Wanderlust

community hiker guide

Target users and the problem they are facing

- Hikers
    - beginners - experts
    - teenager - older people
    - so basically every kind of hiker
- absence of hiking community
- no access to information about hiking
- takes as lot of time to plan by yourself

The key solution idea to tackle the problem

Hiking community application:

- Map with with crowdsourced information
  - Route is shown on the map
  - Extra information is shown via pins on the map
- Overview of the routes with pictures and ratings from users.
- Anybody can add routes
- Adding rotes is easy due to GPS

System Architecture

Flutter

- Open source, cross platform app framework
- Makes UI implementations easier
- Uses Dart which is similar to Java

Google Maps

- Free
- Unlimited amount of users
- Plugin for Flutter exists

Database

We are using different Google Firebase products:

- Authentication for the user system
- Cloud Firestore as Database
- Storage for saving pictures

Firebase Authentication

Bezeichner	Anbieter	Erstellt	Angemeldet	Nutzer-UID ↑
testuserpinh@test.com	✉	05.12.2019	05.12.2019	3Cqq4oO3u1hFmNpCKEhP30hYB...
di@di.se	✉	08.12.2019	09.12.2019	9VpxLRLLjJPa0s99EariraREgWj2
test@test.test	✉	05.12.2019	05.12.2019	DaRyTy2pDOVma3v4Tx1EKk93po73
e.johansson@zoho.com	✉	22.11.2019	03.12.2019	SySseC1JFpeZFvvGo2doT5u6kek1
test@test2.test2	✉	05.12.2019	05.12.2019	VA1DNnkZMvaqzLo8asOfL93tC6K2
testdouble@close.com	✉	07.12.2019	07.12.2019	bYaal01AOvUKHkdoXKYotjWSlPn2
test@test.de	✉	05.12.2019	05.12.2019	buJBBOs5PSTFqpAfpDKQgWxecq...

Nach E-Mail-Adresse, Telefonnummer oder Nutzer-UID suchen

Nutzer hinzufügen

Firebase Cloud Firestore

Firebase Storage

	Name	Größe	Typ	Letzte Änderung
	gs://wanderlust-a2dd4.appspot.com			
☐	📁 Hike_Pictures/	—	Ordner	—
☐	📁 profile_picture/	—	Ordner	—

Technical Challenges

- All the setting up (Google Maps API, Firebase)
- Retrieving useful data from a set of GPS points

Project Management

Scope

- Integrated Map to show route path and extra information ✔
- User System (✔)
  - System for signing up and logging in ✔
  - Rating routes ✔
  - Commenting on routes ✘
- Database for storing route information ✔
- Possibility to use the app offline ✘

Roles

Two Teams:

UI Team:

- Andre, Dimitri

Backend Team:

- Dowon, Emil, Jonas

Timeline

Week 1-4 (16.9-13.10): Setting up Google Maps, getting to know Flutter, first UI prototype

Week 5 (14.10-20.10) Working out Data Models

Week 6-7 (21.10-3.11) Connecting Google Firebase on different branch, first prototype of recording route with GPS

Week 8 (4.11-10.11) UI updates (image picker, hike history), merge database and UI branch

Week 9 (11.11-24.11) Added User System (UI and Database)

Week 11-12 (25.11-8.12) Major and Minor bug fixes

What we learned

- Setting progressive goals was a good idea
- There is a lot of (mostly) free tools to help build an app

Presentation

What do hikers want?

Follow the route recommended by others!

Create a new route and try it!

