Final Project Report

2017313008 김태은
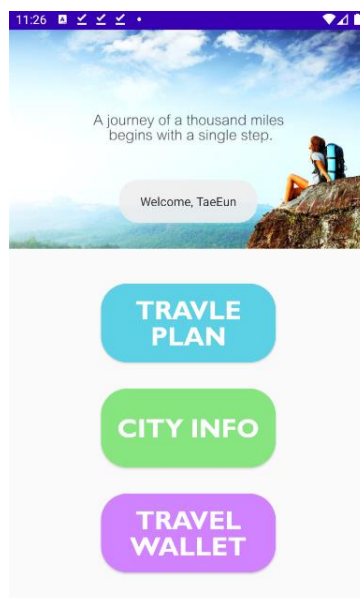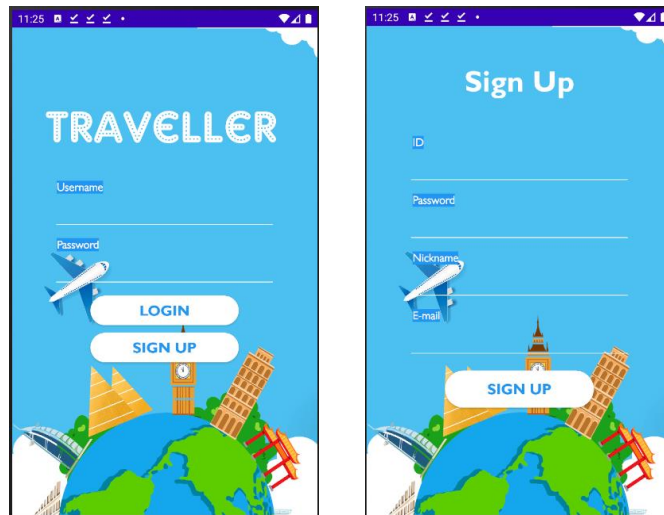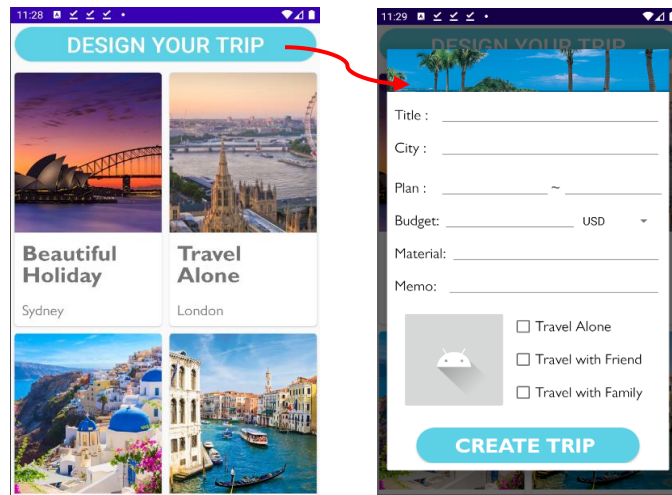
1. 주제

어플리케이션 이름: Traveller

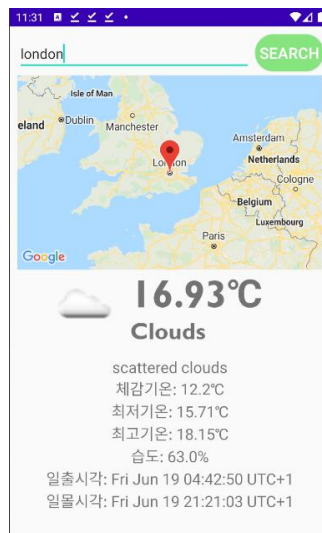여행을 할 때 편리하게 사용할 수 있는 기능들을 담은 여행 어플리케이션입니다.
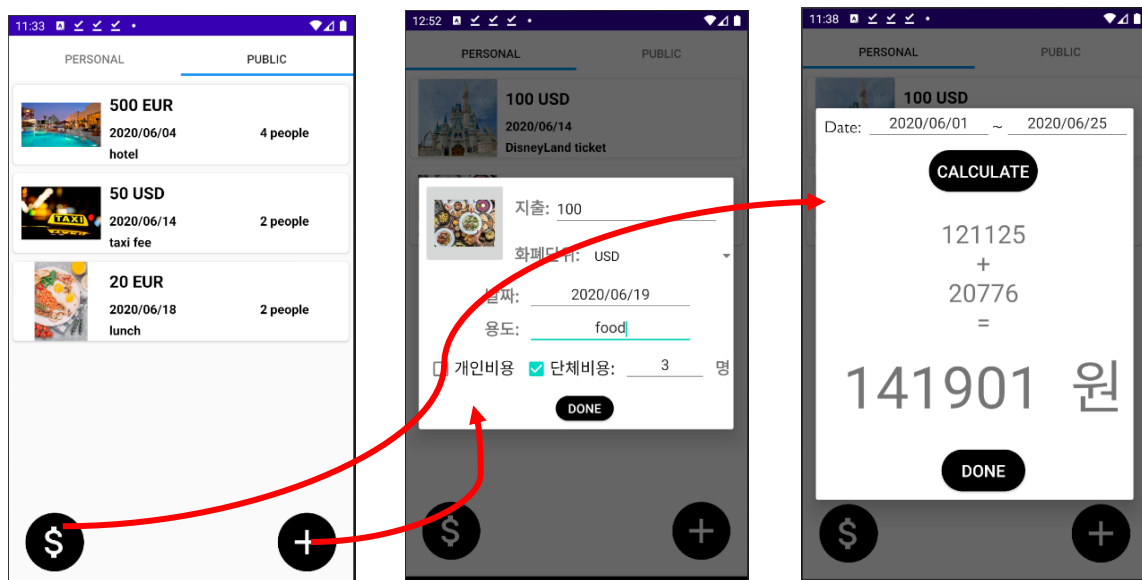
크게 총 4가지의 기능이 있습니다.

