Deliverable 4

Chesm

Smart City

#### **Team Member**

Team Member Names	Signatures	Student ID
Project Leader: Thanh Phat Lam	Mal	N01335598
Hieu Dang Chu	HR	N01371619
Dung Ly	Pet 1	N01327929
Dinh Hoa Tran	Hose	N01354661

### **Github Repo**

https://github.com/nhoxrongvip/SmartCity

# **Participants**

Name	ID	Signature	Effort
Thanh Phat Lam	n01335598	lam	Complete Air quality fragment, show data to daily graph and report daily value on screen. Add Intro activity, get runtime permission in this activity and send data through SharePreference. Publish app to Play Store Documenting Effort: 25%
Dung Ly	n01327929	dung	Completed Garbage Bin Fragment (Add animation for the Garbage Bin load), and GarbageFragment, add Navigation Drawer for main activity, add new function for Register

			App to recommend Strong password for user, did the Test case with Junit test and Robolectric Test for The Application. Effort: 25%
Hieu Chu	n01371619	Hieu	Completed Snow level fragment. Snow level, temperature and humidity now update in real time using API json. Fill bar chart with data from snow level forecast in 3 hours. Update UI with a better interface and color. Update Setting fragment with UI and lock portrait. Helping document and ReadMe Effort 25%
Dinh Hoa Tran	n01354661	Tran	Completed Light City fragment. Get data from database, get value and check distance default set 20m for each light. Set the time the light off/on from 5pm-5am ( the light will auto). From (5am-5pm) the light only can off or on by manual button.  Completed activity Profile user  Completed activity change password  Completed activity forget password  Effort:25%

