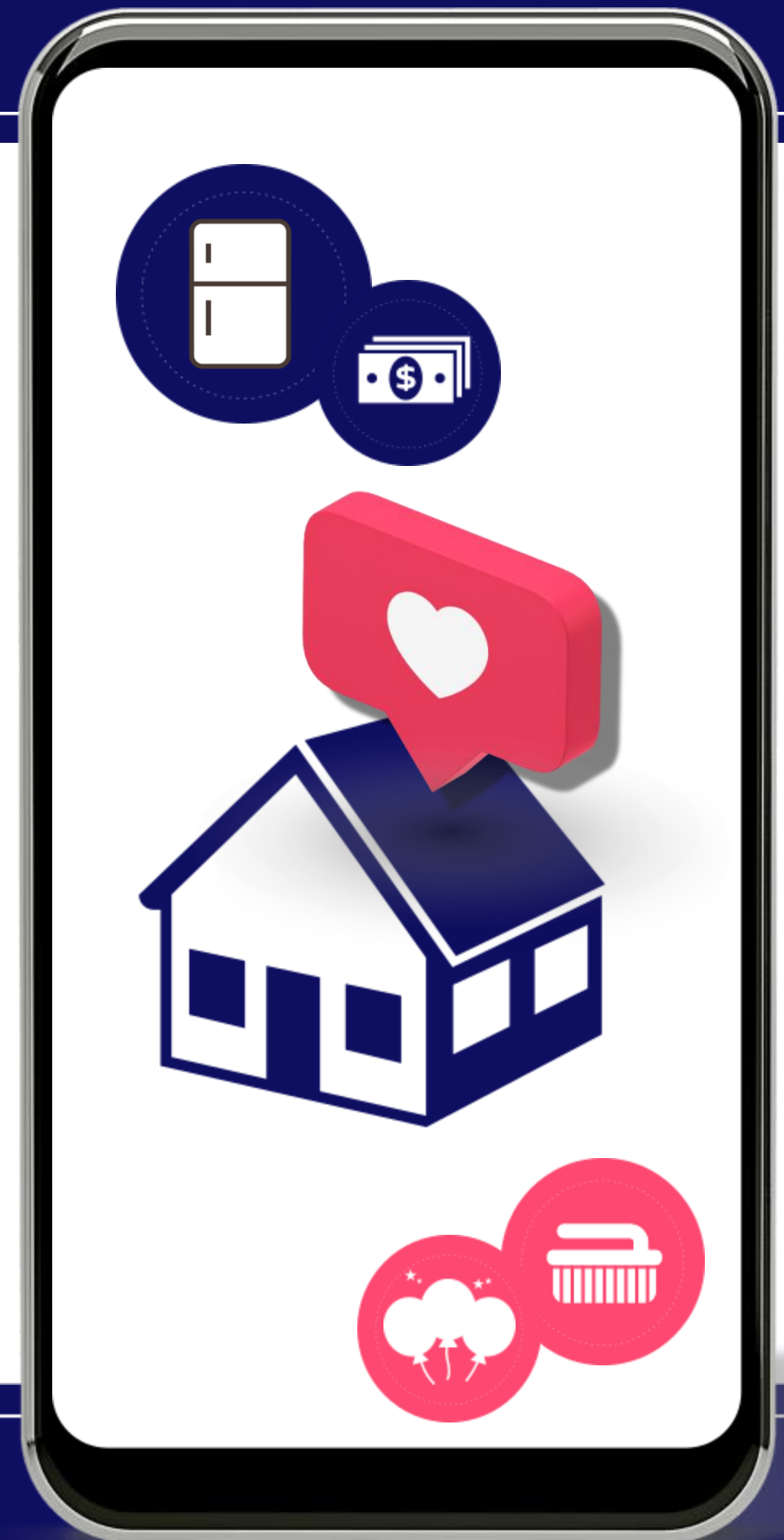**Project Proposal Presentation, Oct 4th, 2024**

Housit- hows it?

:HouseCare Mobile Application

Team A : A+   Minsoo KIM, Seoyoung JO, Seoyoung JIN, Jinwook CHOI, Sooyoung HWANG
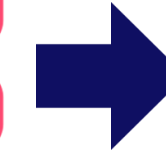
Needs(What & Why?)

high housing cost

safety concern

one-person household → Co-Living

Task-sharing

- **Check assigned chores**
- **Prevent conflict with fair distribution**

Expense

- **Provide transparent way to handle shared cost**
- **Keep tracking how much we costed and saved**
- **Plan monthly expense**

Schedule-sharing

- **Coordinate and schedule communal events**

Grocery

- **Efficient tracking of shared grocery**
- **Reduce food waste**

We create, record, share, and re-find daily information everyday.
BUT, information is dis-organised and scattered.
-> Difficult to find and understand the information you need.

