



2024 MobileProgramming TermProject

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Our App Purpose



A mix of diaries with different uses for different people



An app that makes it convenient to share schedules and plans



1. An app that collects various diary functions
2. A shareable app where people gather together



Firebase

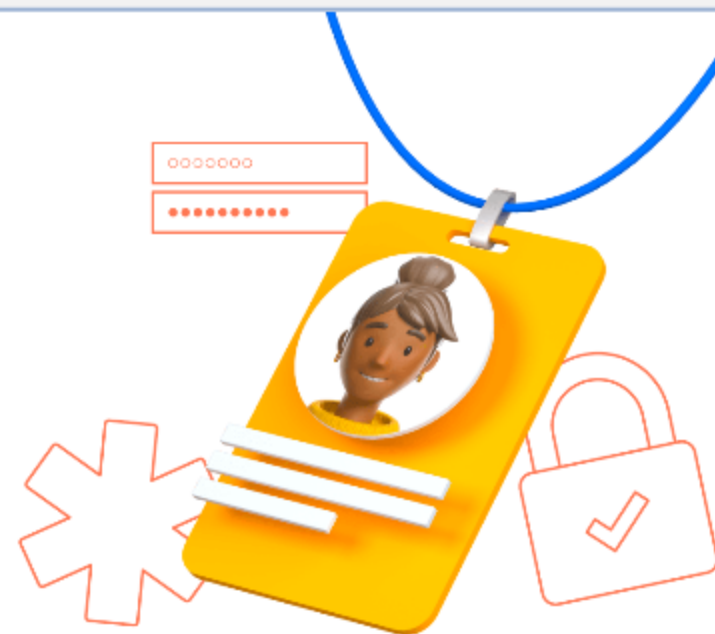
Realtime Database

Used for overall data storage and retrieval



Authentication

Used for app registration/login and email authentication



Cloud Firestore

