

Mobile programming

# *Mobile programming final*

***Recycling wiki***

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1

*Background*

## motivation

- Separate the trash has become a duty of the present era.
- Due to the lack of information on recyclables, many people do not know how to recycle and what types of products to be classified.
- The social costs incurred by failure to



## Introduction

- It provides recycling information.
- The location of the ice pack collection box and recycling event information for each office.
- It provides recycling information on a designated day through the alarm function.

# Recycling Wiki



# List of features

Service	Function
Recycle information	Recycling view and filtering function
Log in or out and sign up	Internal(with firebase) & SNS (google)
Alarm and notification	Create alarm manager and notification function
Location of Ice pack collect box and office (with recycle event, location of flea market)	Map (from google API) notice the location through pinning in the map and offer the information through card view layout.

**2**

***Role &  
Responsibilities***

## Summary table of R&R

Github address: [https://github.com/Jammjm/MobileProgramming\\_team](https://github.com/Jammjm/MobileProgramming_team)

	TaeHyeon Kwon	JaeMin Park
1.	Model structure design	Model structure design
2.	External map API implementation(Google)	Firebase linkage
3.	Map pinning and visible information	Recycling view with filtering search method
4.	Accounting setting	Information on recycling
5.	UX & UI	UX & UI
6.	Alarm and Notification function	Social login implement(Google)

3

*Methodology*



# System architecture



Firebase include account information that helps login and social login easily.

Use the Google API when operating Map view (Map API) and SNS accounting service(SNS API)

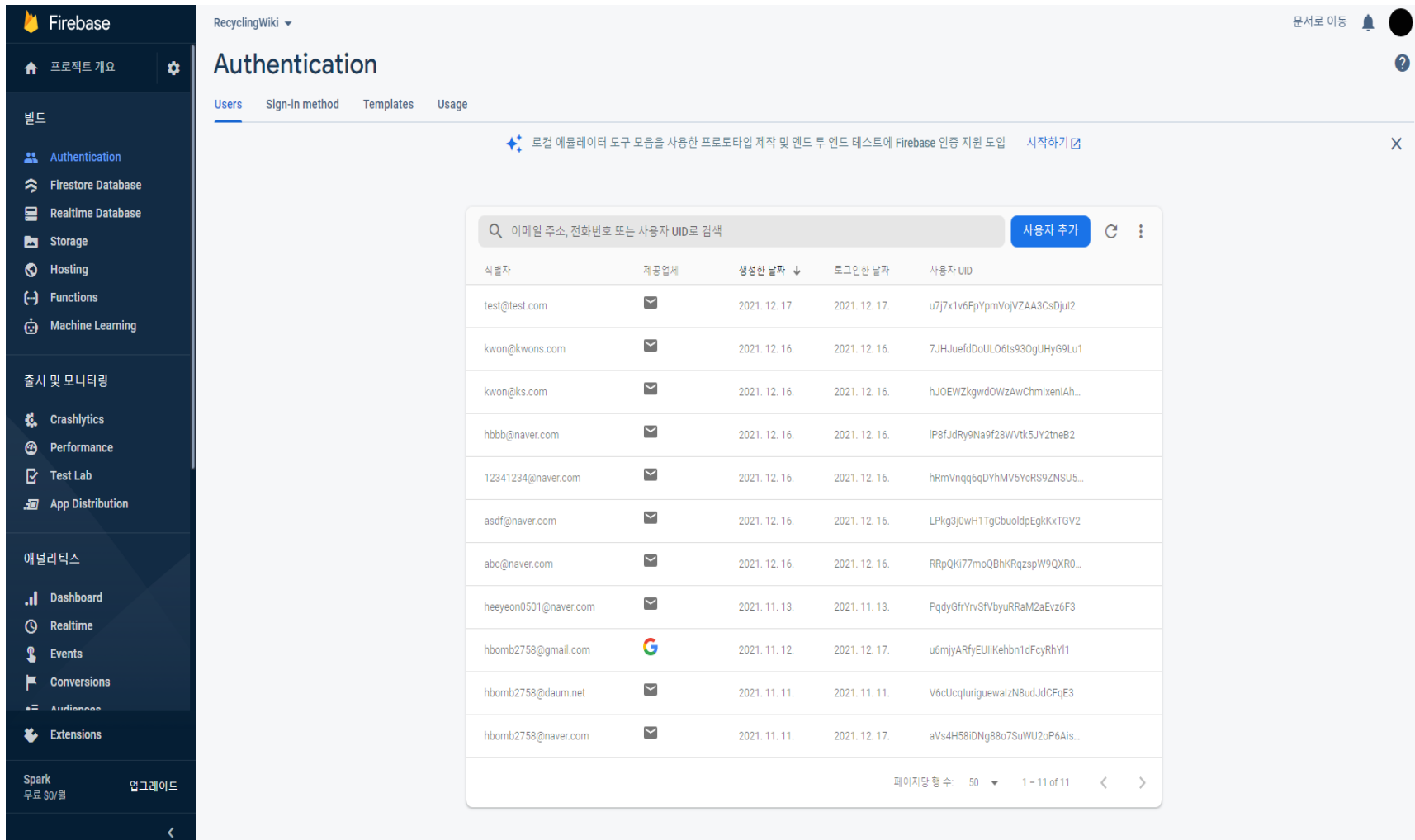
## Basic components and extra components