① Login & Sign Up
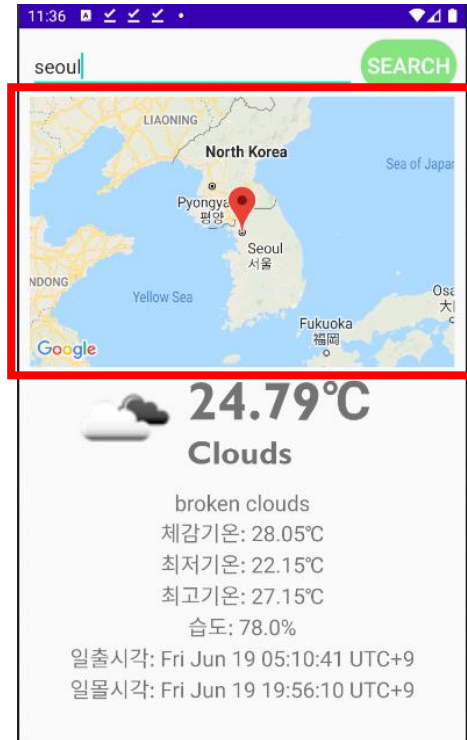
② Create & View Travel Plan

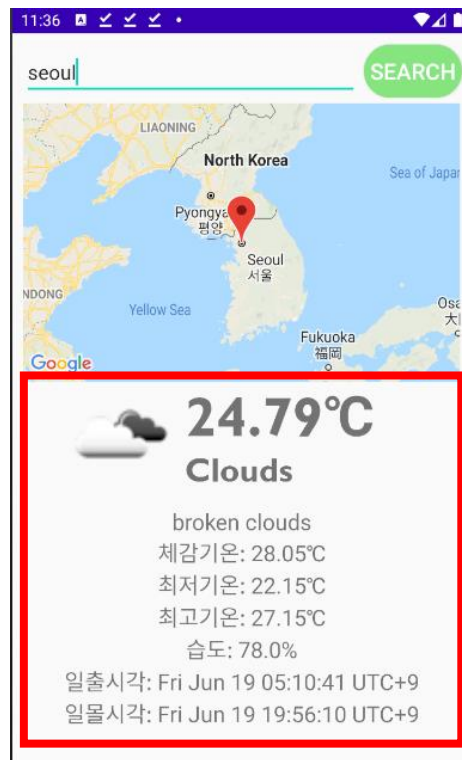## ③ Search City Info

④ Manage Travel Wallet

2. Open API

① Google Map API

https://cloud.google.com/maps-platform?hl=ko
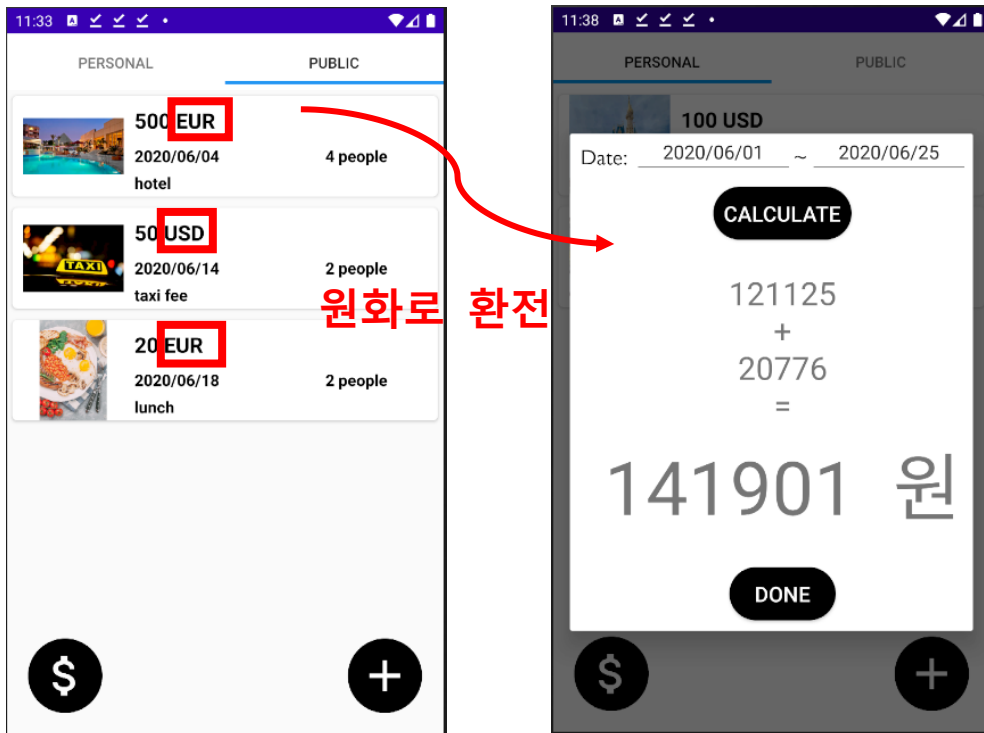

