



# Veggie Neighbors

Team 7

|



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01

# Background





# Background

## 1. The Trend

Due to the lengthy modern food chains leading to higher costs and decreased freshness,  
Rising preference for farm-to-table for its freshness and support to local farmers

## 2. The Challenges

Buying directly from farms often requires to purchase in bulk quantities, which may be burden for individual households

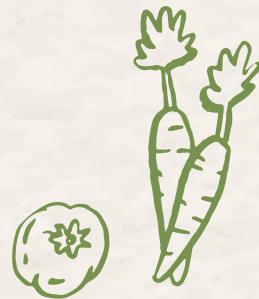




# Background

## 3. Our Solution:

An app that facilitates joint purchases from farms, allowing neighbors to share bulk orders, reducing costs, and ensuring freshness for all.



02

# Main Use Case

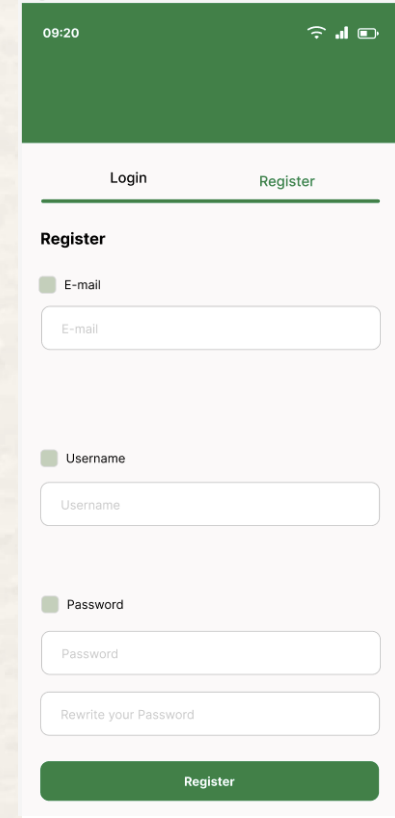




# Main Use Cases

## 1 Registration

- If a person is a new user, they can make a new account by the registration process.
- The required information includes user name, E-mail, and password.