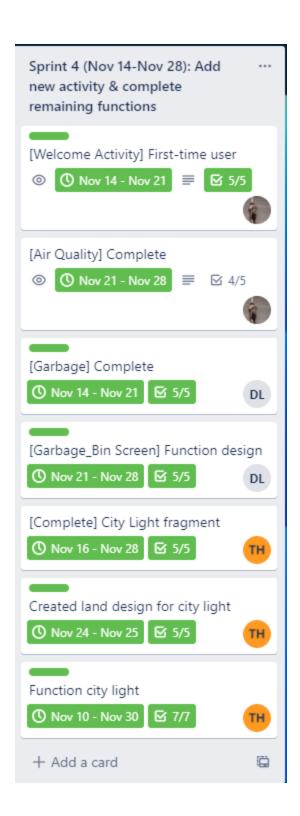
Account to log in

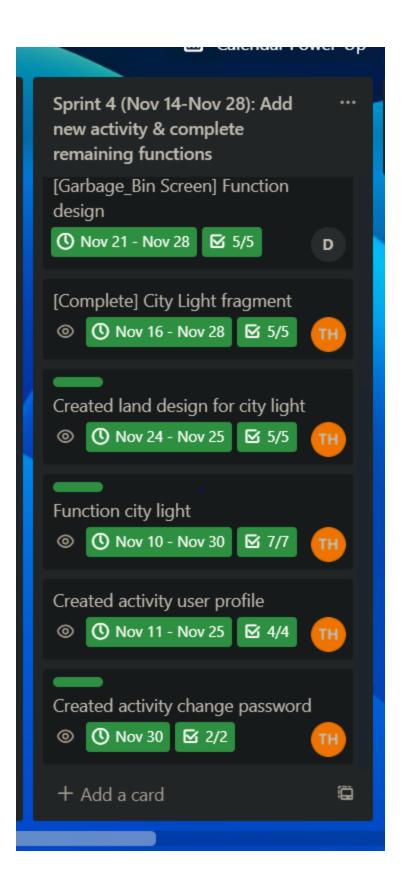
username: haki.sharifi@gmail.com

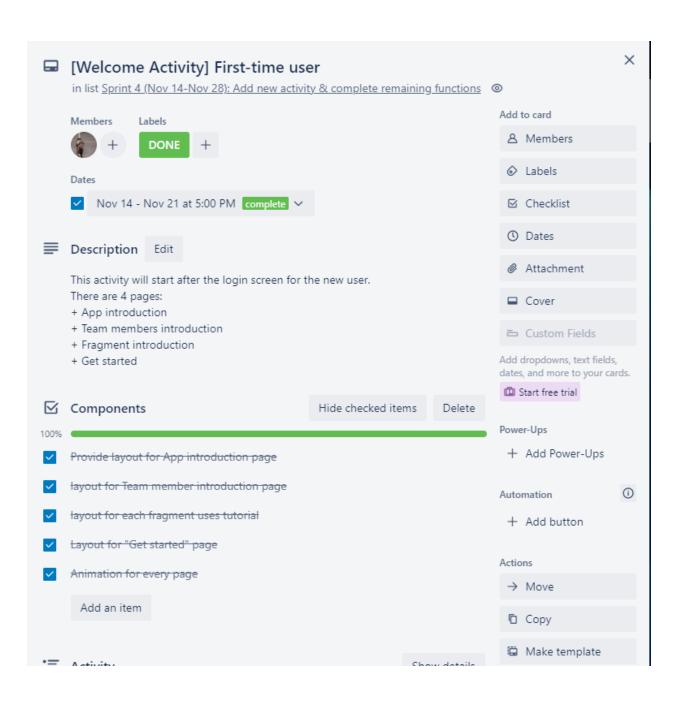
password: haki11

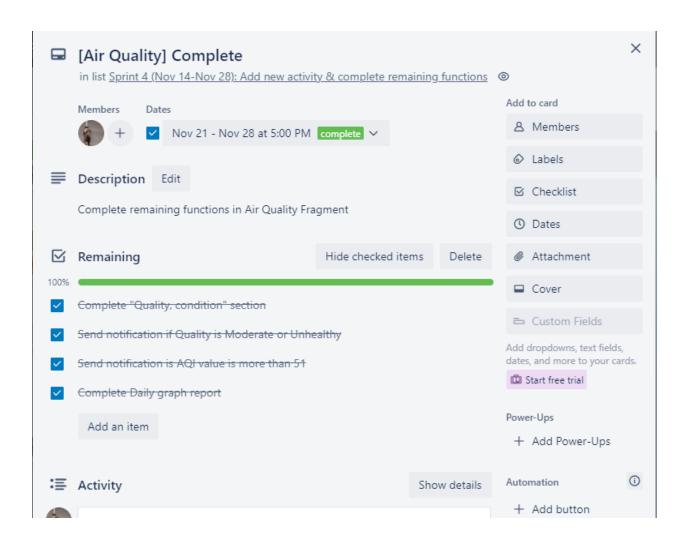
# Sprint 4

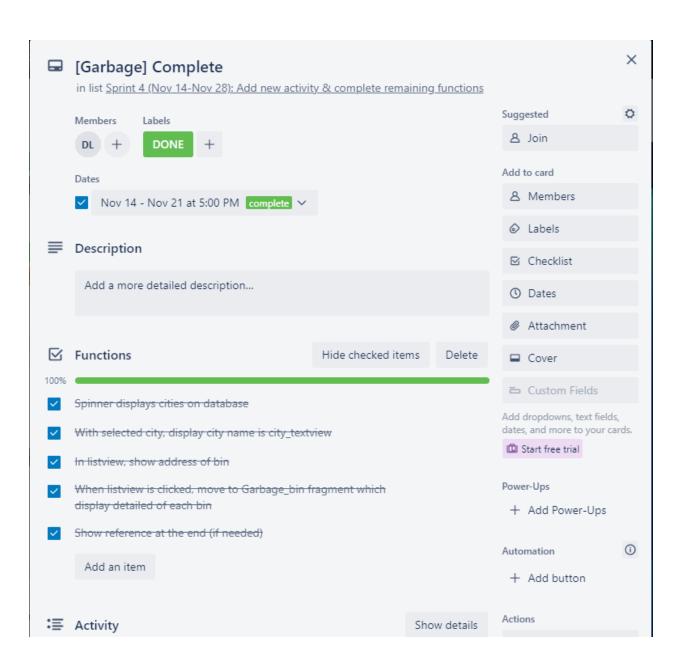
Goal: Complete all the functions and design