② OpenWeatherMap API

https://openweathermap.org/current

③ Foreign Exchange rates API

https://exchangeratesapi.io/

3. Back-end Server : Firebase

finalproject-b85b3
- money
  - taeeun
  - xodms8713
    - private
      - -M9y633p8eoTjTT2fL1Z
      - -M9y6HZJvLQU59wXgtge
    - public
      - -M9y5HtqFVnHvr71AWLO
      - -M9y7r1Za04CU2EZu_Q2
      - -M9y8HLS-wAntAd88JTN
  - zzz0102
- trip
  - taeeun
  - xodms8713
    - -M9yDj-7qGkgc6ur1ltX
    - -M9yE-0XrRL2mW4h9kE3
    - -M9yEDySOIge28WxeojL
    - -M9yEbiASaC_7v0ysoqK
- user_list
  - taeeun
  - xodms8713
  - zzz0102
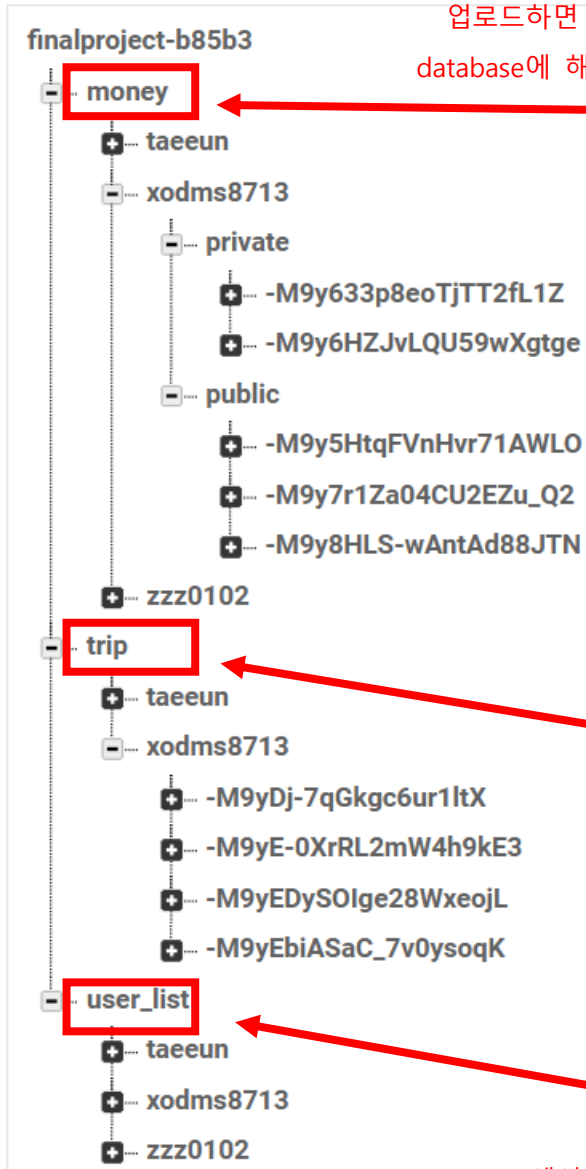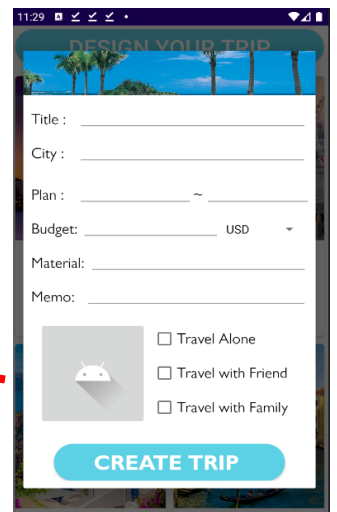
Wallet page pop up에서 지출상황을 업로드하면 Firebase real-time database에 해당 내용이 저장된다.
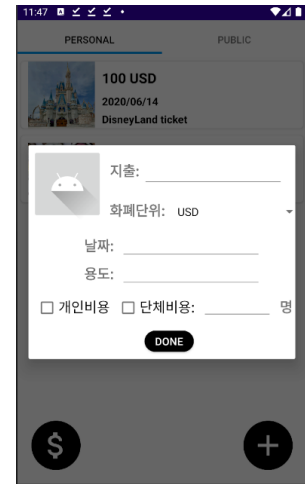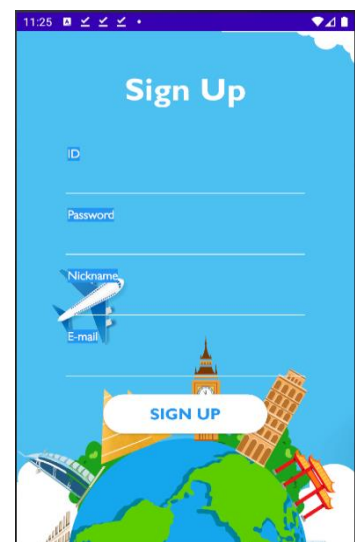
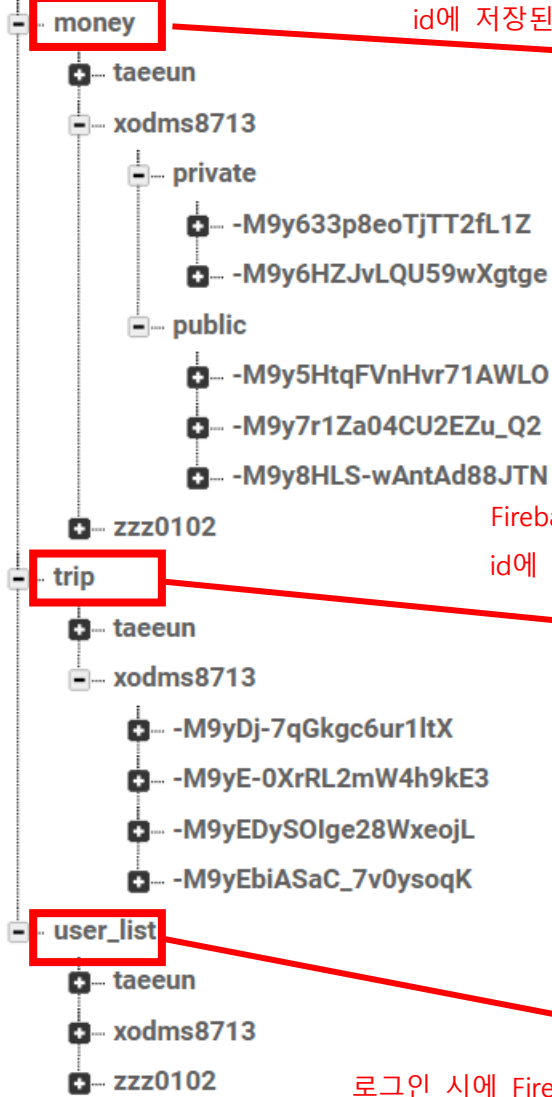Plan page pop up에서 여행계획을 업로드하면 Firebase real-time database에 해당 내용이 저장된다.
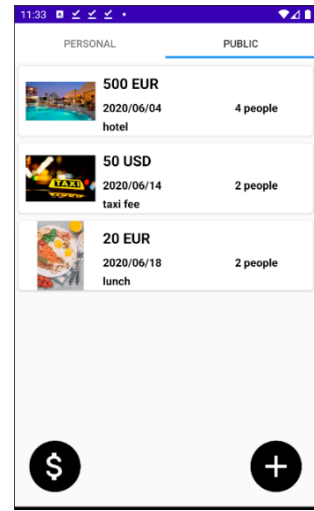
Sign Up page에서 회원가입을 하면 Firebase real-time database에 해당 내용이 저장된다.