09:20

Login Register

**Register**

☐ E-mail

E-mail

☐ Username

Username

☐ Password

Password

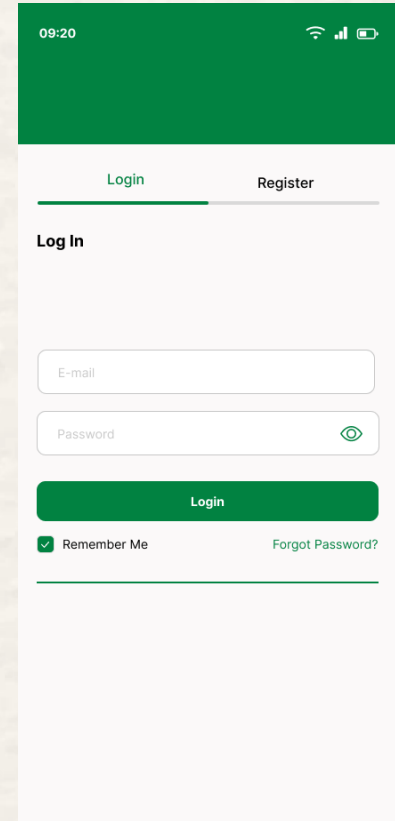
Rewrite your Password

Register

# Main Use Cases

## 2 Log-in

- If a person is a registered user, they can log in by log in process





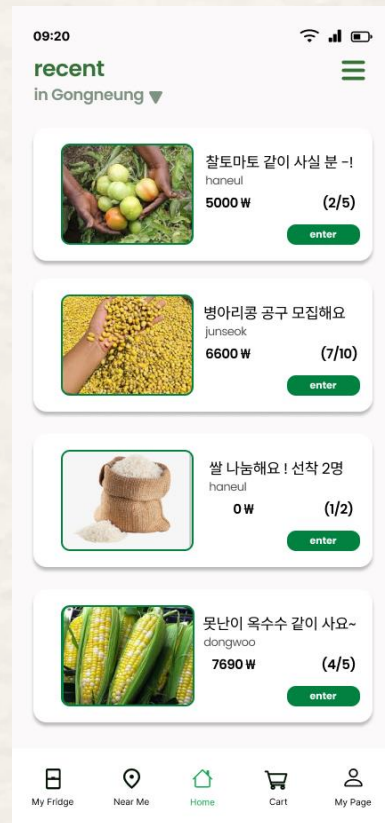
A mobile application login screen with a green header bar. The header bar contains the time '09:20' on the left and status icons (Wi-Fi, cellular signal, battery) on the right. Below the header bar, there are two tabs: 'Login' (highlighted with a green underline) and 'Register'. The 'Login' section is titled 'Log In' in bold. It contains two input fields: 'E-mail' and 'Password'. The 'Password' field has a green eye icon to its right. Below the input fields is a green 'Login' button. At the bottom, there is a checkbox labeled 'Remember Me' (checked) and a link 'Forgot Password?'.



# Main Use Cases

## 3 Home – Main Page

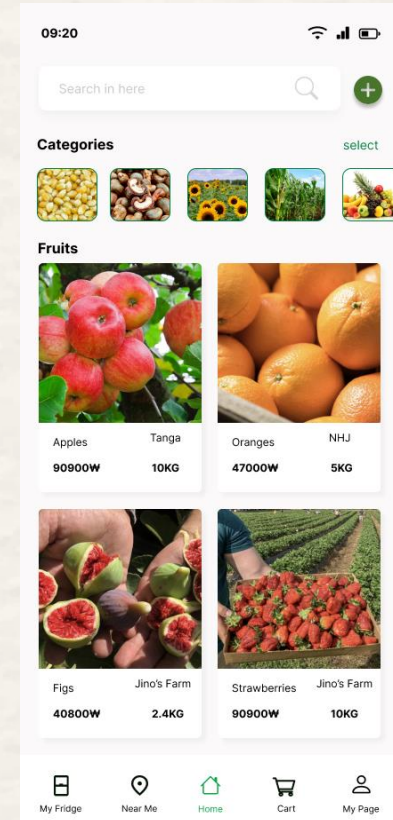
- Users can see the list of available group buying opportunities recently uploaded, based on their current location
- Users can see Home tab, Near me tab, My fridge tab, Cart tab, My page tab in the navigation bar
- By clicking  users can directly linked to the corresponding group buying detail page
- Alternatively, by clicking  , users can see the list of agricultural products on sale that are of desired category.



# Main Use Cases

## 3 Home – Category

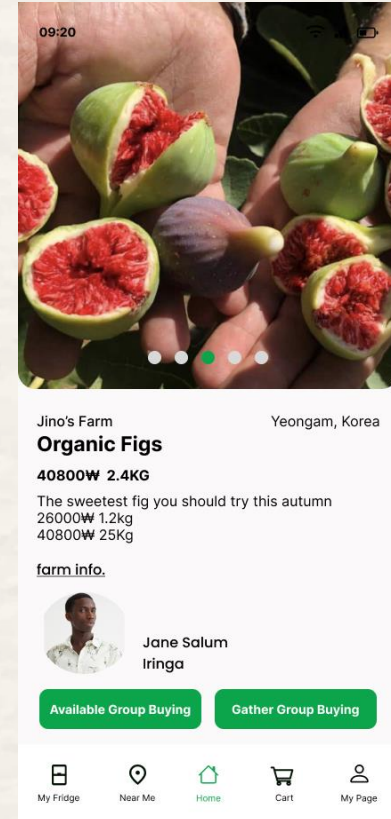
- Users can select a certain category of agricultural products that are desired. Ex) Organic, Vegetables, Fruits, Herbs
- Users can see the postings of agricultural products on sale (posted by farmers), that are of desired category
- By clicking a posting, users are linked to the product detail page