Just start hiking without a concrete plan
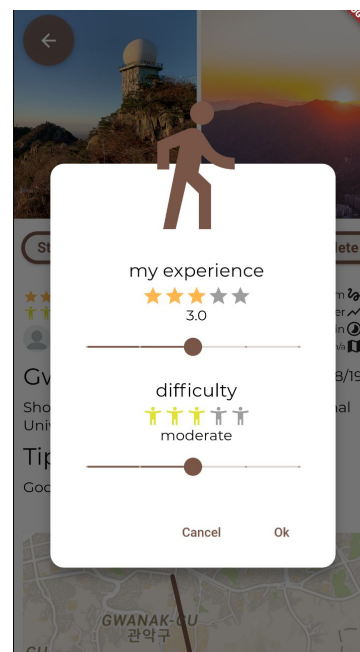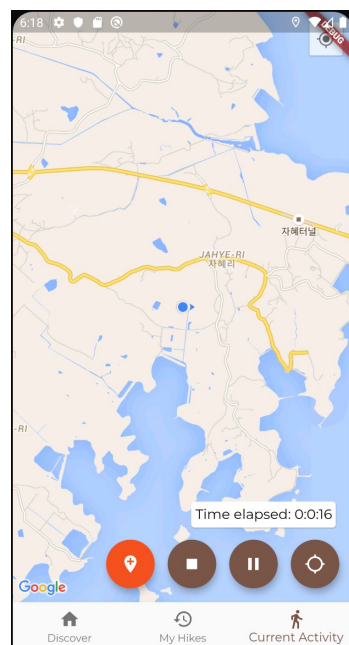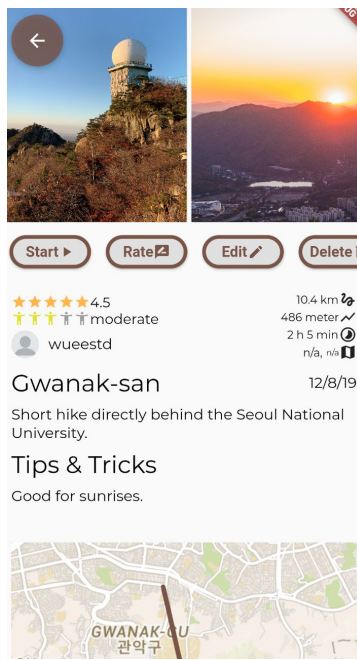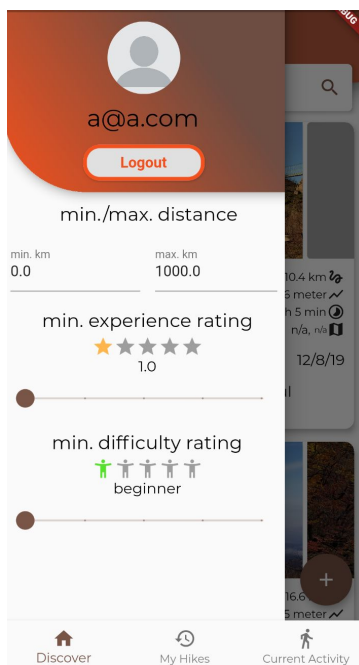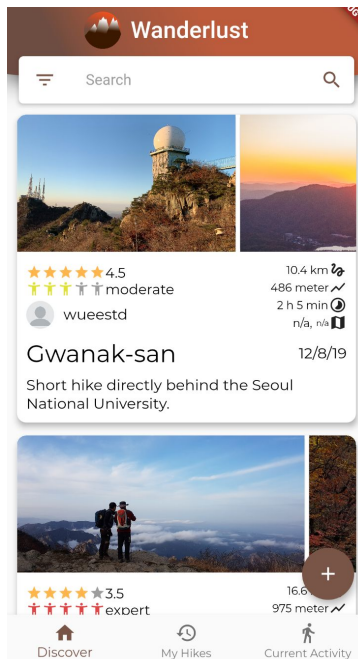
Follow others!