finalproject-b85b3
- money
  - taeeun
  - xodms8713
    - private
      - -M9y633p8eoTjTT2fL1Z
      - -M9y6HZJvLQU59wXgtge
    - public
      - -M9y5HtqFVnHvr71AWLO
      - -M9y7r1Za04CU2EZu_Q2
      - -M9y8HLS-wAntAd88JTN
  - zzz0102
- trip
  - taeeun
  - xodms8713
    - -M9yDj-7qGkgc6ur1ltX
    - -M9yE-0XrRL2mW4h9kE3
    - -M9yEDySOIge28WxeojL
    - -M9yEbiASaC_7v0ysoqK
- user_list
  - taeeun
  - xodms8713
  - zzz0102
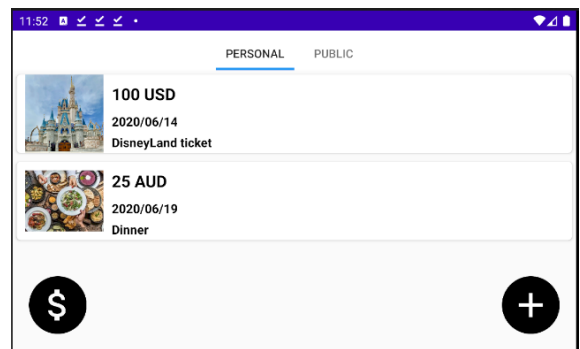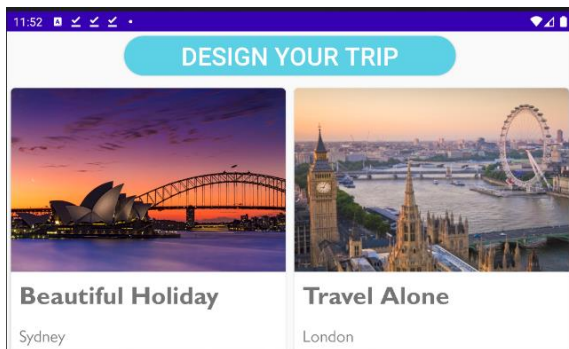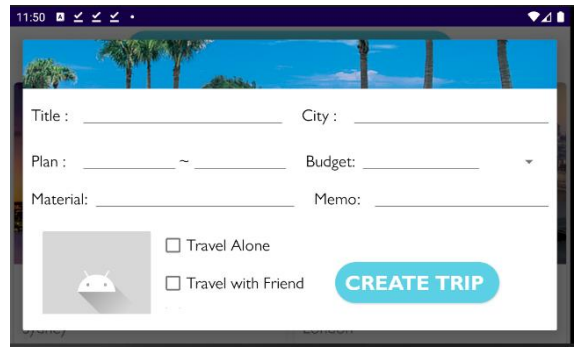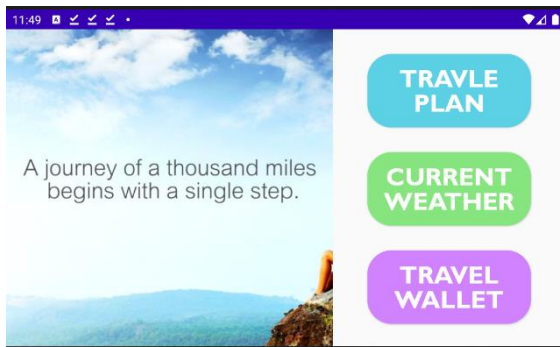
Firebase real-time database에서 해당 id에 저장된 지출 내역을 불러온다.