Used to implement real-time chat



Cloud Storage

Used to save and load images used in the app



Google Map



Used for group map maps

Google Calendar



Connect the API to create a calendar

Function



Diary



Group



Map



Log in



Alram



Exchange
Diary



Invite



Calendar



MyProfile



Chatting

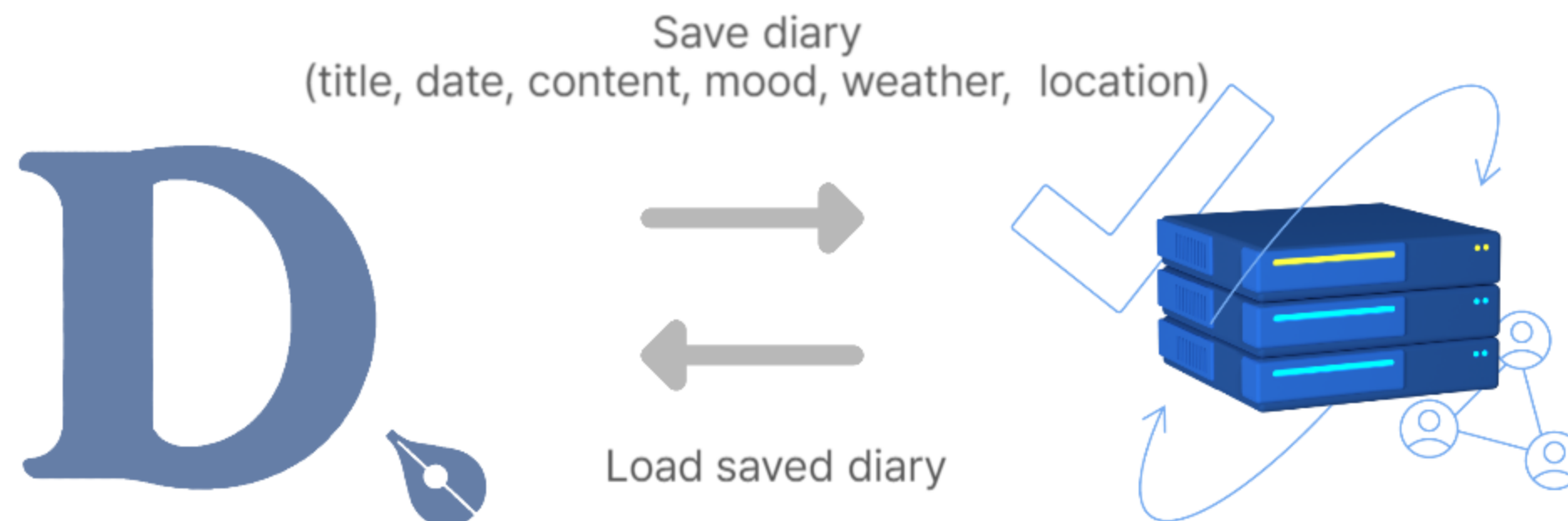


Diary

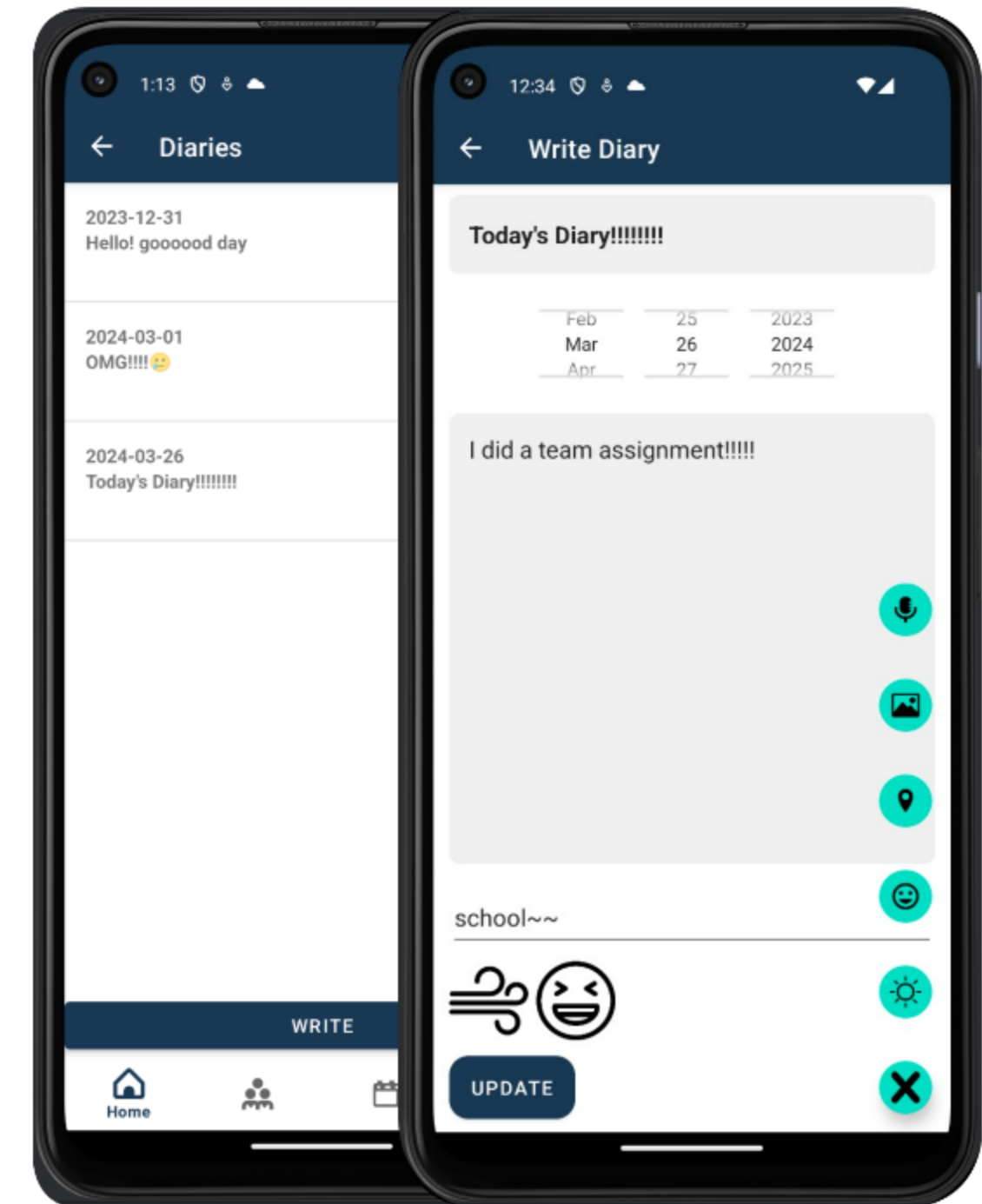
Feature

- You can write and save the title, date, content, mood, weather, and location
- You can view and edit your saved diary