Discover ⟹ Filter ⟹ Route info ⟹ Hike! ⟹ Rate
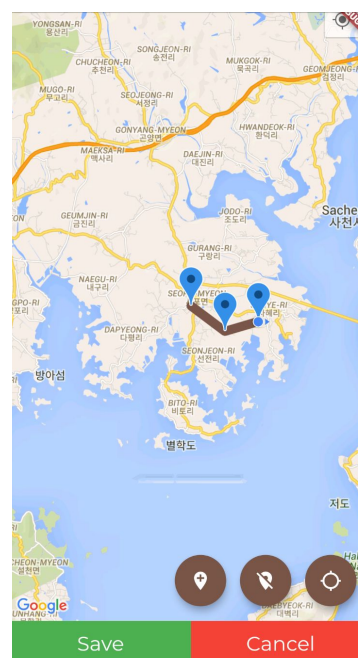
Create a new route!
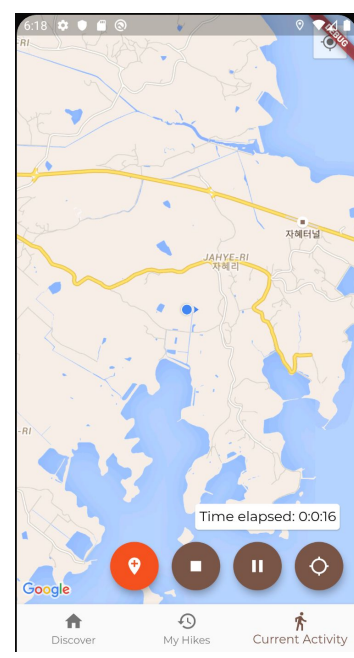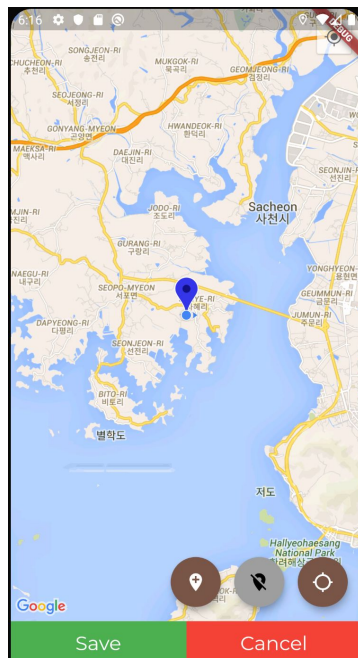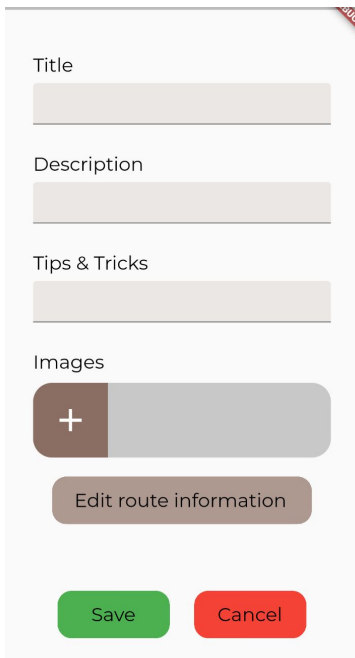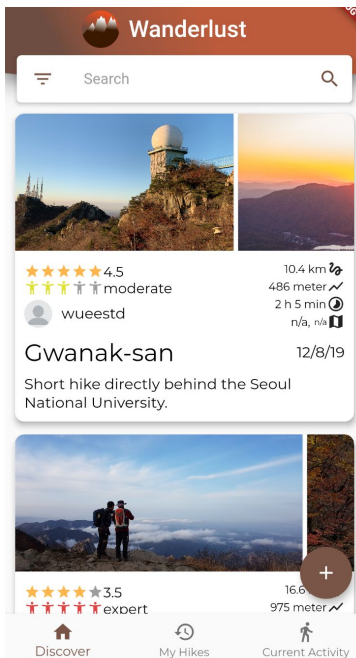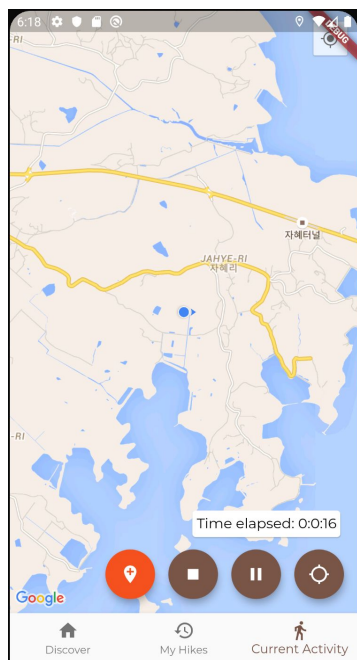
Just start hiking!