Firebase real-time database에서 해당 id에 저장된 여행 계획들을 불러온다.
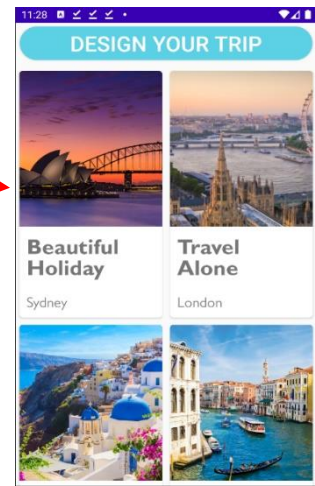
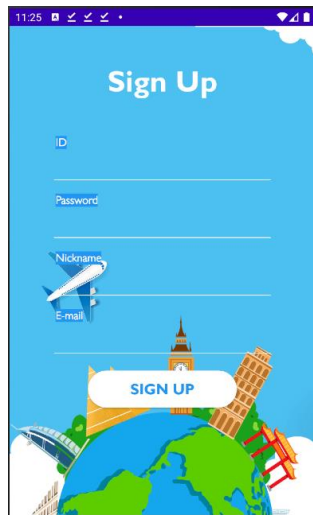로그인 시에 Firebase real-time database에서 정보를 확인하여 성공/ 실패 여부를 알려준다.
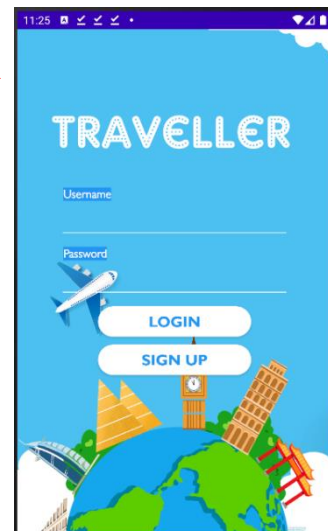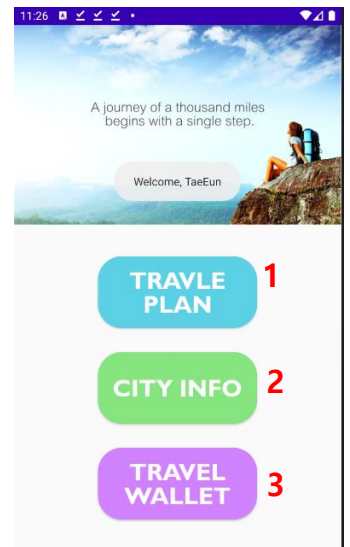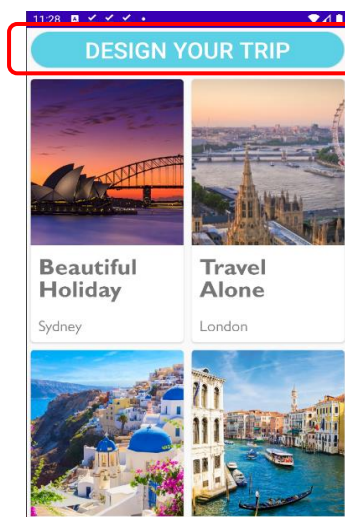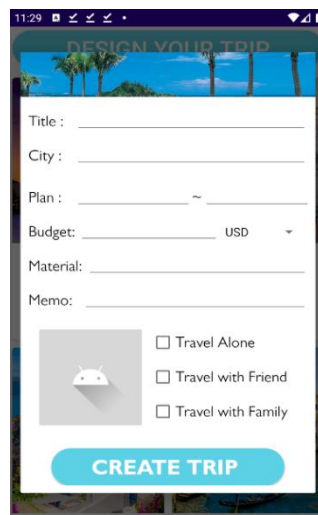
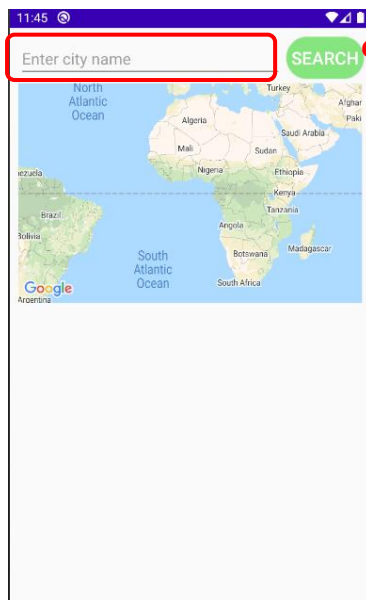# 4. Supporting Landscape
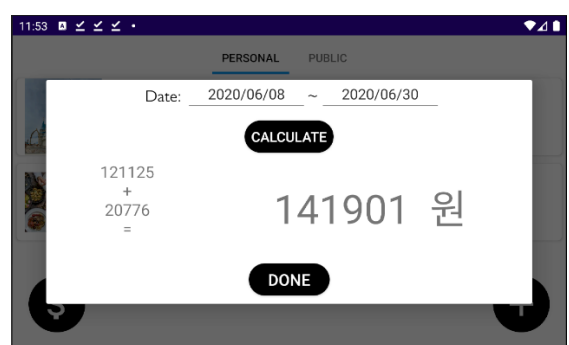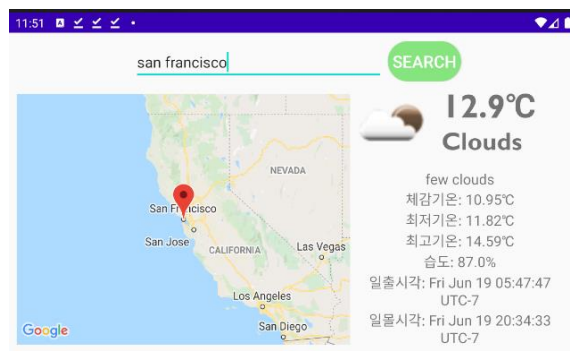
5. How to use