Basic components	Extra components
Recycler view	Firebase
Google API	Social login
Email intent	Sign up and log in and out
	Notification & Alarm manager
	Map view
	Search function

4

*Functions*

# Firebase



The screenshot shows the Firebase Authentication console. The left sidebar contains navigation links for various Firebase services. The main area displays the 'Authentication' page with a search bar and a table of users. The table includes columns for email, provider, creation date, login date, and UID. A banner at the top of the main area mentions a tool for testing Firebase authentication.

**Navigation Sidebar:**

- Firestore Database
- Realtime Database
- Storage
- Hosting
- Functions
- Machine Learning
- 출시 및 모니터링
- Crashlytics
- Performance
- Test Lab
- App Distribution
- 애널리틱스
- Dashboard
- Realtime
- Events
- Conversions
- Audiences
- Extensions
- Spark

**Authentication Page:**

RecyclingWiki

문서로 이동

Authentication

Users Sign-in method Templates Usage

로컬 에뮬레이터 도구 모음을 사용한 프로토타입 제작 및 엔드 투 엔드 테스트에 Firebase 인증 지원 도입 시작하기

이메일 주소, 전화번호 또는 사용자 UID로 검색


사용자 추가

식별자	제공업체	생성한 날짜 ↓	로그인한 날짜	사용자 UID
test@test.com		2021. 12. 17.	2021. 12. 17.	u7j7x1v6FpYpmVojVZAA3CsDjul2
kwon@kwons.com		2021. 12. 16.	2021. 12. 16.	7JHJuefdDoUL06ts930gUHyG9Lu1
kwon@ks.com		2021. 12. 16.	2021. 12. 16.	hJOEWZkgwdOWzAwChmixeniAh...
hbbb@naver.com		2021. 12. 16.	2021. 12. 16.	IP8fJdRy9Na9f28WVtk5JY2tneB2
12341234@naver.com		2021. 12. 16.	2021. 12. 16.	hRmVnqq6qDYhMV5YcRS9ZNSU5...
asdf@naver.com		2021. 12. 16.	2021. 12. 16.	LPkg3j0wH1TgCbuidpEgkKxTGV2
abc@naver.com		2021. 12. 16.	2021. 12. 16.	RRpQKI77moQBhKRqzspW9QXR0...
heeyeon0501@naver.com		2021. 11. 13.	2021. 11. 13.	PqdyGfrYrvSfVbyuRRaM2aEvz6F3
hbomb2758@gmail.com		2021. 11. 12.	2021. 12. 17.	u6mjyARfyEUllKehbn1dFcyRhYf1
hbomb2758@daum.net		2021. 11. 11.	2021. 11. 11.	V6cUcqluriguwalzN8udJdCFqE3
hbomb2758@naver.com		2021. 11. 11.	2021. 12. 17.	aVs4H58IDNg88o7SuWU2oP6AIs...