# Main Use Cases


## 3 Home – Product Detail

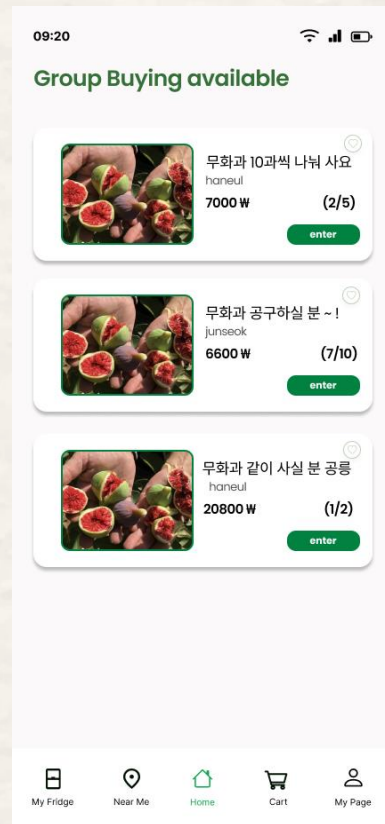
- Users can see the details of the fresh produce, including the product, farm, prices
- By clicking **Available Group Buying**, users can see the all currently available group buying postings for the selected product
- By clicking **Gather Group Buying**, users can make a new opportunity by uploading a new group buying posting



# Main Use Cases

## 3 Home – Available Group Buying


- Users can see the list of all currently available group buying postings for the selected product.
- In this page, users can check if there is available opportunity for the product in interest with some conditions being met (Ex) serving size, how many people more needed, location etc.
- By clicking , users can directly linked to the corresponding group buying detail page

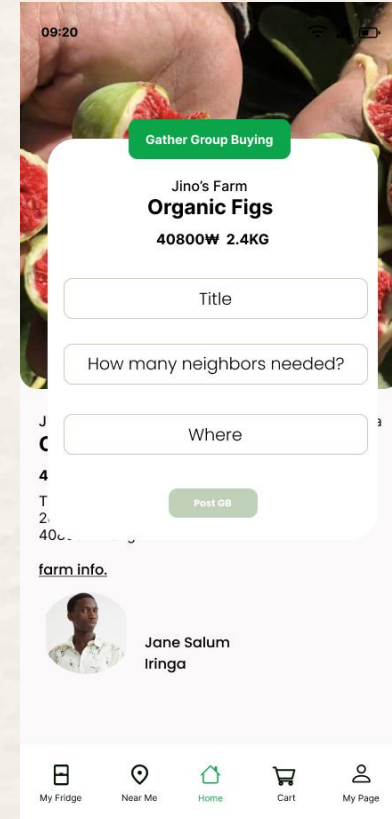




# Main Use Cases

## 3 Home – Upload GB postings

- Users can make a new opportunity by uploading a new group buying posting
- It requires title, the number of participants desired, the location of group buying
- By clicking , a new group buying post is uploaded, and the opportunity becomes available to the other users.



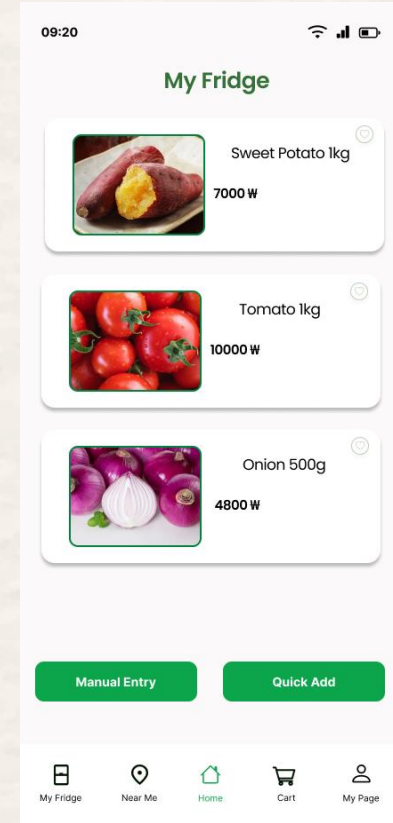
The screenshot shows a mobile app interface for 'Gather Group Buying'. At the top, there's a green header with the text 'Gather Group Buying'. Below this, the user's profile is displayed: 'Jino's Farm' and 'Organic Figs' with a price of '40800W 2.4KG'. The form contains three input fields: 'Title', 'How many neighbors needed?', and 'Where'. A green 'Post GB' button is located below the 'Where' field. At the bottom, there's a section for 'farm info.' featuring a profile picture of a man and the text 'Jane Salum Iringa'. The bottom navigation bar includes icons for 'My Fringe', 'Near Me', 'Home' (which is highlighted in green), 'Cart', and 'My Page'.