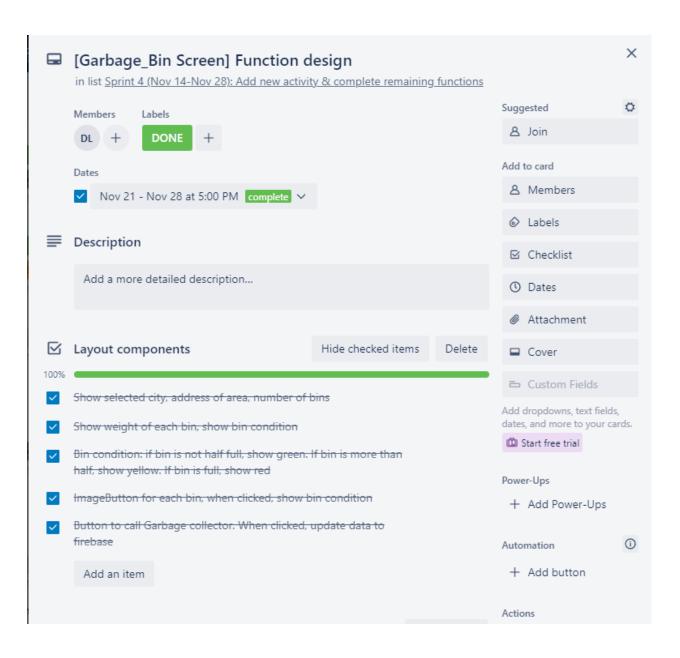


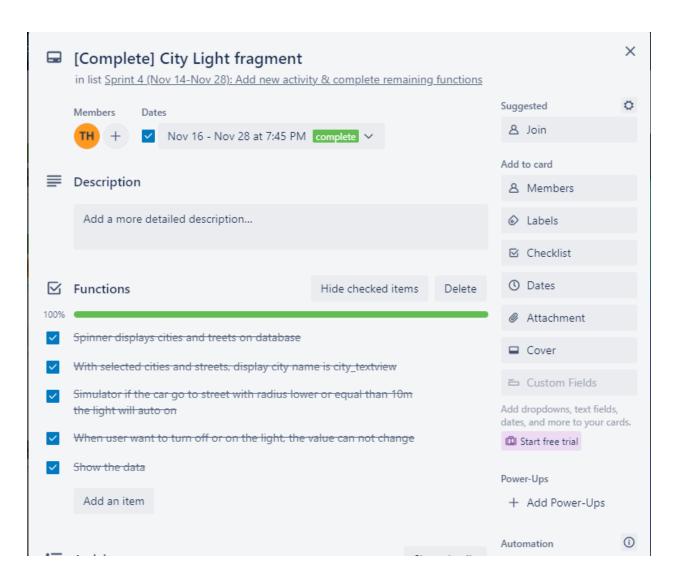


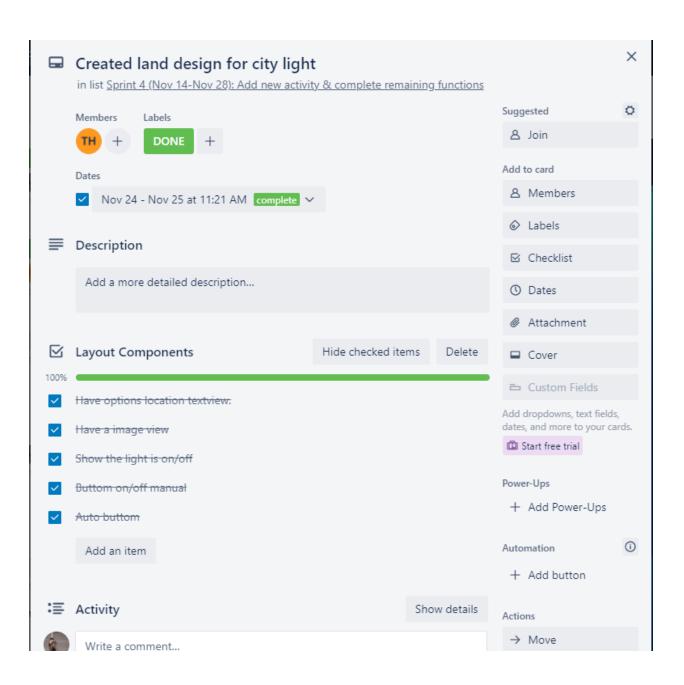


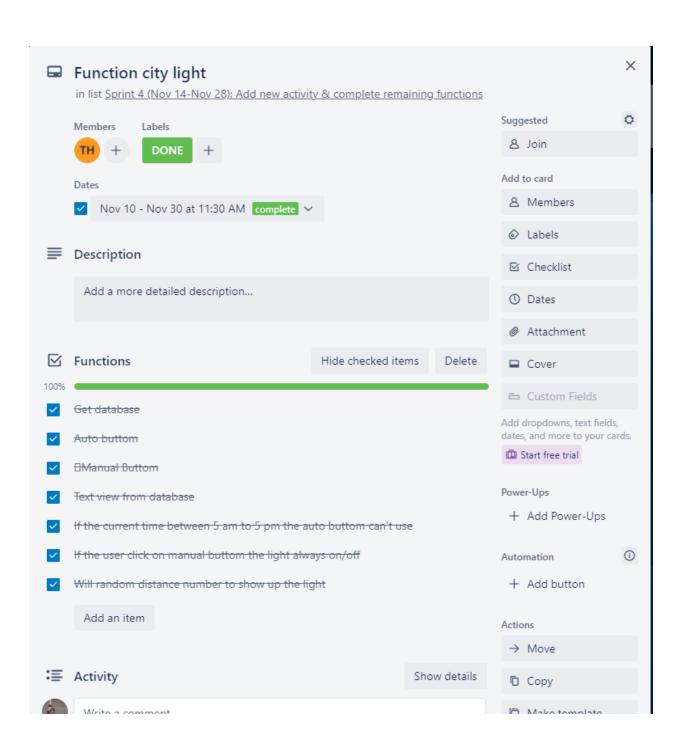


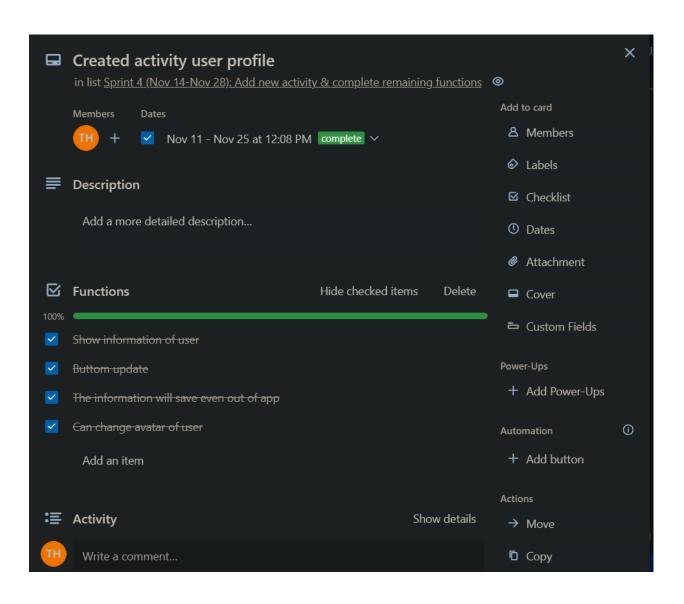