페이지당 행 수: 50 1 ~ 11 of 11

We used firebase to store data, as you can see in this image there are some account is uploaded

## Categorical information

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Choose your category!

PAPER

CAN

STYROFOAM





VINYL

PLASTIC


### Paper, Carton

**Paper**  
| newspaper  
Make sure you don't get wet, spread it out straight, stack it one by one, and bundle it out. Avoid mixing vinyl-coated advertising papers, vinyls, and other dirt.

| Booklets, notes  
Remove vinyl coated covers, spring from notebooks, etc. and discharge them.




| Boxes (corrugated cardboard box, etc.)  
Remove the plastic coating part, tape attached to the box, iron pin, etc., and press it to bundle and discharge it for easy transport.



**Paper pack, paper cup.**  
| Sterilizing pack. Sterilizing pack.

STEP 01 STEP 02 STEP 03 STEP 04

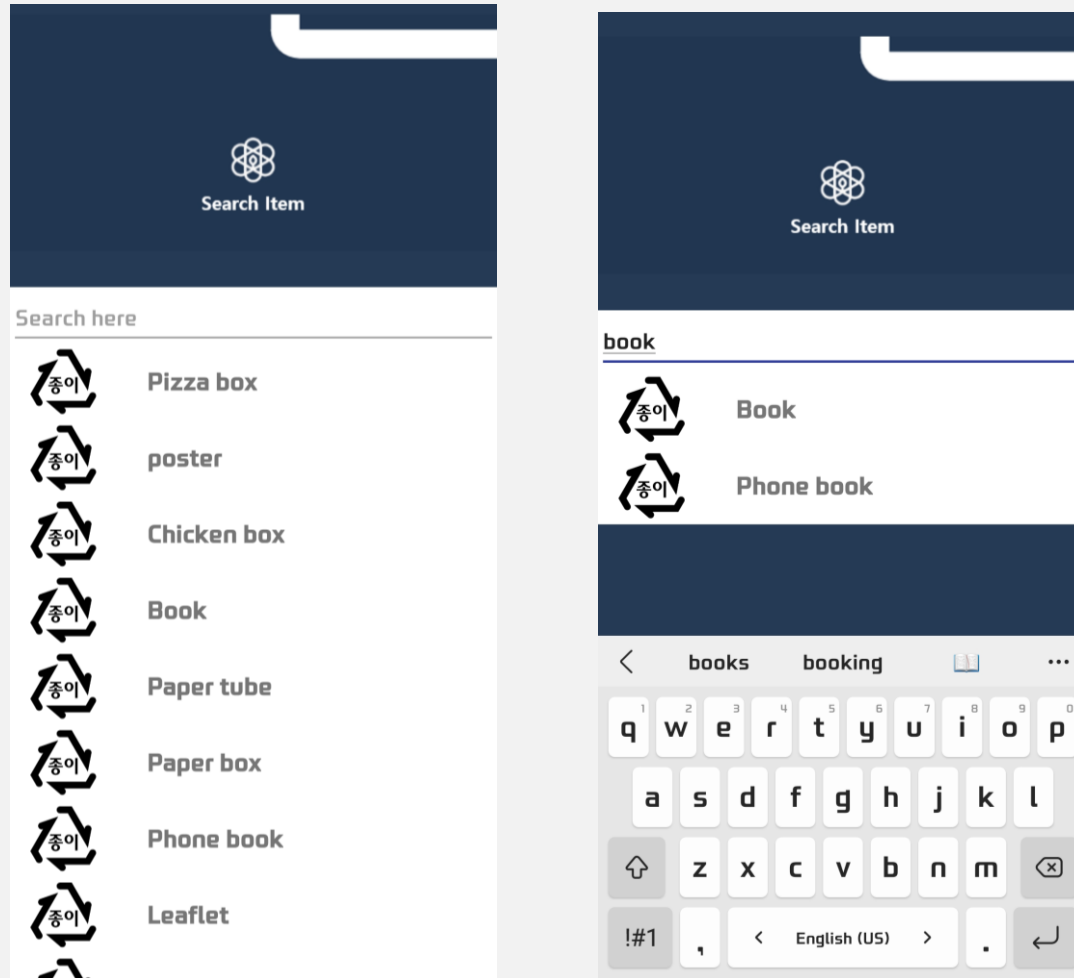


-Empty the contents, march it with water, press it down, put

Each items are categorized into big 5 category.

When we click each category, we can se detailed information of recycling.

## Search Item

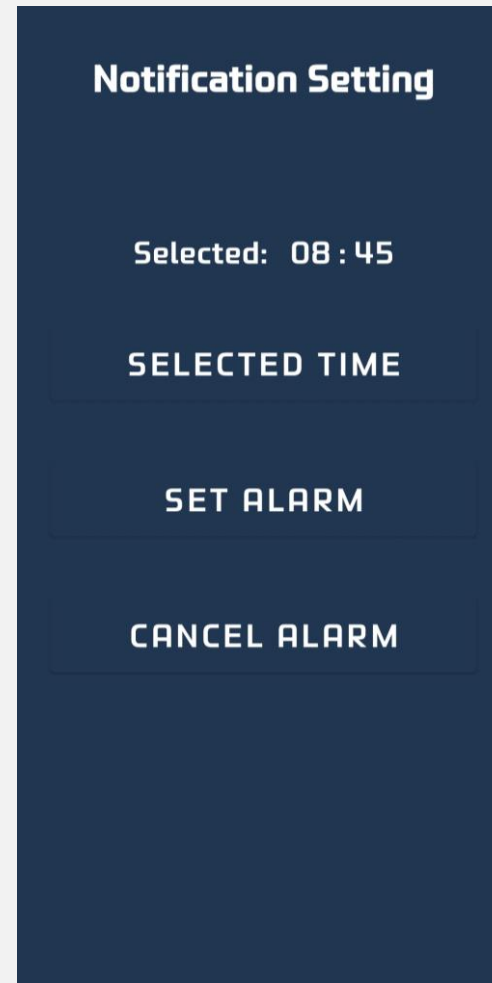
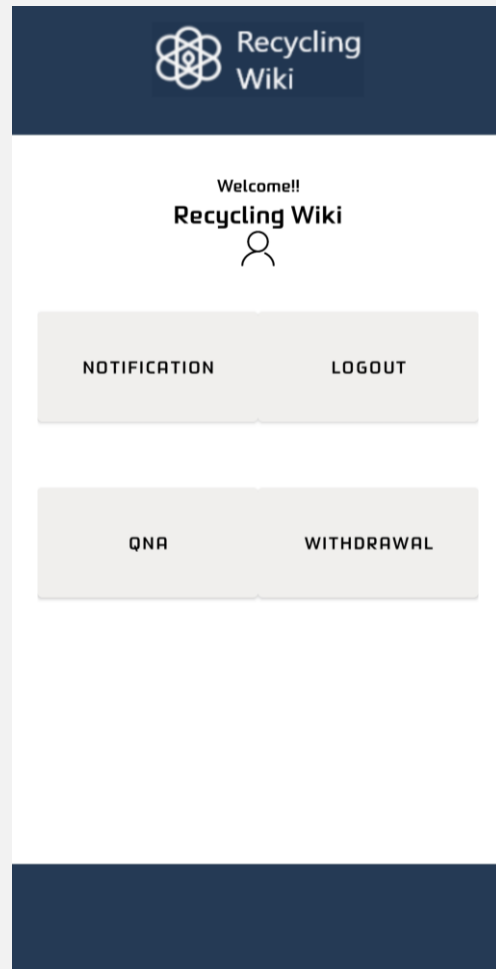
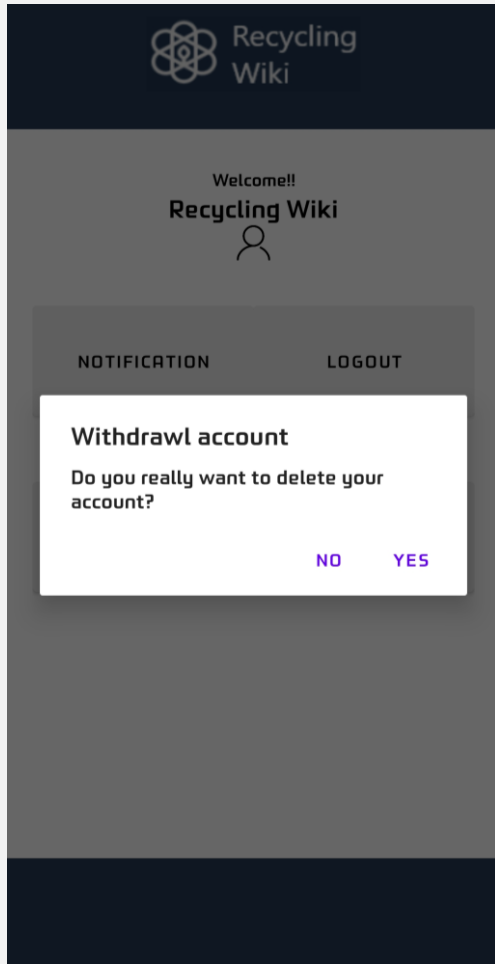