Main Method



Functional Structure

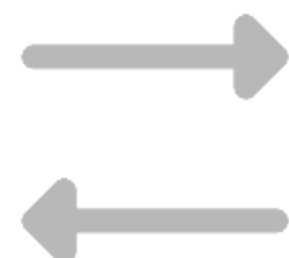


Feature

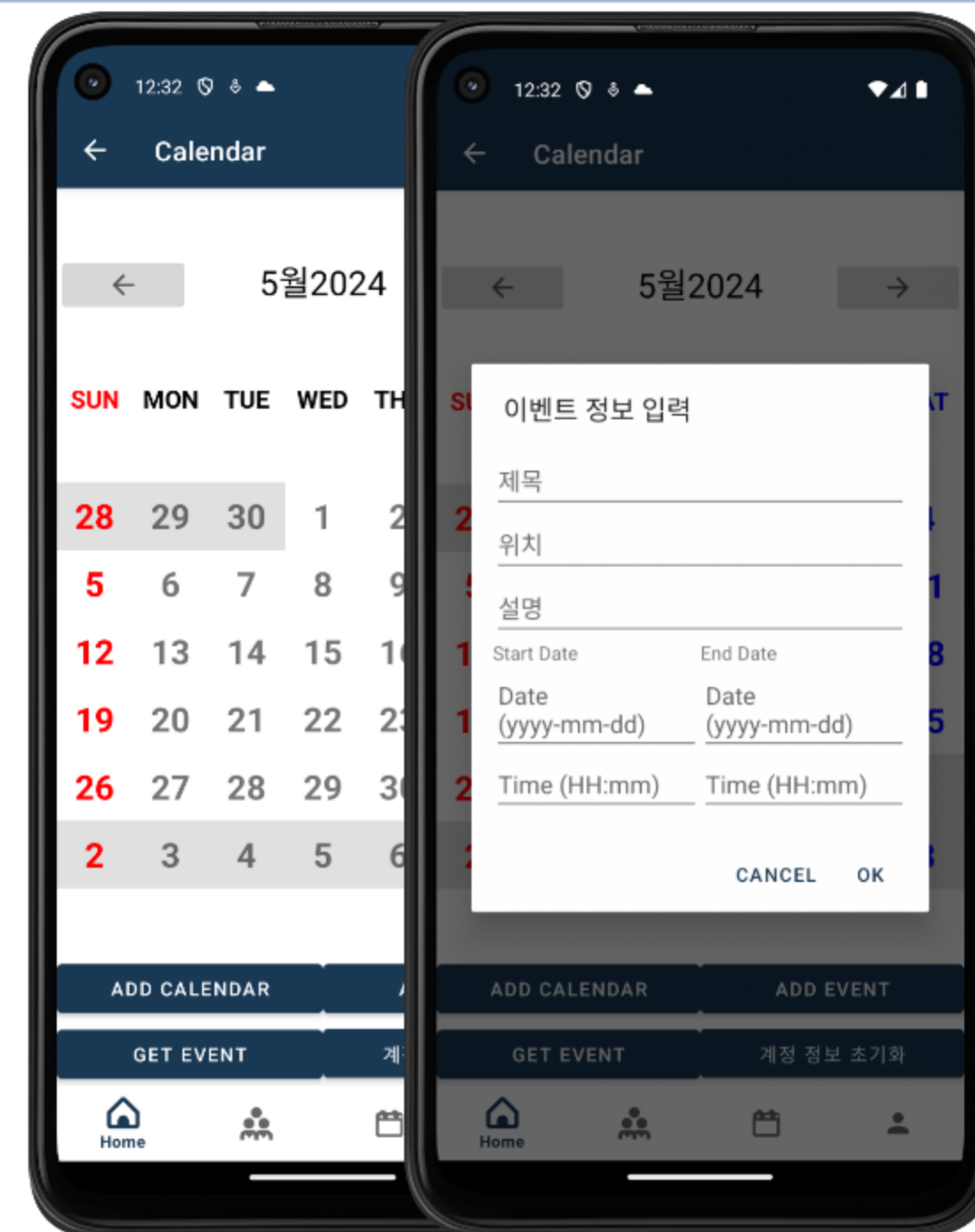
- Uses Google Calendar API
- Schedules can be added to Google Calendar
- You can load and check schedules added to Google Calendar

