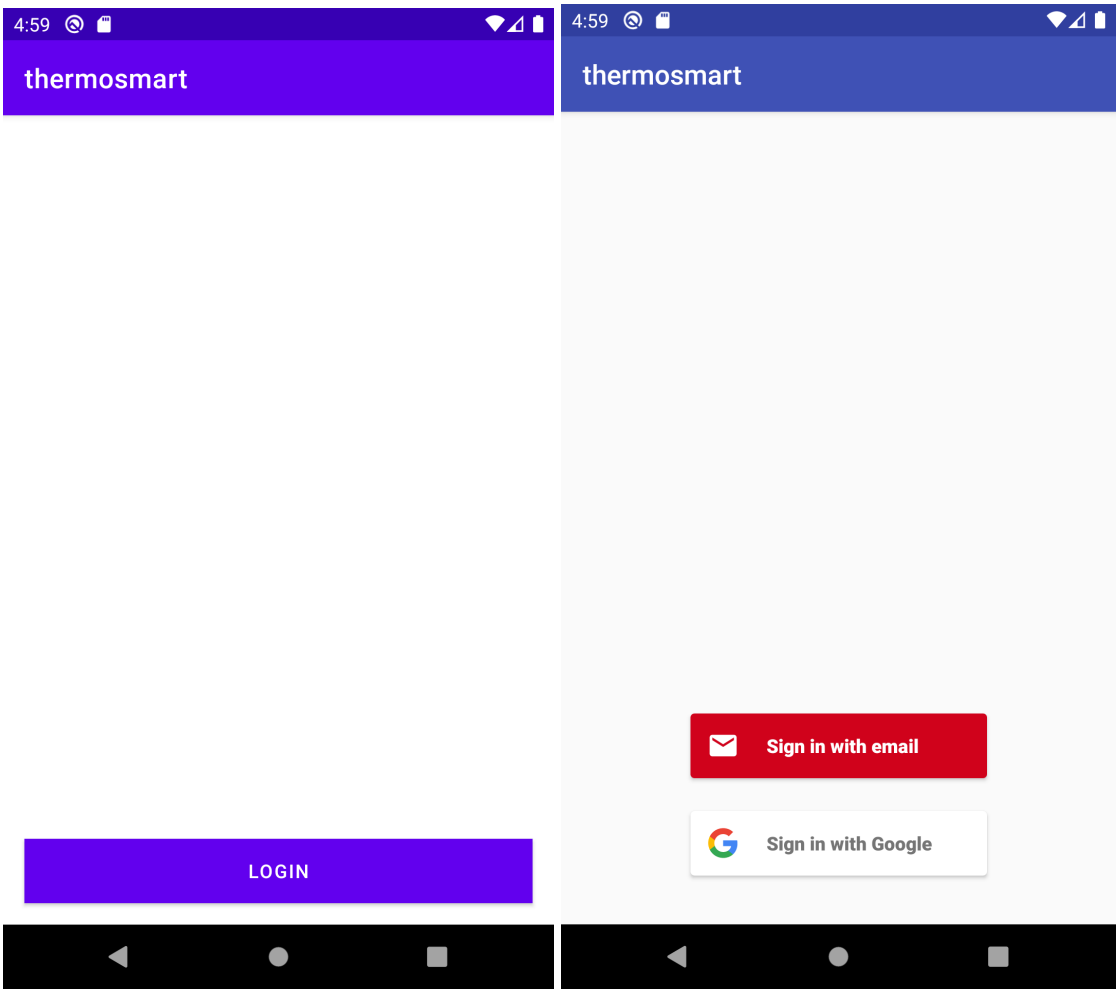
Thermosmart app

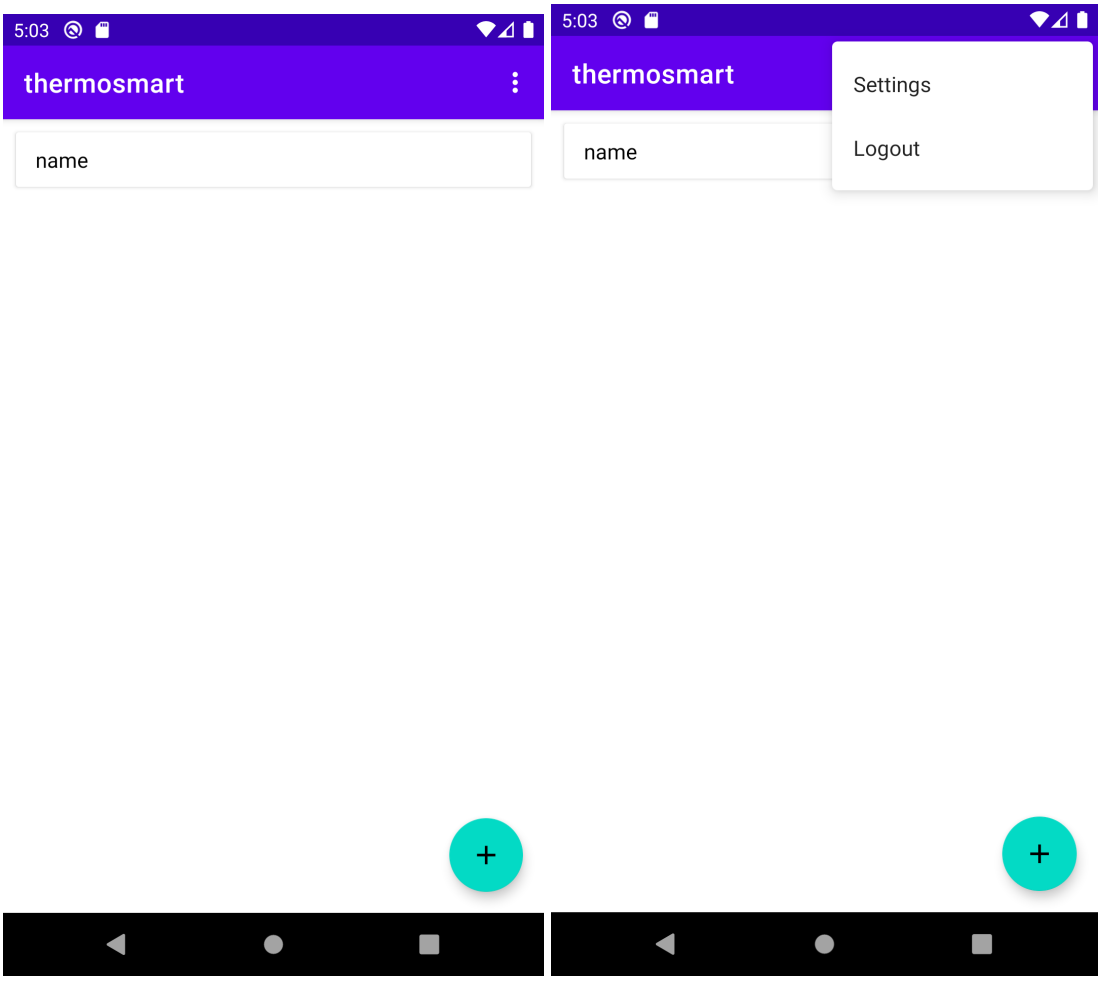
Android UI/UX Overview (not final style)

Application Layouts

- login activity (Login Activity)