Search item shows list of confusing items.

We made it as recycler view with filtering method.

If we click each item, we can see the detailed information.

## My page

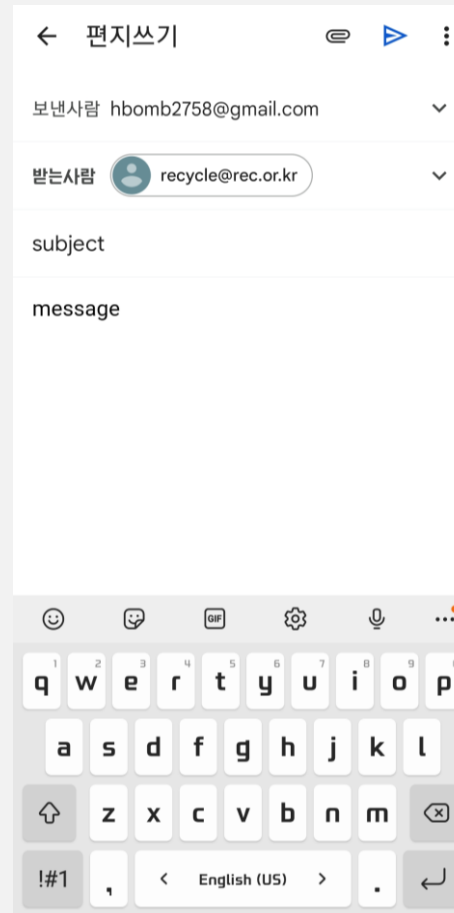
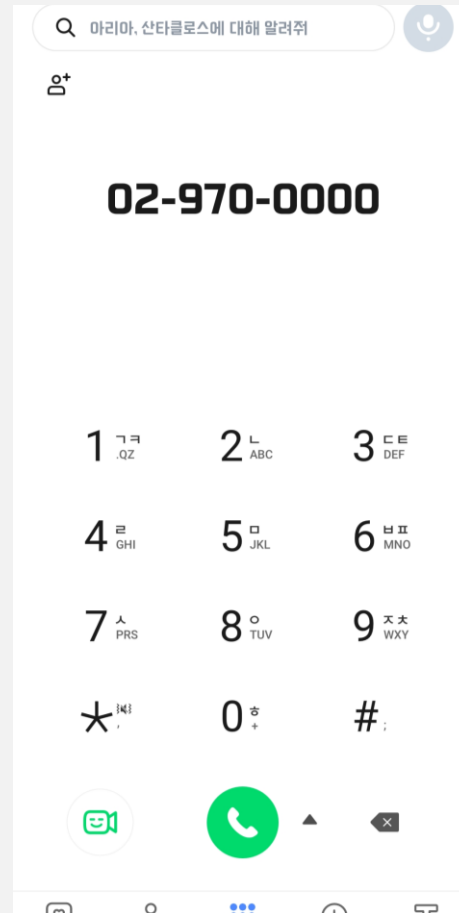
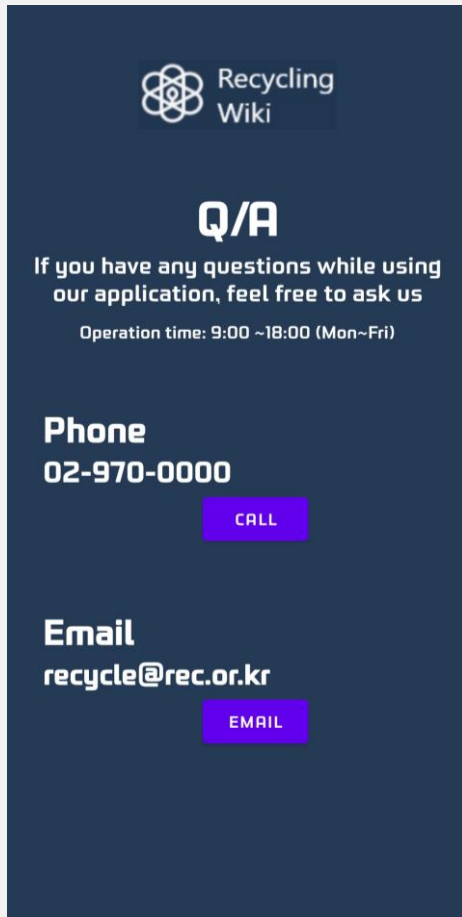