# Main Use Cases

4

## My Fridge – Inventory Management

- User can access personal inventory of groceries by clicking the 'My Fridge' button at the bottom of the app interface.
- User can quickly glance at current stock and manage groceries efficiently.
- Also, it has two buttons **Manual Entry** and **Quick Add** buttons. Through these buttons, user can easily manage their items.

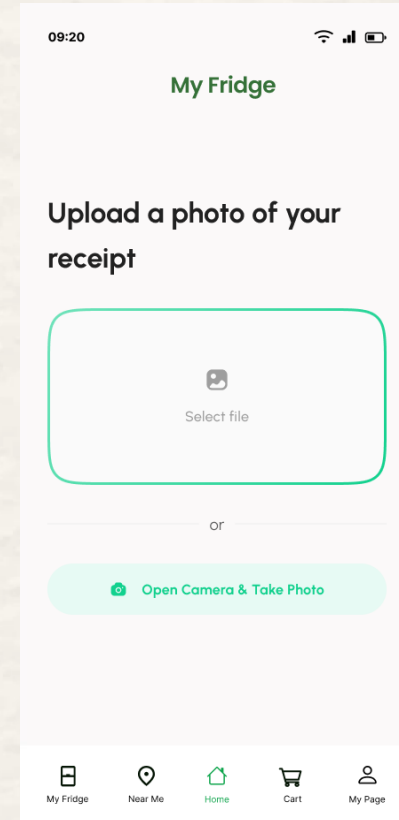




# Main Use Cases

## 4 My Fridge – Receipt Scanning

- By selecting **Quick Add** button, users can add items to their inventory through an OCR (Optical Character Recognition) scan of a receipt.
- It includes option to either upload a photo from the gallery or take a new photo of a receipt.
- By uploading, user can simplify inventory updates by scanning receipts instead of manually entering item details.



# Main Use Cases



## 4 My Fridge – OCR Applied

- After the receipt is scanned, the OCR technology identifies and extracts information about purchased items.
- It displays scanned item details such as Product, Amount, date and Price which can be registered into the inventory.
- By clicking [Register](#), user can add items If occurred text is accurate. Else, user can just modify the texts.

09:20

My Fridge

Scanned Receipt:

*백주담구생황	1개	19,800
[백주]연필티드라거_흰색	1개	5,000
[백주]노이볼랙라거_화백	1개	5,000
[백주]스테파비이스_열군	1개	5,000
[백주]선데이패일에일_주황	1개	5,000
[백주]선데이패일에일_주황	1개	5,000

상품명 앞 \*표시가 되어 있는 품목은 부가세 면세 품목입니다.

