



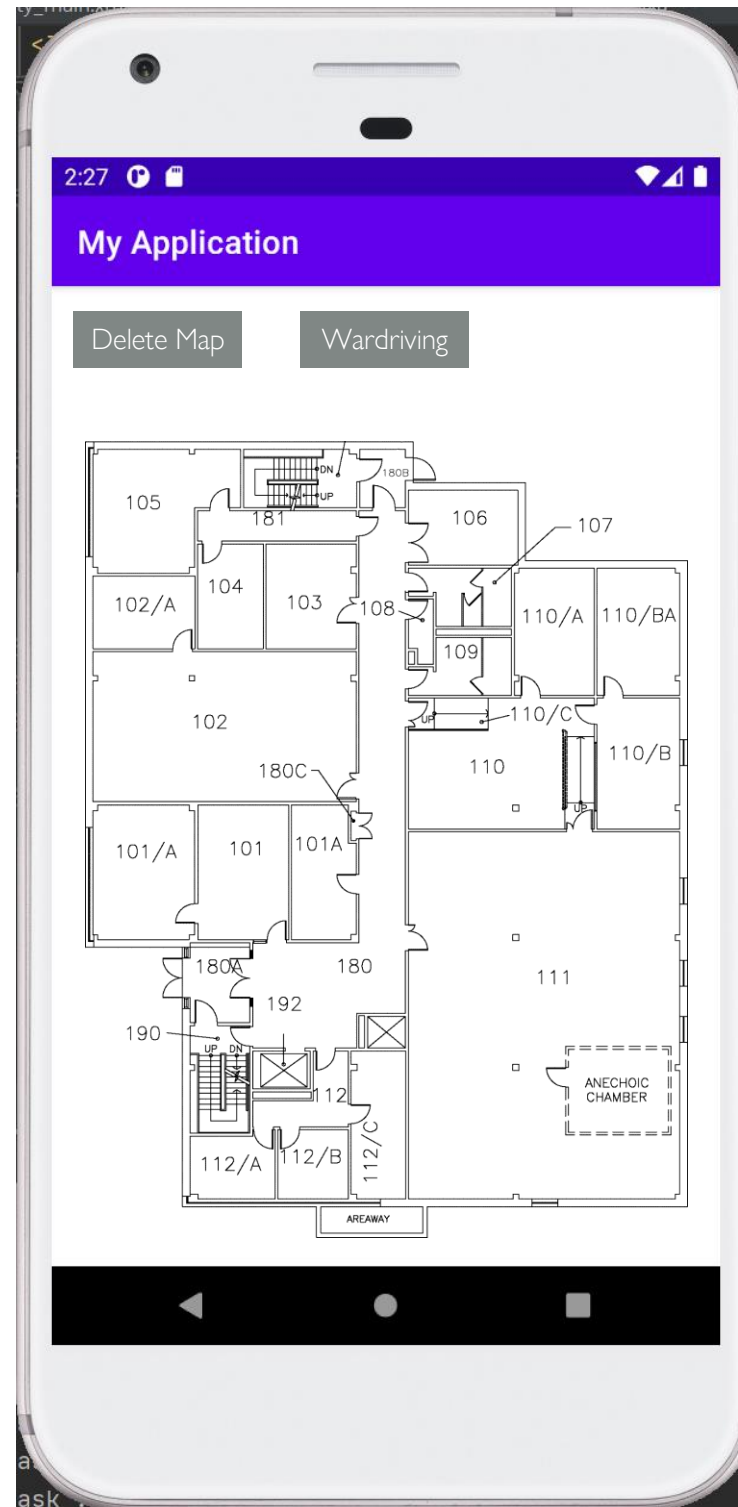
CSE 465 Mobile Computing Assignment & Midterm exam



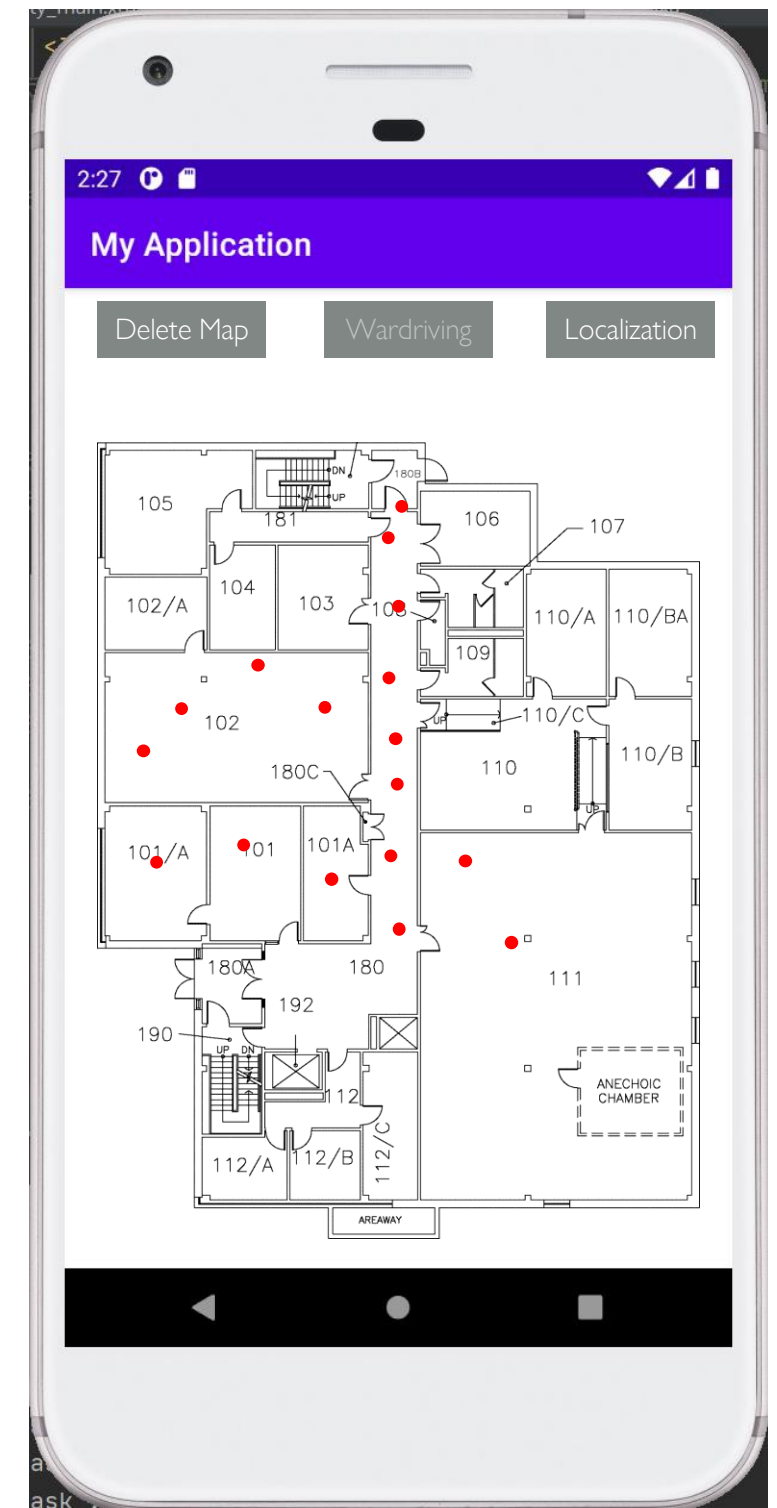
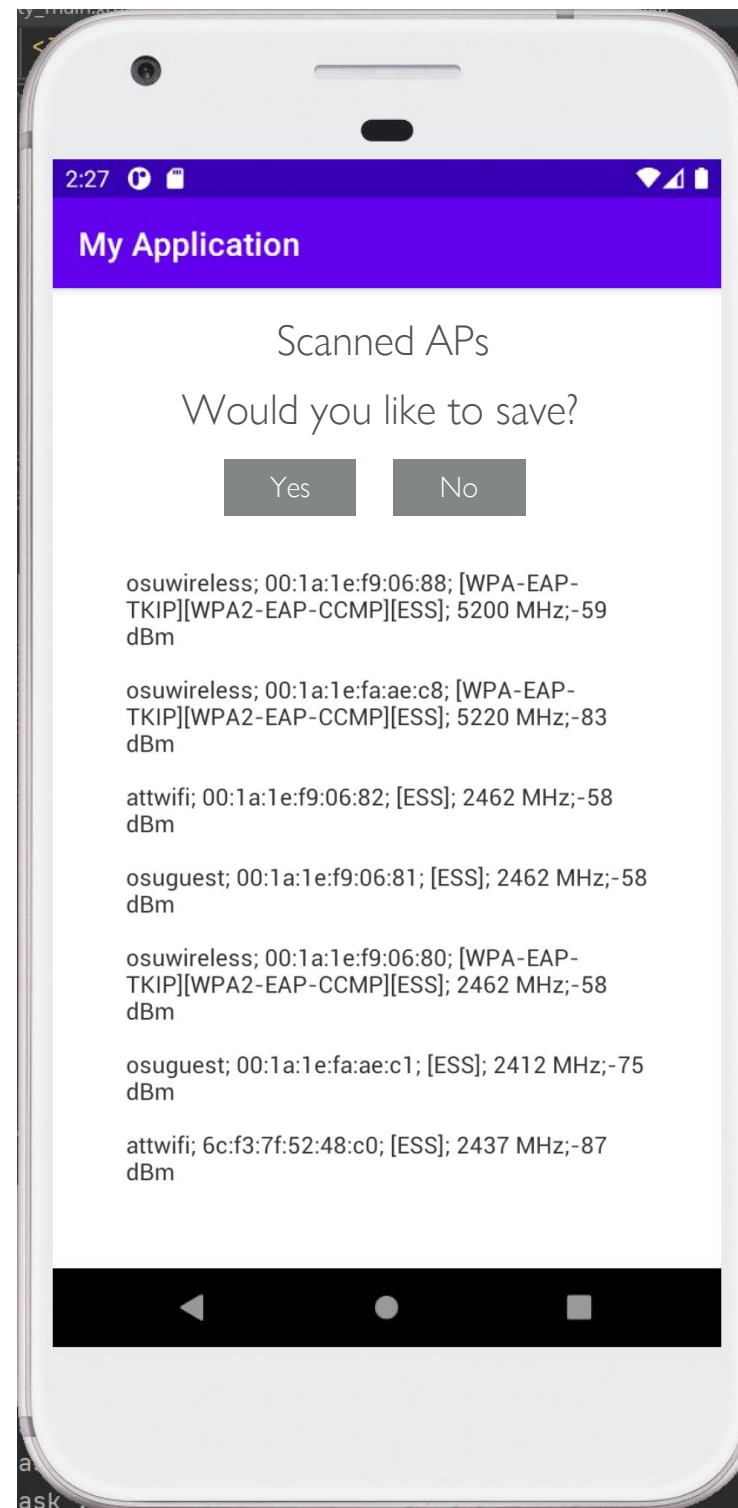