In my page, we can make specific settings.

We can set notification time,  
Log out  
Q&A  
And withdrawl our account.

Q&A, we can make phone call or send email.

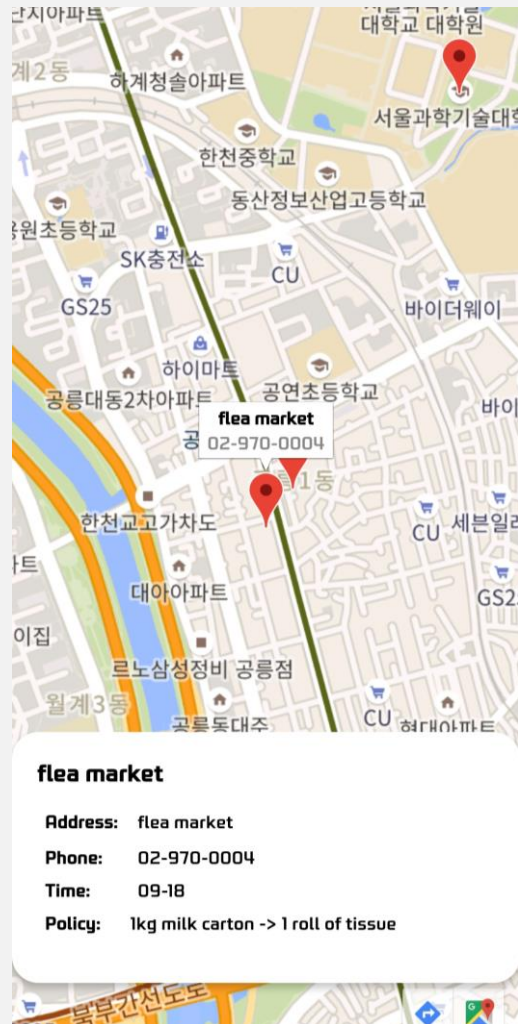
## My page



In Q&A page,  
we can make phone call  
or send email.



## Map view



With Google map API,  
We can see specific location of  
flea market or sharing house.

Also detailed information of each  
location is shown by card view

**5**

***Demonstration***



*Thank  
you*