Product

Carrot

Amount

1

Price

3000 W

[Register](#)

My Fridge   Near Me   Home   Cart   My Page

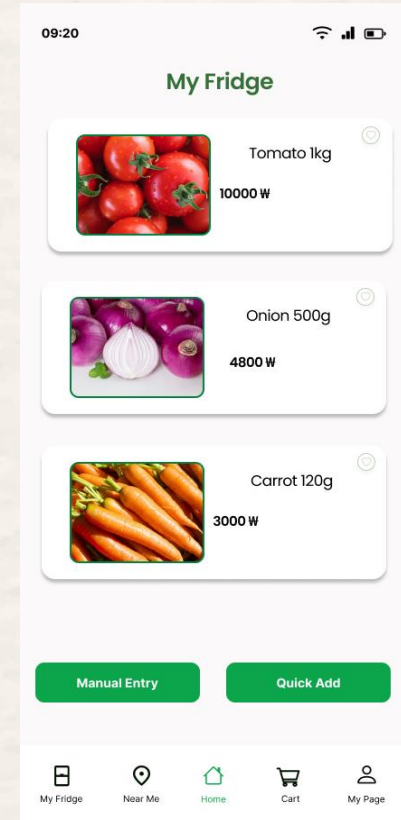


# Main Use Cases

4

## My Fridge – Inventory Management

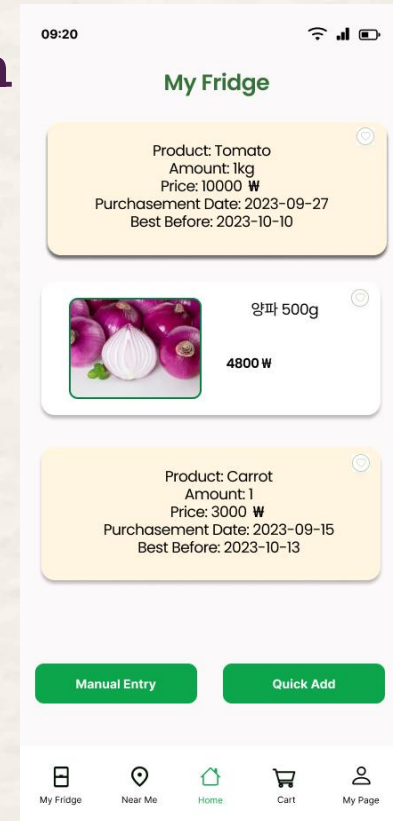
- Post-scan, new item such as 'Carrot' is added to the 'My Fridge' list along with existing items.
- New additions are displayed with an image, name, quantity, and price.



# Main Use Cases

## 4 My Fridge – Detailed Information

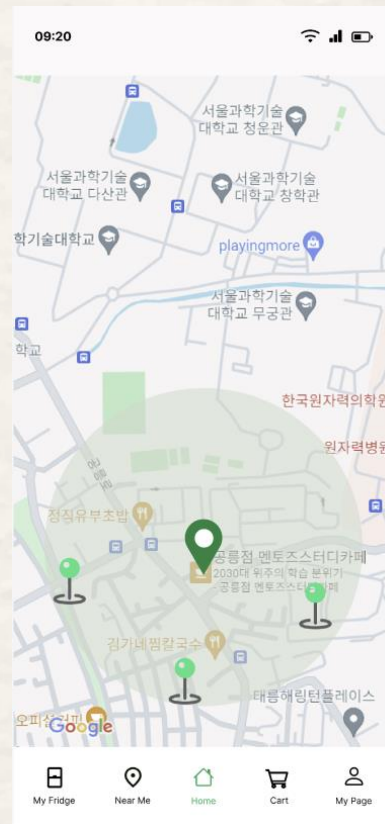
- Users can tap on an item in 'My Fridge' brings up a detailed view of the product information.
- Detailed information includes Product Name, Amount, Price, Purchase Date, and Best Before Date.
- It helps with effective management of food items, allowing users to track consumption and reduce waste by monitoring expiry dates.