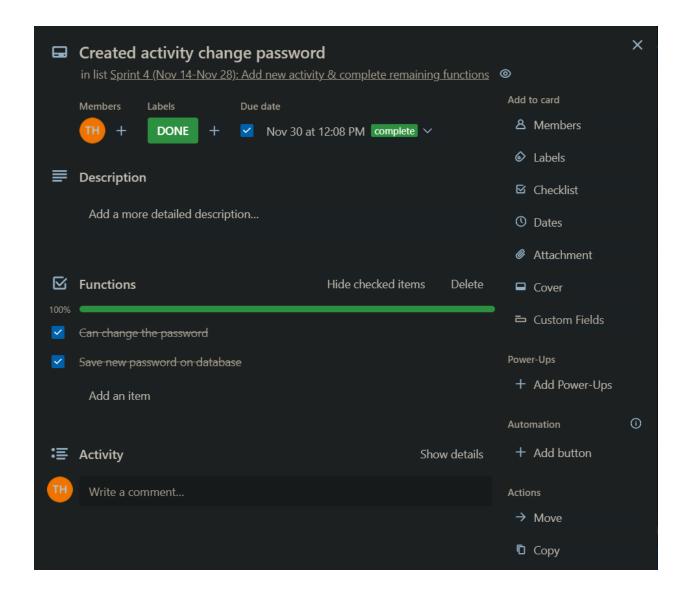










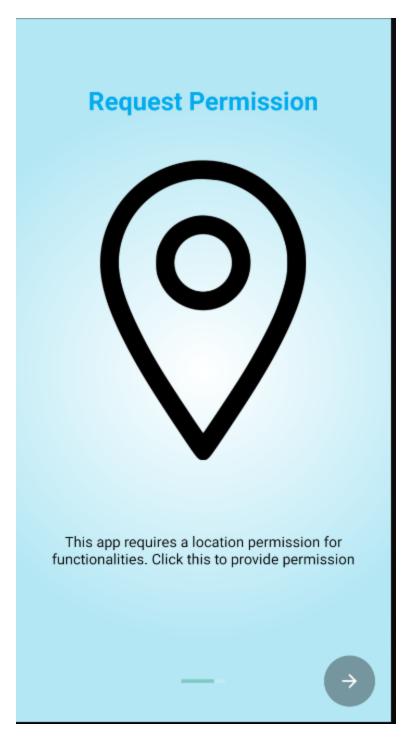


# Function for offline & airplane mode:

This can't be done because everything needs internet, so when it's offline, you cannot log in.