Main Method

If you add a schedule,
it will be linked to Google Calendar



Load schedule saved
in Google Calendar



Group Map

Functional Structure

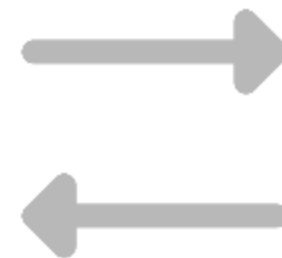
Feature

- Use of Google Maps API
- Users can look at the map and see at a glance what schedule is at what location

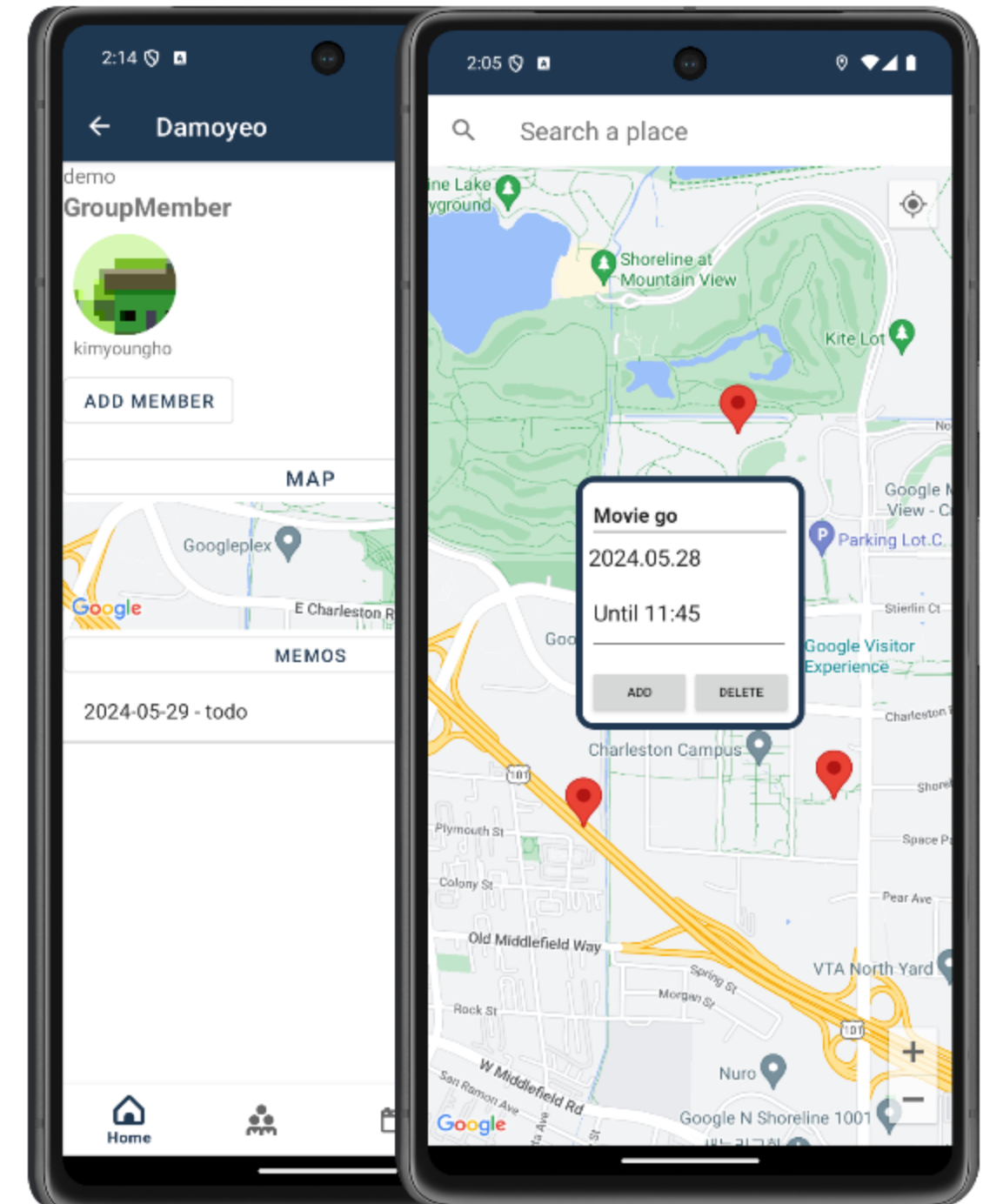
Main Method



Save latitude, longitude, notes



Retrieve saved information

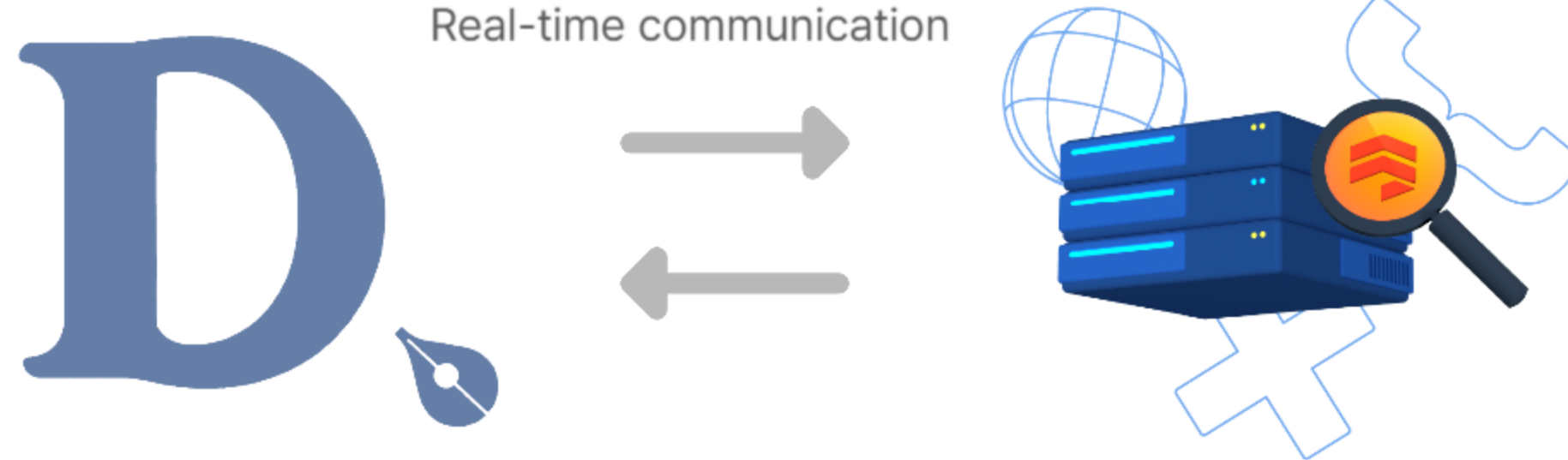


Group Chatting

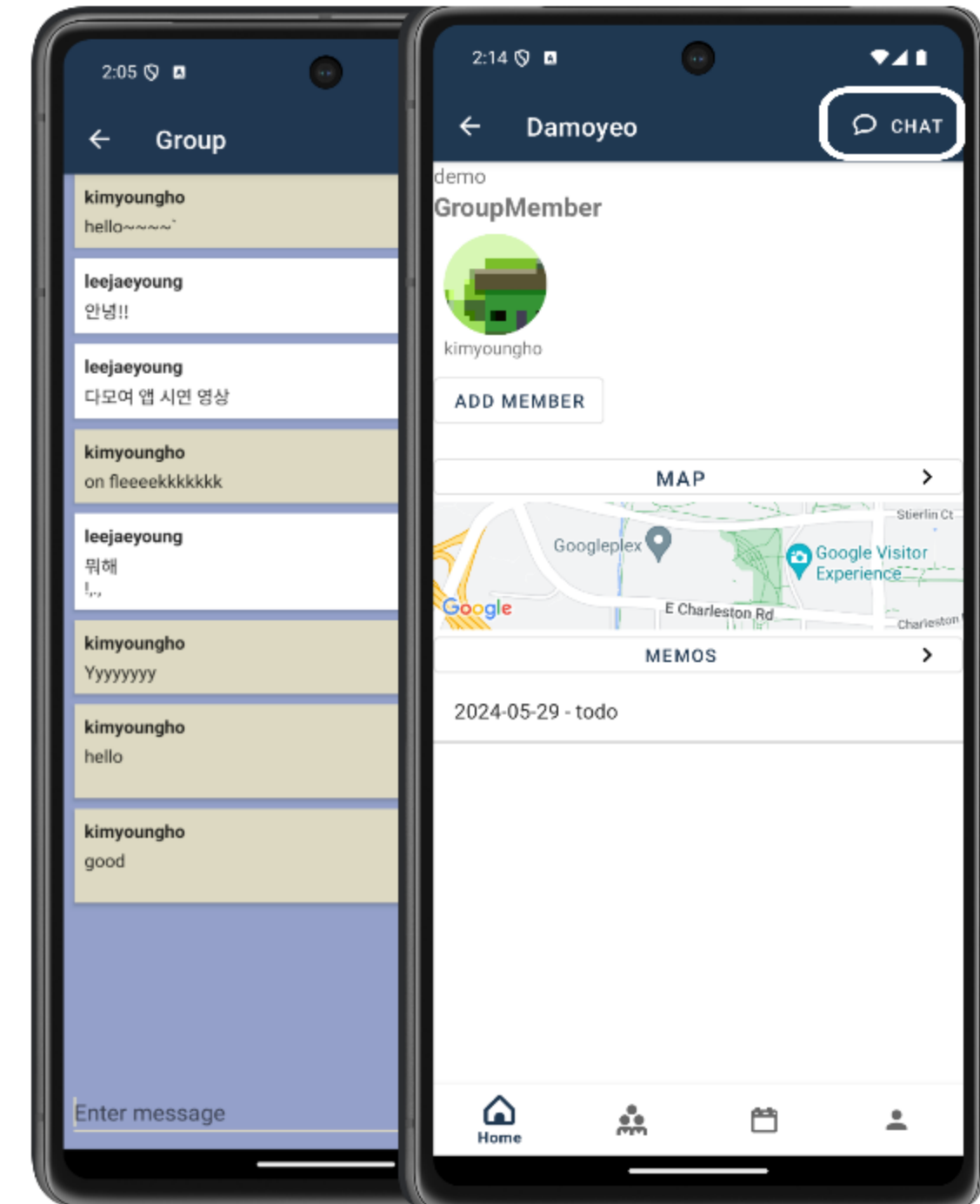
Feature

- People invited to the group can be invited to chat
- All invited people can gather together and communicate in real time within the app

Main Method



Functional Structure



Additional Function



Sign up/ Log in/ Email verification

- You can use the app after registering and logging in.
- When signing up, you must verify your email address to sign up.



My Profile

- You can view and edit member information (profile photo, name, email, age, gender, bio)



Diary Alarm