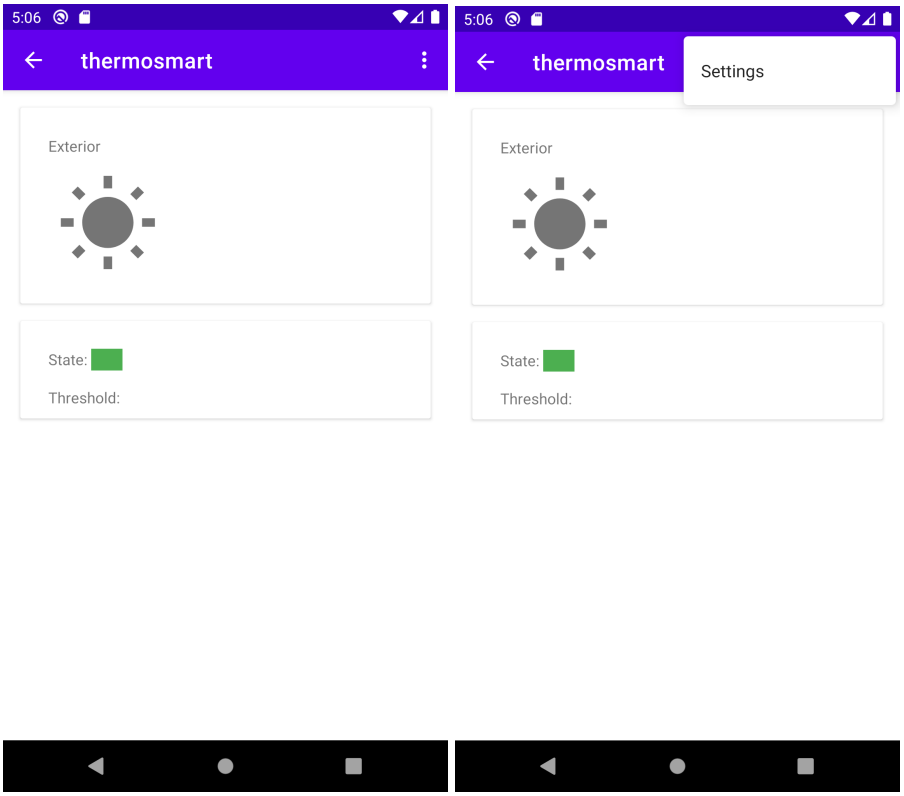


- thermostat list fragment (Main Activity)