## How to validate runtime permission

In the app intro activity, we need location permission to run the fragment so it must be allowed in this activity. I recommend deleting and reinstalling the app so you can test it.

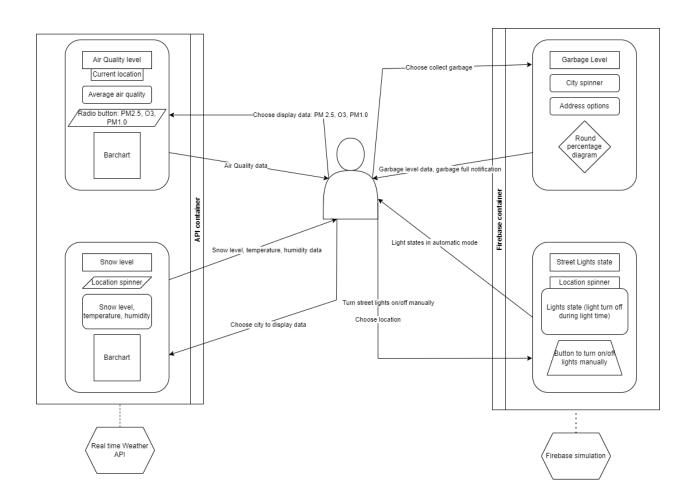


Once the permission is provided, it'll be sent to Main Activity. Because we dont have much time, we only let them allow in the Intro Activity and it'll be stored in SharedPreference (which is not a sufficient way). What happens if you deny? Don't worry, you won't be able to access further if permission is not allowed.

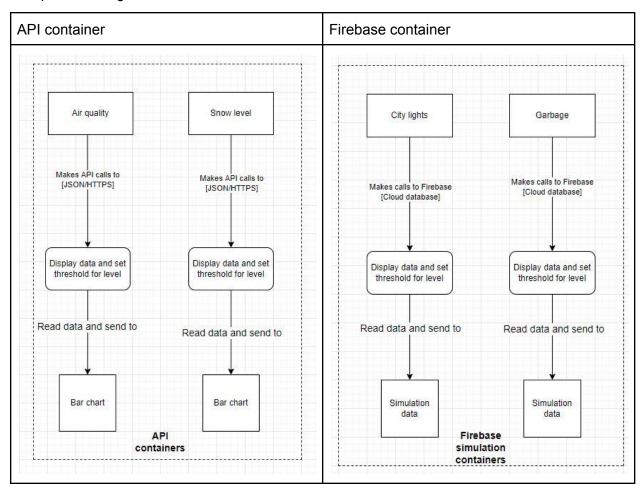
After location permission is allowed, the current long lat will be passed to Geocoder to find the city name. You'll see data of your location after logging in to the app.

### C4

#### Container diagram



#### Components diagram



# **Project Review Meeting**

This is a survey that Project Leader created for team member reviews about the project.

### Project Review Meeting





Everyone attended the weekly meeting.

About Quality assurance, the app does not work as we want because it still contains some bugs in functions & layout. If we have more time, this project will be improved.

### **Technical Debt**

In a big project like this, technical debt is unavoidable. Therefore, we have a meeting weekly and do a code review and refactoring so we can reduce it.

Two areas that we refactoring:

Code debt: since putting everything in one place makes a big mess, we chunk code into smaller pieces so that code management will be easier.

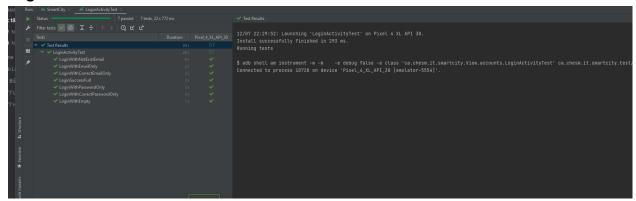
### App publish

Currently app is in review so we cannot download and do review.



# **Testing**

#### Login test



### Register test