Related Works

Flatastic
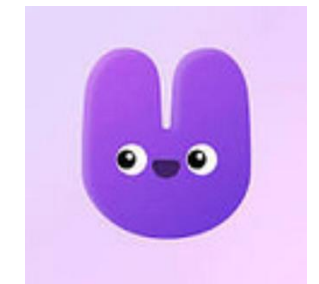: Share Living Application

- Food management X

- Expense :
  recording account balance X

- Chores :
  Descriptions for cleaning areas X

When does it expire?
: Food Management

- Auto adding for product name

- Manually input expiration date

Household Accounting App
: Finance

- Limitation: number of member

- Invite member for sharing X
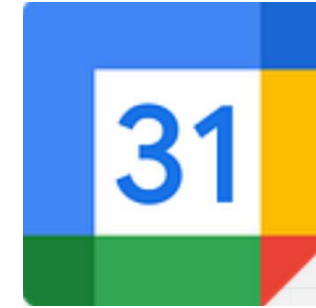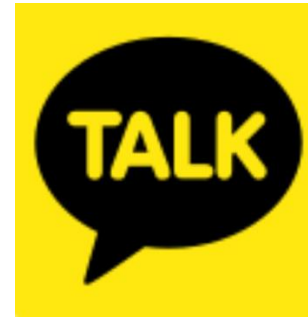 (compared in the table as followed in next, next slide)

Related Works

Tody
: Cleaning management

- Create specific cleaning area

- Invite communal members for cleaning

- Need: Assigning areas **beforehand**

Kakao Talk & Google Calendar
: Event Management

- Set dates, times, notifications

- Shared calendar functionality

Housit

Related Works : limitations

1. **<u>Incompleteness</u>**
   : each app doesn't provide the specific features you need

2. **<u>Scattered</u>**
   : lack of integration, forcing you to sign up for and use multiple apps

3. **<u>Poor</u> usability**
   : uncomfortable UI/UX

Solutions: Rooms

Housit

Welcome!

[Create new room]

[Enter the room]

← **Housit**

Room name

: [   ]

Room PW

: [••••••]

[Create]

← **Housit**

Room name

: [   ]

Room PW

: [••••••]