회원가입
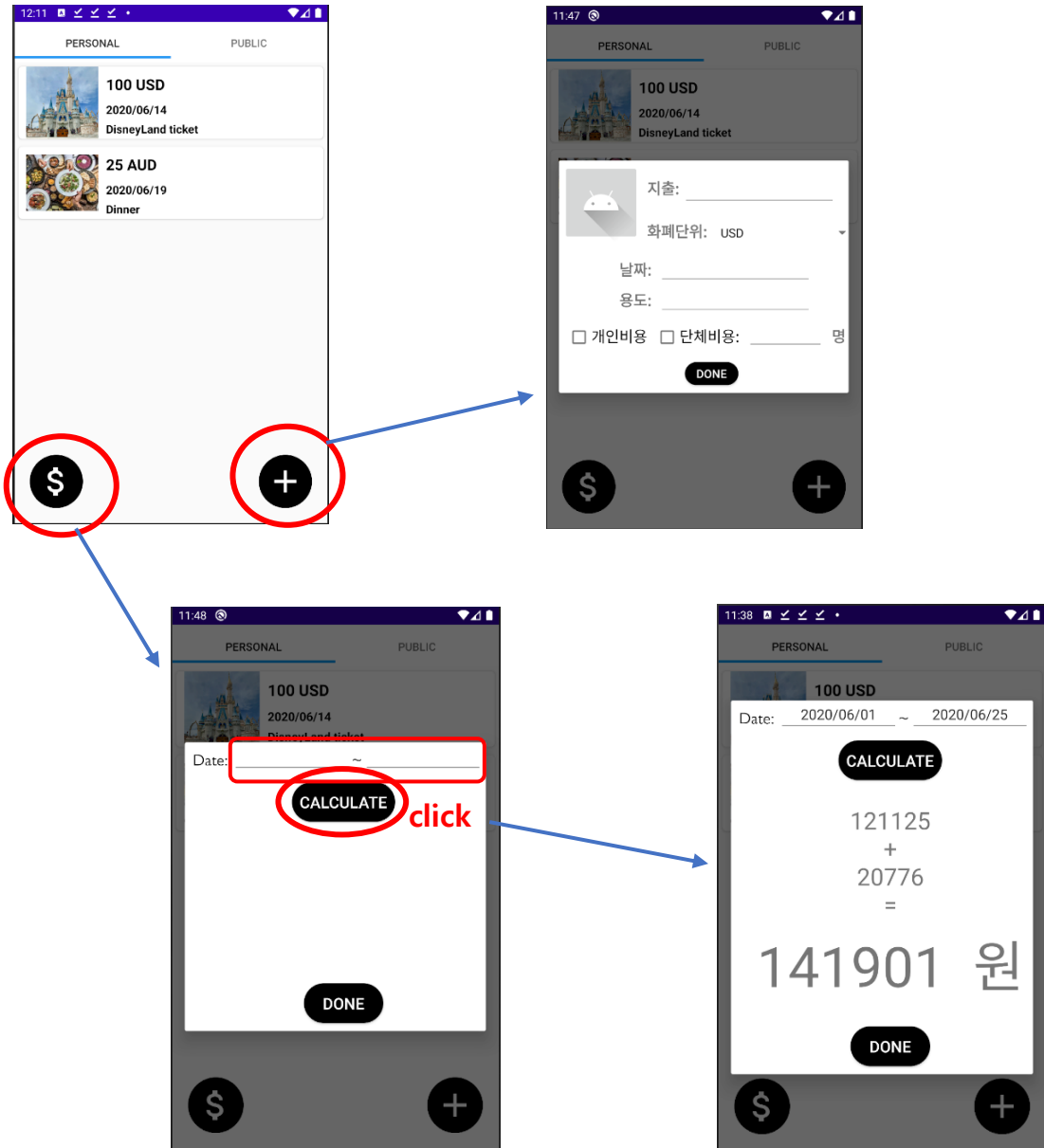

로그인

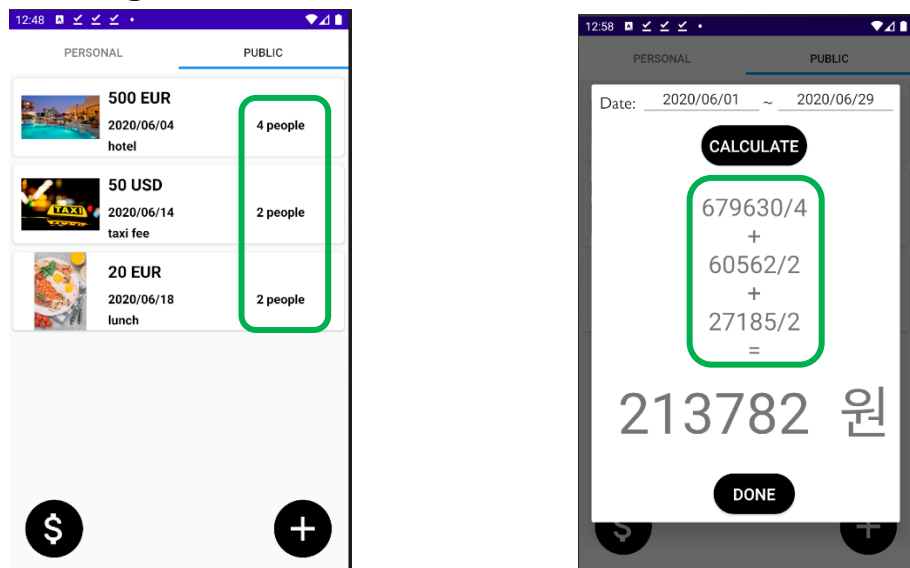

Select Page

1. TRAVEL PLAN

click

2. CITY INFO

click

3. TRAVEL WALLET

public fragment일 때는, 명수로 나눈 금액을 보여준다.