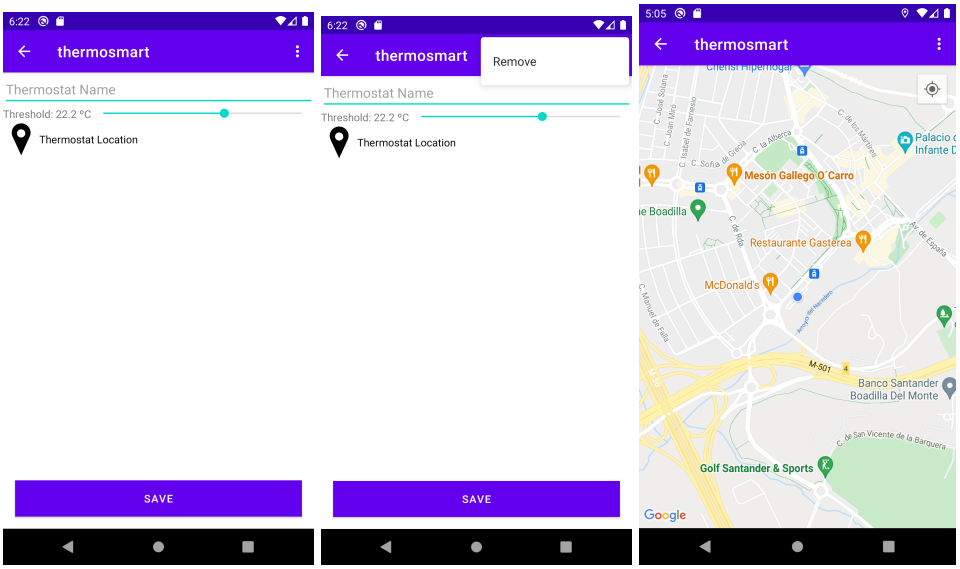


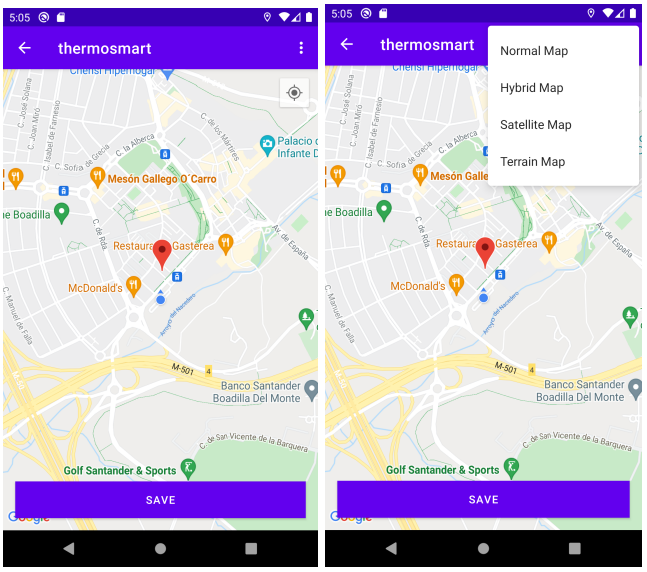
- thermostat save fragment (Main Activity)

- thermostat details fragment (Main Activity)

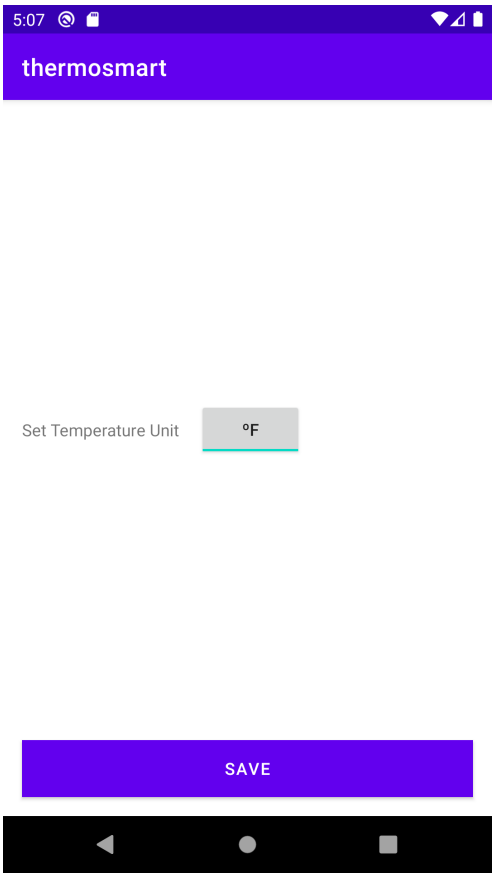


- thermostat config fragment (Main Activity)





- app configuration fragment (Main Activity)



Milestones

- login to the app with your user via email or google account using firebase authentication.
- add your home thermostats to the app. Insert an existent thermostat id in the database (for testing: devicetestuuid1) and start managing it.
- show your managed thermostats list and select it for details / configuration.
- configure your units preference ºC / ºF (app persistence data using android shared preferences interface)
- configure your home thermostats threshold temperature (user persistence data). Application will connect to a firebase real time database to upload the configuration of the managed thermostat.
- check the current home sensor temperature. Application will connect to a firebase real time database to retrieve the data of the managed thermostat.
- check the current home exterior temperature based on the thermostat location. Application will connect to https://openweathermap.org/api to retrieve the current weather information based on the thermostat location using Retrofit. The provided icon to the current weather will be shown in the details screen.
- receive notifications when the heater is activated or deactivated. A simulator is provided(https://thermosmart-b5382.web.app/) to change thermostat temperatures and trigger firebase functions to send Firebase Cloud Messages to registered devices.

RealTime Database data model