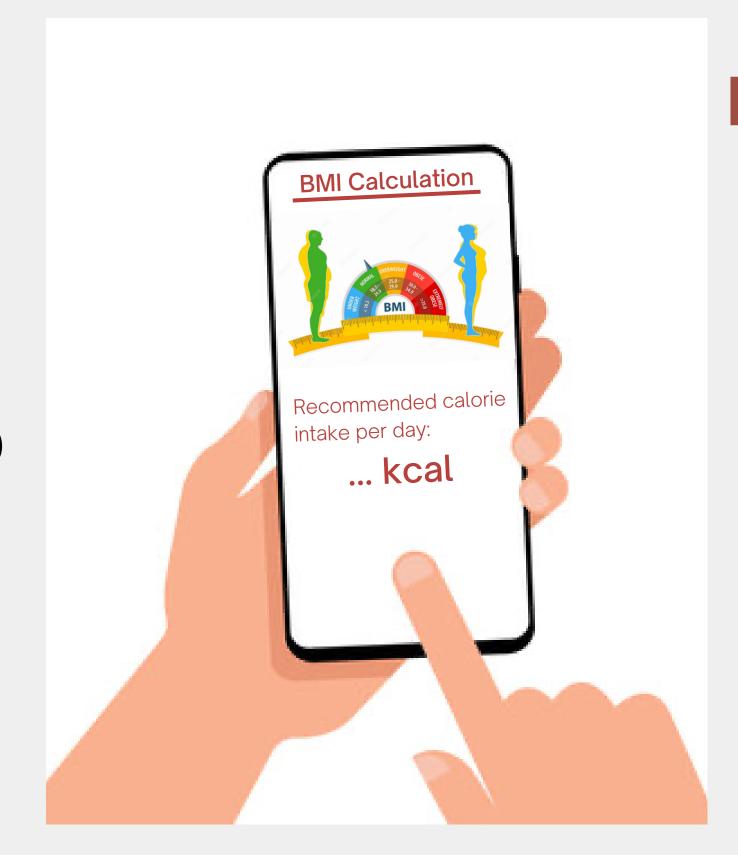


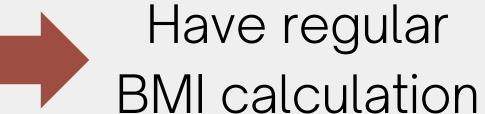




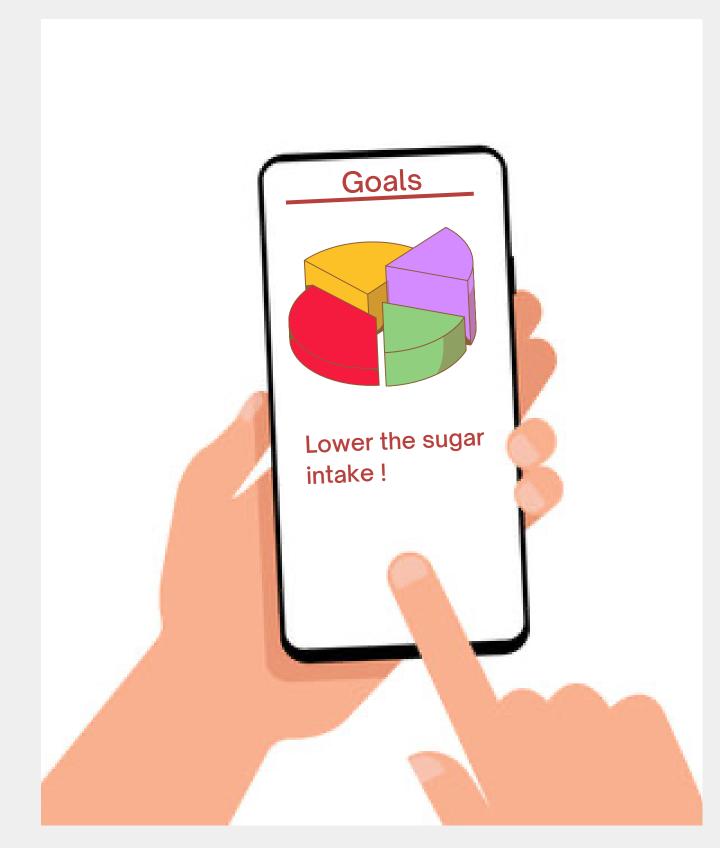
View your weekly calorie intake

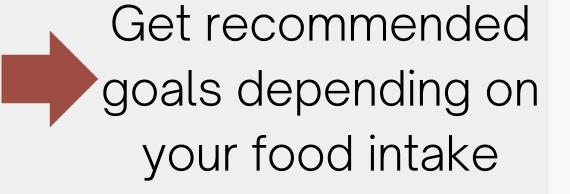
Usage Scenario



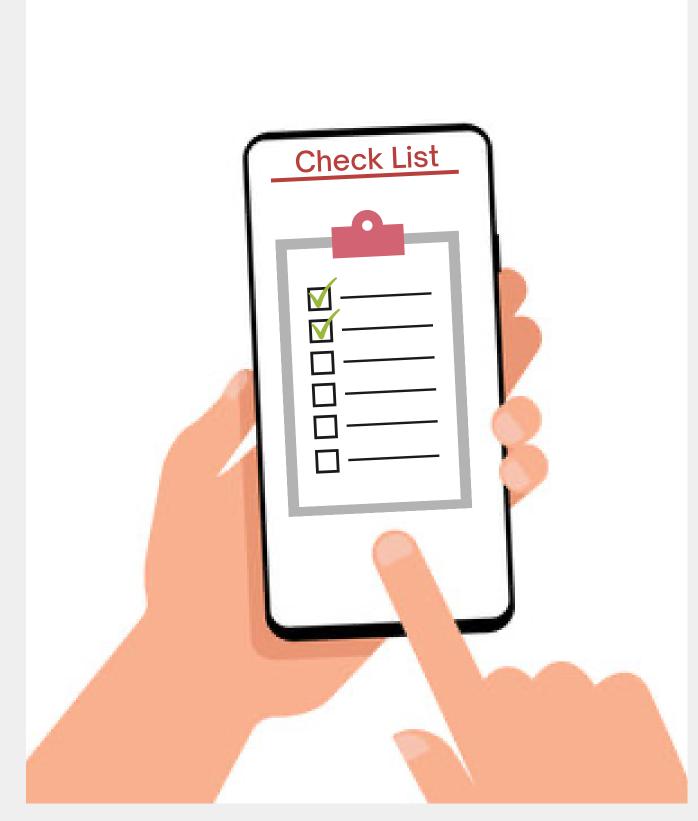


Usage Scenario











Have your own health check list

Prototyping Plan

01 Low-fidelity:

Tools:

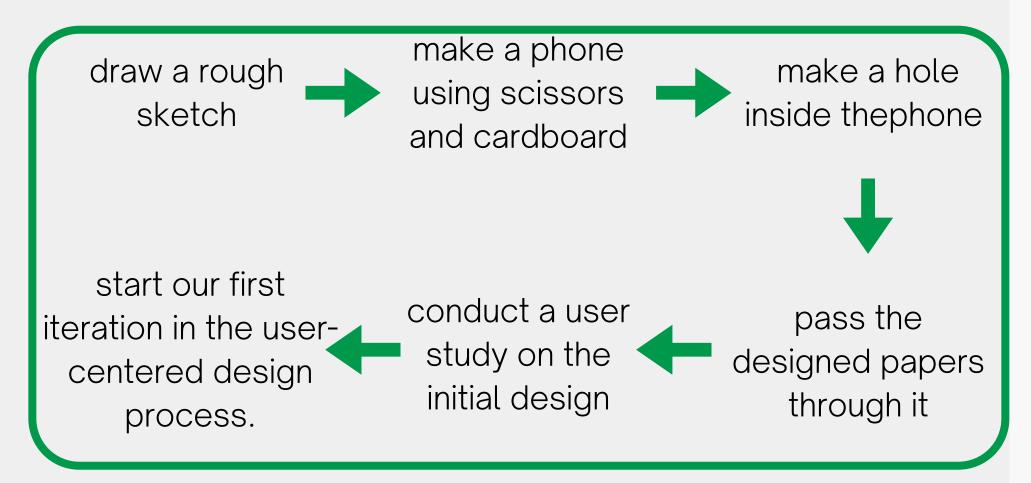
 Low fidelity: Scissors, paper, cardboard, pencil, colored pen, marker, Figma,
 Photoshop, Adobe Illustrator

Duration:

- Design: Week 5 ~ 6
- User study: Week 6~7
- Iteration: Week 7 ~ 9
- Figma design: Week 10 ~ 11
- User study: Week 11

Prototyping Plan

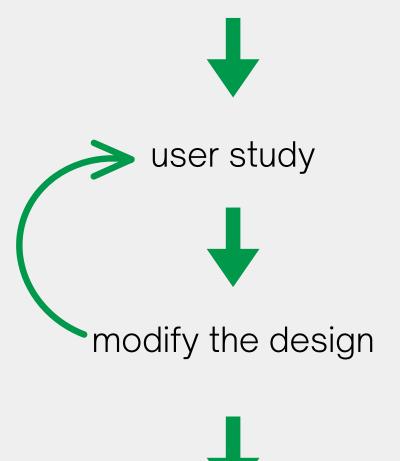
01 Low-fidelity:



02 Computer Low-fidelity:

Prototyping Plan

create a High-fi prototype on Figma





Prototyping Plan

03 High-fidelity:

Front end:

Flutter

REST API and the AI model:

- Django framework
- PyTorch

Duration:

- Iteration: Week 12
- Front end & Backend development:
 Week 12~14
- User study: Week 14
- Finalize the product: Week 15

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Thank You