- Sends an alarm to write a diary at a specified time

Additional Function



Group

- Schedule, location, and exchange diary can be shared among people invited to the group
- Real-time communication is possible between people invited to the group



Exchange Diary

- People in the same group can share each other's diaries



Invite

- You can invite people working on the same project to a group via email

Additional Work

Features I would like to implement additionally in the future

Design

- Rather than a basic design, we want to implement a unique design that only our app has.

Map

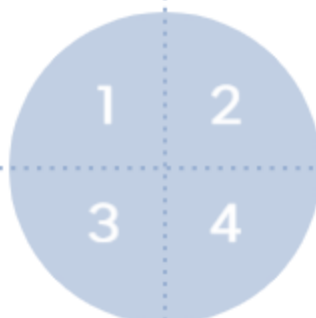
- Ability to receive a notification when you approach the location of the memo

Diary

- A function that allows you to filter and collect diaries according to your mood
→ Happy Piggy Bank
- Ability to write text by voice

Calendar

- Added a group calendar function linked to a personal calendar by implementing an internal calendar rather than a calendar API that requires Google email.



Demonstration Video



Our GitHub Address

Project's

<https://github.com/Heejae-L/DaMoYeo.git>

Member's

<https://github.com/doturak> - 202135743 김윤

<https://github.com/jaeyoung-lee> - 202135812 이재영

<https://github.com/Heejae-L> - 202135821 이희재

<https://github.com/sunmin-cho> - 202135838 조선민



- Icon: <https://www.flaticon.com/kr/>
- Firebase RealtimeDatabase: <https://firebase.google.com/docs/database/android/start?hl=ko>
- Firebase Authentication: <https://firebase.google.com/docs/auth/android/email-link-auth?hl=ko>
- Firebase CloudFirestore: https://firebase.google.com/docs/emulator-suite/connect_firestore?hl=ko
- Firebase CloudStorage: https://firebase.google.com/docs/emulator-suite/connect_storage?hl=ko
- Google API: [https://console.cloud.google.com/apis/credentials/key/c464909b-871c-4f71-a68d-80761a312d54?
project=neat-encoder-424007-n1](https://console.cloud.google.com/apis/credentials/key/c464909b-871c-4f71-a68d-80761a312d54?project=neat-encoder-424007-n1)

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THANK YOU!