6. Challenge

Challenge 1 RecyclerView With CardView in a GridLayout
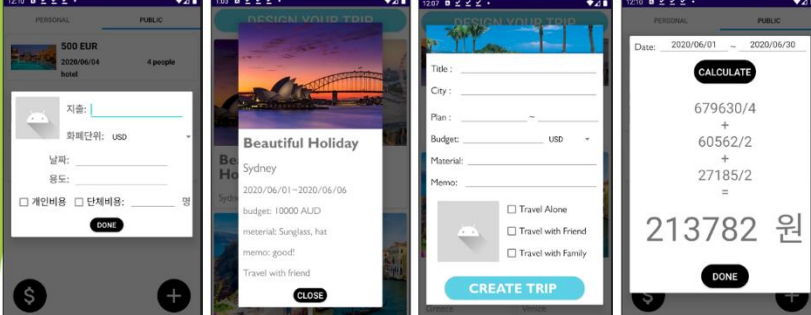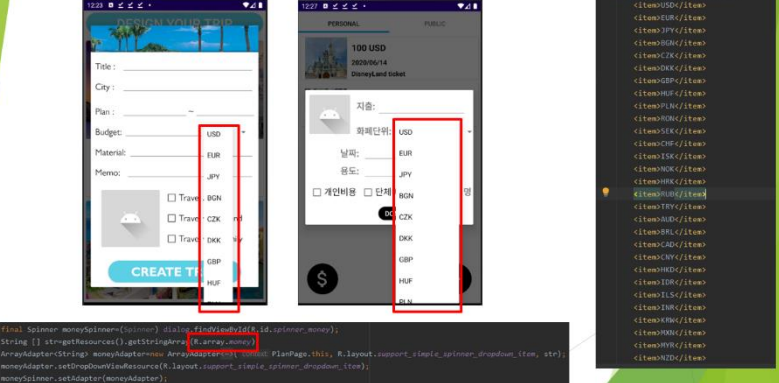
Fragment+viewPager2+RecyclerView+CardView