# Main Use Cases

## 5 Near Me



- Users can see available group buying opportunities near themselves, represented as pins on the map
- Users can zoom-in/out or move to another region to explore various group buying opportunities
- If a user clicks a certain pin, the user is directed to the group buying detail page(group buying post)

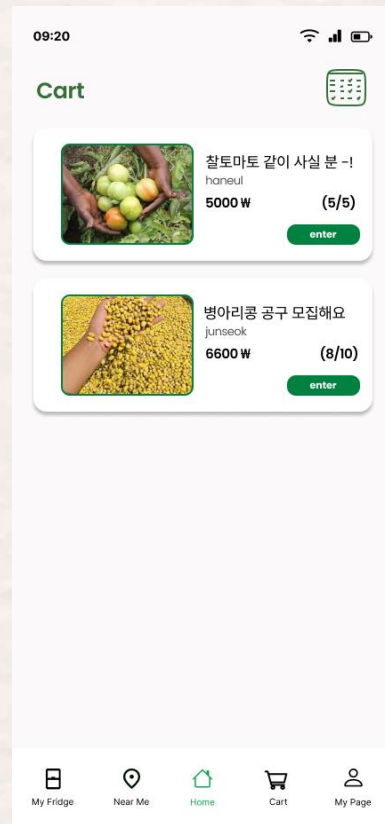




# Main Use Cases

## 6 Cart

- Users can see group buying opportunities they have been participated, and not completed yet.
- Users can manage the group buying schedule by clicking 
- Users can enter chat rooms by clicking 

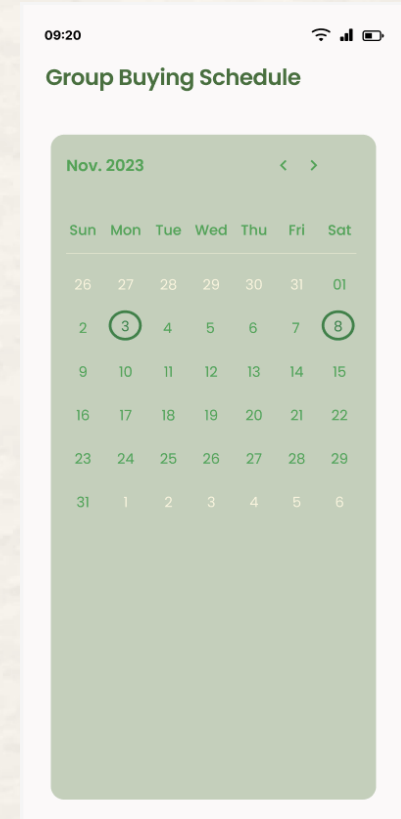




# Main Use Cases

## 6 Cart – Calendar

- Users can check the group buying appointments, represented as colored circle in the calendar



# Main Use Cases

## 6 Cart – Chat Room

- Users can enter chatroom, where there are all the other users who are currently participating in the group buying
- Here, users can make an appointment to divide the delivered fresh produce, directly having chat with others





# Expected Components

1. Firebase: Cloud-based backend service for DB, authentication and server
2. MLkit- text detection in image (OCR): To detect and process text within images in an application.
3. Kakao i Connect Message API – BizMessage: The Kakao Talk notification function to notice users about intended schedule.
4. Google Map API: Enable mapping and location functionality to help you find delivery destinations or pinpointing meeting locations.
5. Google Calendar API: Used to allow users to record their grouping purchase schedule.

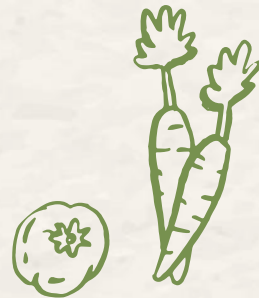




# Expected timeframe

## Schedule

Aa Name	≡ Date
<u>Design User Interface</u>	Week 9
<u>Function Development</u>	Week 10
<u>Function Development and Database design</u>	Week 11
<u>Function , Database and Server Development</u>	Week 12
<u>Function , Database and Server Development</u>	Week 13
<u>Function and Server Development</u>	Week 14
<u>Beta testing and presentation</u>	Week 15





# Role & responsibilities

**AA:** Application Development, Utilize APIs

**BB:** Application Development, Server Development

**CC:** Application Development, UI Desing



**Thank you**