[Enter]
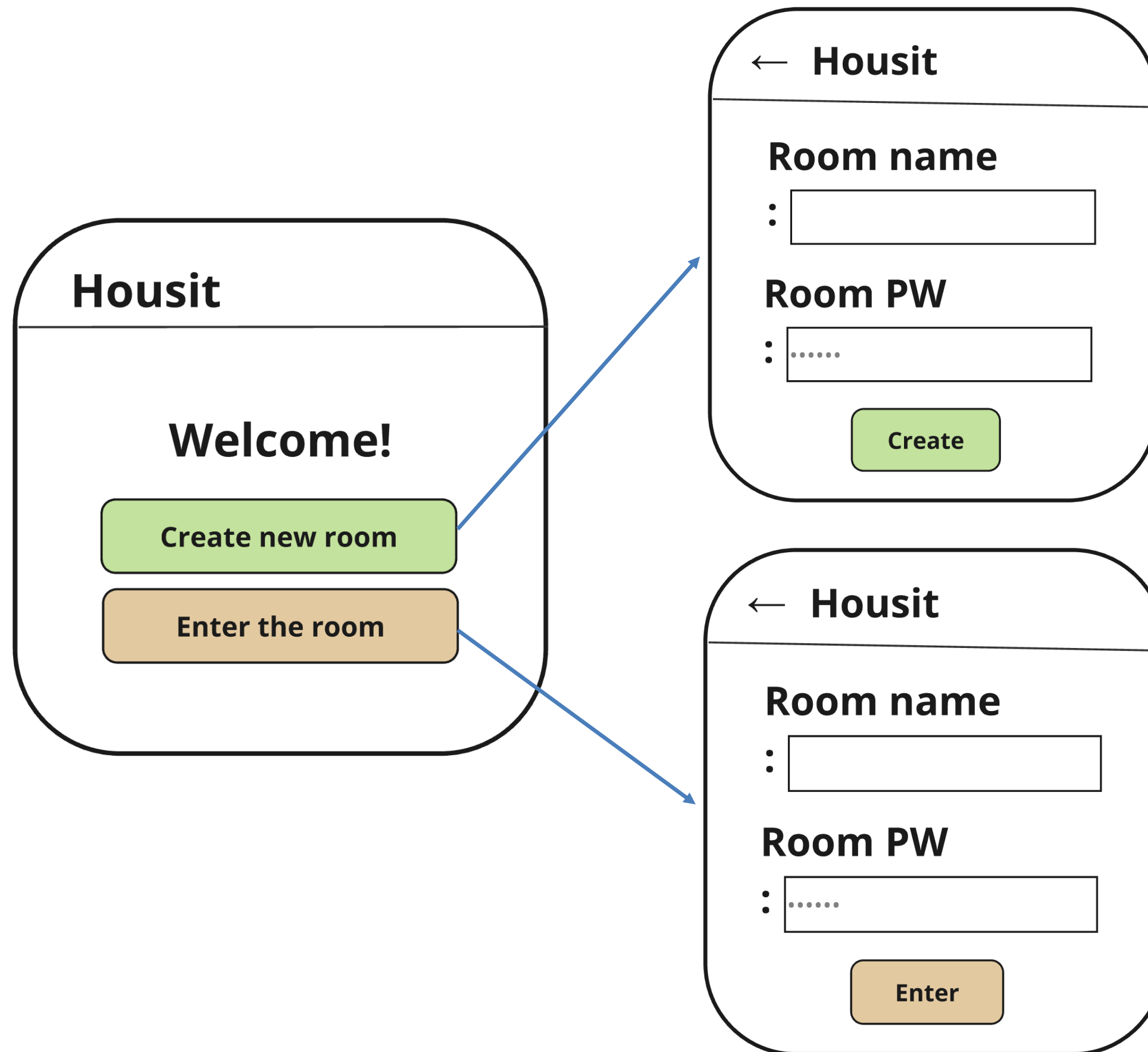
Key features

- Create a room
- Share the room name(ID) and PW with our co-living members
- Each room has sub-users
- Room PW is mandatory with 6 pin numbers and sub-users PW is optional with 4 pin numbers.
- Ban feature for preventing from strangers
  - Room manager has the permission.
  - Mandatory process to change the Room PW after banning a stranger.

Solutions: Home

Key features

- Displaying most important information of household
  - Food
    - Expiration Date
    - Favorite food : Minimum quantity
  - Finance
    - Due date of fixed expense
  - Clean
    - Due date of cleaning area
  - Event
    - Upcoming events

Solutions: Food

Key features

- Add/delete/modify food items
- Grouping/Filtering/Sorting
  - Refrigeration/ Frozen/ Room Temperature food
  - Shared/ Private food
  - Expiration date
  - Purchased date
- Scan and auto-add expiration date to the items(OCR)

Solutions: Finance

Balance : 320,000₩ - 50,000₩ expensed = 270,000₩ left

Daily Expense(KakaoBank) [Monthly log] [Modify] [Delete]
: 220,000₩ - 50,000₩ expensed = 170,000₩ left

Saving for Vietnam Trip(Woori Bank) [Monthly log] [Modify] [Delete]
: 100,000₩ - 0₩ expensed = 100,000 left

[+ Create an account]

Planning Budget :

▼Cost

▼**Fixed Expense : total 491,000₩**

☑ Rent fee : 450,000 ₩ Due Date : Oct 19th(Sat) 2024

✅ Telecom fee: 30,000₩ Due Date : Oct 2nd(Wed) 2024

☑ Netflix : 11,000₩ Due Date : Oct 30th(Wed) 2024

▼ **Food : total 65,000₩**

Delivery food day : 50,000₩

Water : 15,000₩

• Save for trip : total 50,000₩

Actual Expense : total 73,000₩

▼Date

Oct 2nd(Wed) 2024
• **Buying a mini freezer, 50,000₩** [Modify] [Delete]
[Minsoo] #device Daily Expense(KakaoBank)

• **Water, 15,000₩** [Modify] [Delete]
[Jinwook] #grocery Daily Expense(KakaoBank)

Oct 3rd(Thu) 2024
• **Pasta sauce and noogles, 8,000₩** [Modify] [Delete]
[Jinwook] #grocery Daily Expense(KakaoBank)

Daily Expense(KakaoBank) : 220,000₩ - 50,000₩ expensed = 170,000₩ left

▼Oct

• **Deposit by Minsoo, 110,000₩**, Oct 1st(Tue) 2024 [Modify] [Delete]

• **Deposit by Jinwook, 110,000₩**, Oct 1st(Tue) 2024 [Modify] [Delete]

• **Buying a mini freezer, 50,000₩**, Oct 2nd(Wed) 2024 [Modify] [Delete]