Challenge 2 Pop Up Dialog
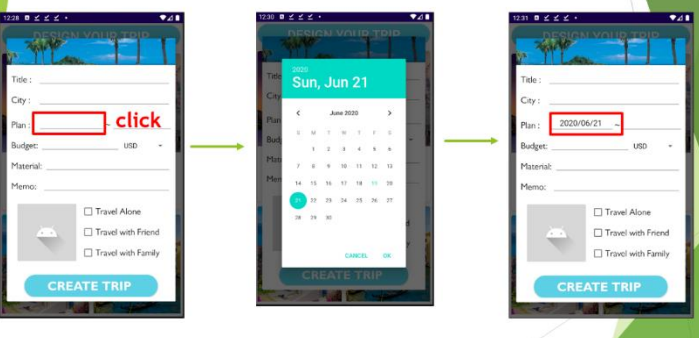
Challenge 3 Spinner
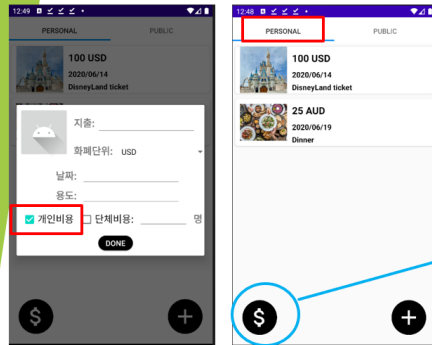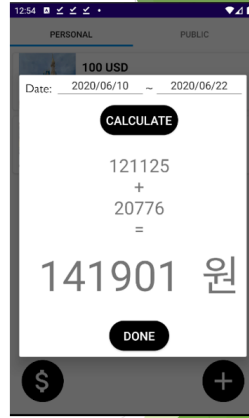

Challenge 4 DatePicker

7. Creativity

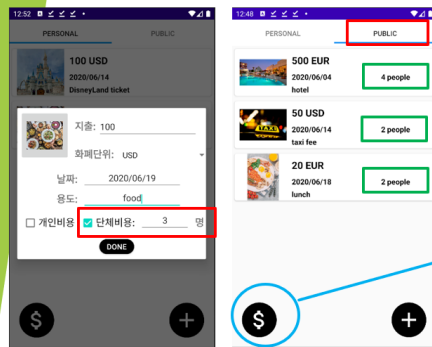**travel wallet에서 개인 비용 / 단체 비용을 나눠서 관리할 수 있습니다.**

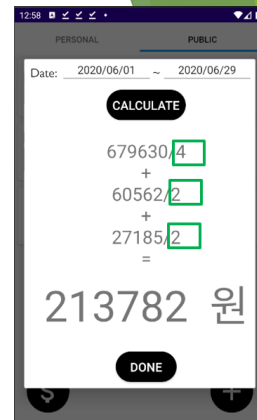## Creativity 1 (travel wallet)

Personal Fragment -> 개인 비용

날짜 선택 -> 해당 날짜 동안 사용한 돈의 합계를 원화로 환전해서 보여줌
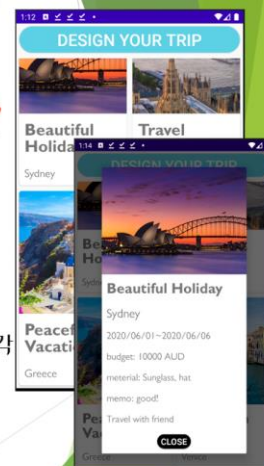

Public Fragment -> 단체 비용

날짜 선택 -> 해당 날짜 동안 사용한 돈을 인원수 만큼 나눈 후, 합계를 원화로 환전해서 보여줌

Creativity 2 (travel plan, city info)

도시 이름을 검색하면 지도, 날씨, 기온, 습도, 일출/일몰 시각의 정보를 얻을 수 있습니다.

여행 플랜을 디자인하고 그것을 카드뷰 형식으로 볼 수 있으며, 각 카드를 클릭하면 자세한 정보를 확인할 수 있습니다.

Reference Sources

- Google Map API

  https://developers.google.com/maps/documentation/android-sdk/?hl=ko

  https://webnautes.tistory.com/647

- Cardview

  https://developer.android.com/guide/topics/ui/layout/cardview?hl=ko

  http://kukroid.com/2017/12/13/recyclerview-with-cardview-in-a-gridlayout/

- Datepicker

  https://developer.android.com/reference/android/widget/DatePicker

  https://wookkwang.tistory.com/entry/widget-EditText%EB%A5%BC-%ED%81%B4%EB%A6%AD%ED%95%98%EC%97%AC-DatePicker-%EB%B0%8F-TimePicker-%EB%8B%A4%EC%9D%B4%EC%96%BC%EB%A1%9C%EA%B7%B8-%ED%8C%9D%EC%97%85%ED%95%98%EA%B8%B0

- Spinner

  https://developer.android.com/guide/topics/ui/controls/spinner?hl=ko