| Current Activity | ⇨ | Hike! | ⇨ | Add pins | ⇨ | Hike history | ⇨ | Share! |
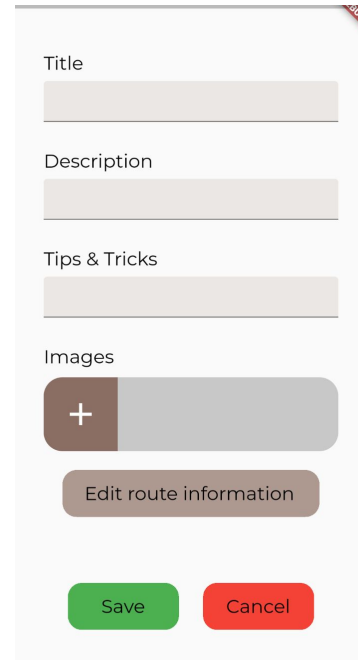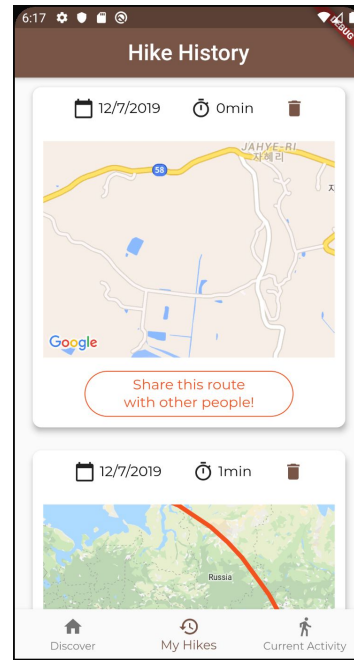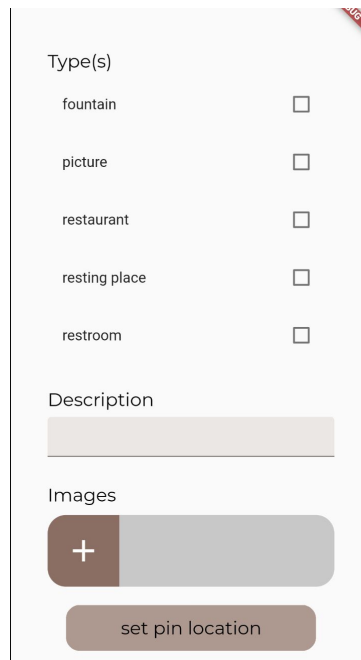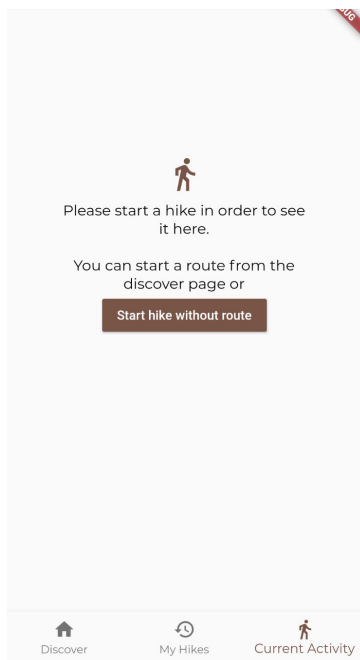
Screen 1 — Current Activity

Please start a hike in order to see it here.

You can start a route from the discover page or

Start hike without route

Discover   My Hikes   Current Activity

Screen 2 — Hike!

6:18

Time elapsed: 0:0:16

Google

Discover   My Hikes   Current Activity

Screen 3 — Add pins

Type(s)

fountain ☐

picture ☐

restaurant ☐

resting place ☐

restroom ☐

Description

Images

＋

set pin location

Screen 4 — Hike History

6:17

Hike History

📅 12/7/2019   ⏱ 0min   🗑

Google

Share this route
with other people!

📅 12/7/2019   ⏱ 1min   🗑

Russia

Discover   My Hikes   Current Activity

Screen 5 — Share!

Title

Description

Tips & Tricks

Images

＋

Edit route information

Save   Cancel

Q&A

Thank you for listening!