Key features

- Balance
  - Add a bank account
  - Modify the name
  - Tracking income/outcome logs

- Planning Budget
  - Make categories/sub-categories
  - Fixed Expense
    - Checkbox and Due date feature

- Actual Expense
  - Keep tracking actual expenses
  - Select who payed, expense categories
    and bank account from where the money came

Solutions: Clean
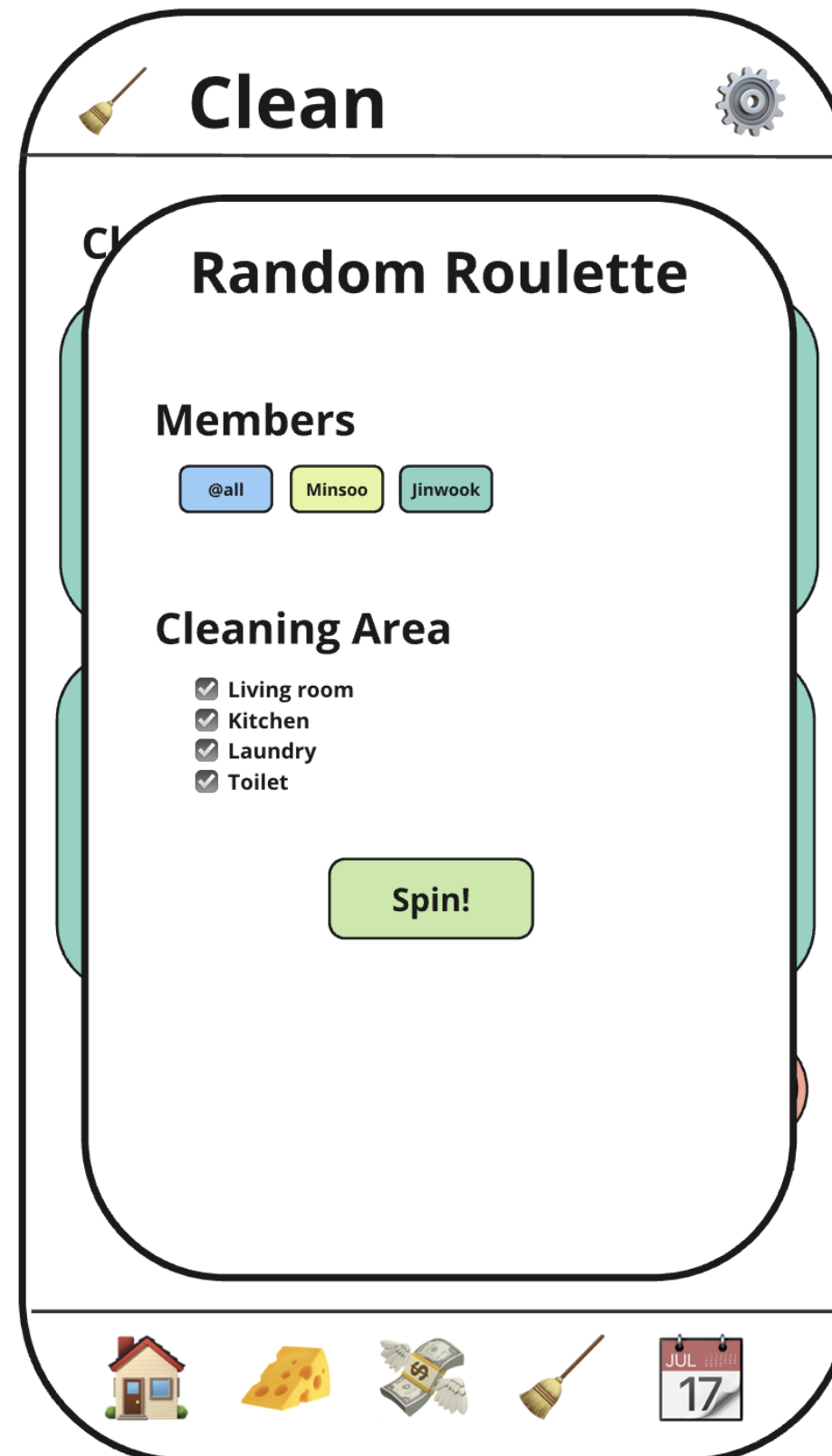
Key features

- Write/modify descriptions about cleaning areas
- Set the cleaning period(frequency) and notify when it comes
- Roulette button for randomly assigning new areas every month

Solutions: Event

Key features

- Add/Modify shared event
- Tag the members who will be participated in the event
- Notify to the Home view when the day comes

Role & Plan

Name	Role
김민수	Planning, Document, UI/UX
조서영	OCR Feature Implementation
진서영	UI/UX Design
최진욱	Frontend
황수영	Backend

Table 3: Weekly Schedule for Development

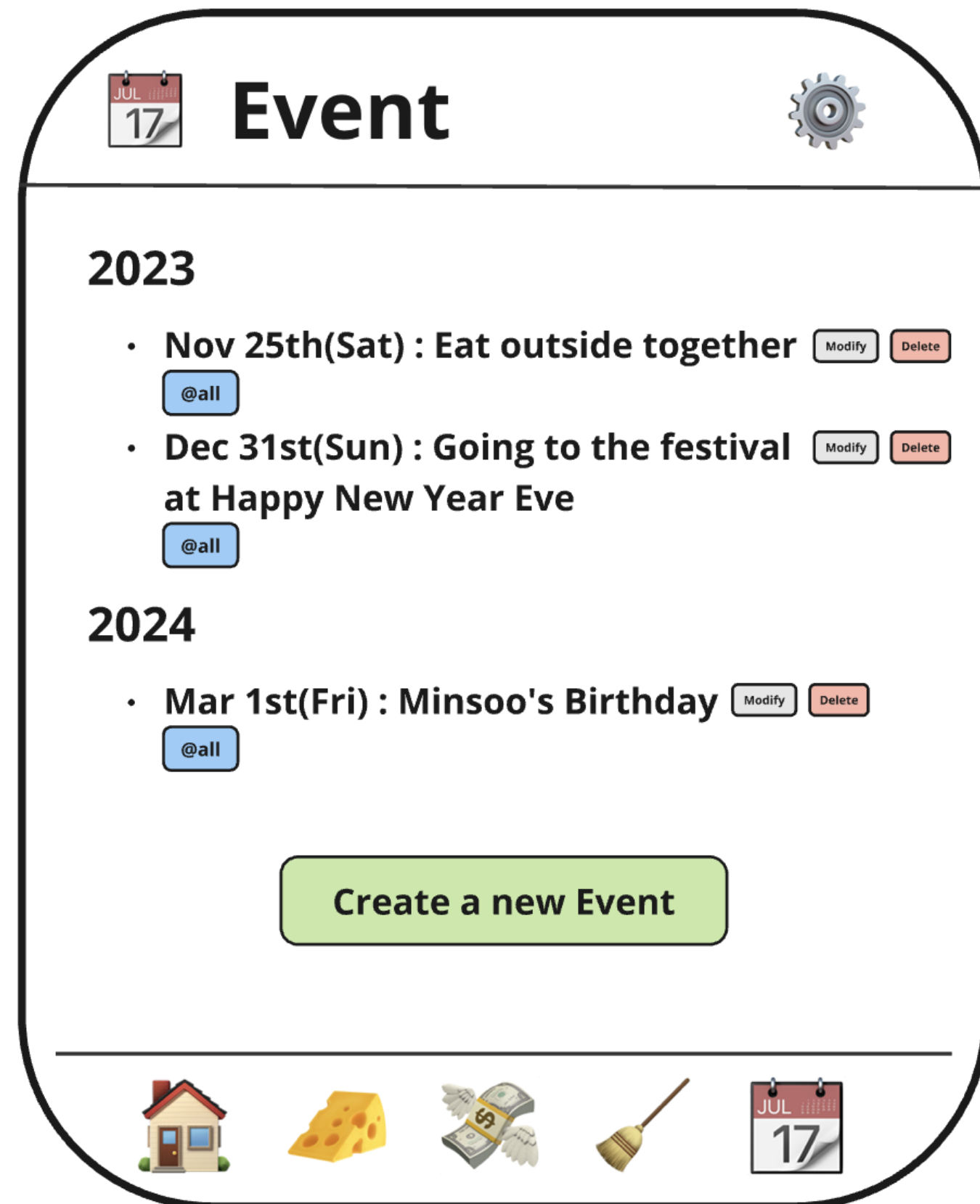| No.	Task Description	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Detailed Function Ideation	■	■	■	■									
2	Proposal Writing				■	■								
3	Proposal Presentation					■								
4	API Specification Writing						■	■						
5	DB Structure Design							■	■					
6	Mobile App Workflow Design								■					
7	Mobile App Design								■	■				
8	Frontend Implementation									■	■			
9	Backend Implementation										■	■		
10	OCR Scan Function Implementation											■	■	
12	Mid-progress Check												■	
13	Presentation													■