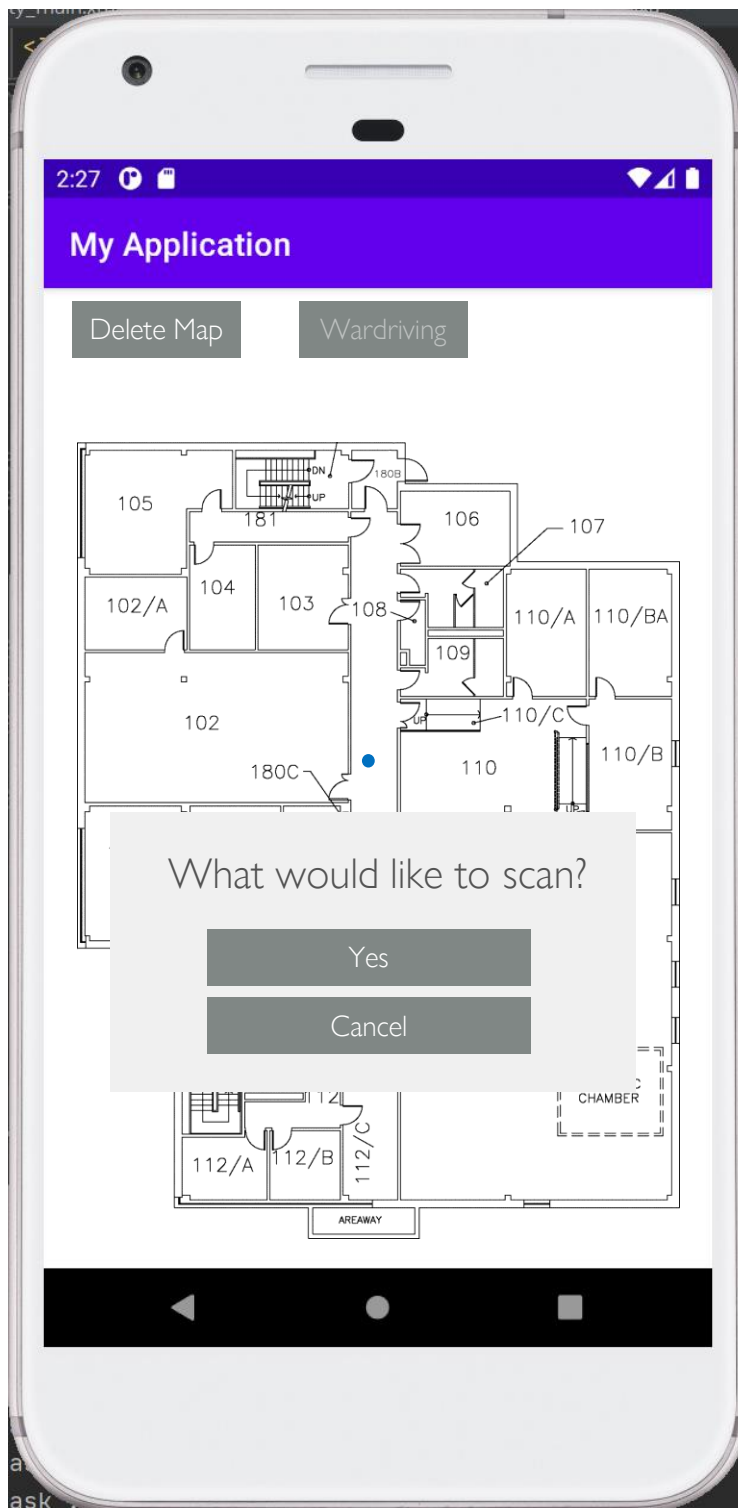
Assignment: overview

- ◉ Implement a WiFi-based localization app
- ◉ Languages: Java/Kotlin in Android and Swift in iOS
- ◉ Functions
 - Upload/delete a floor map from photo album
 - Wardriving mode: choose a position on the map, scan APs, save the collected information
 - Real-time localization mode: scan APs and find the fittest position and show the position on the map

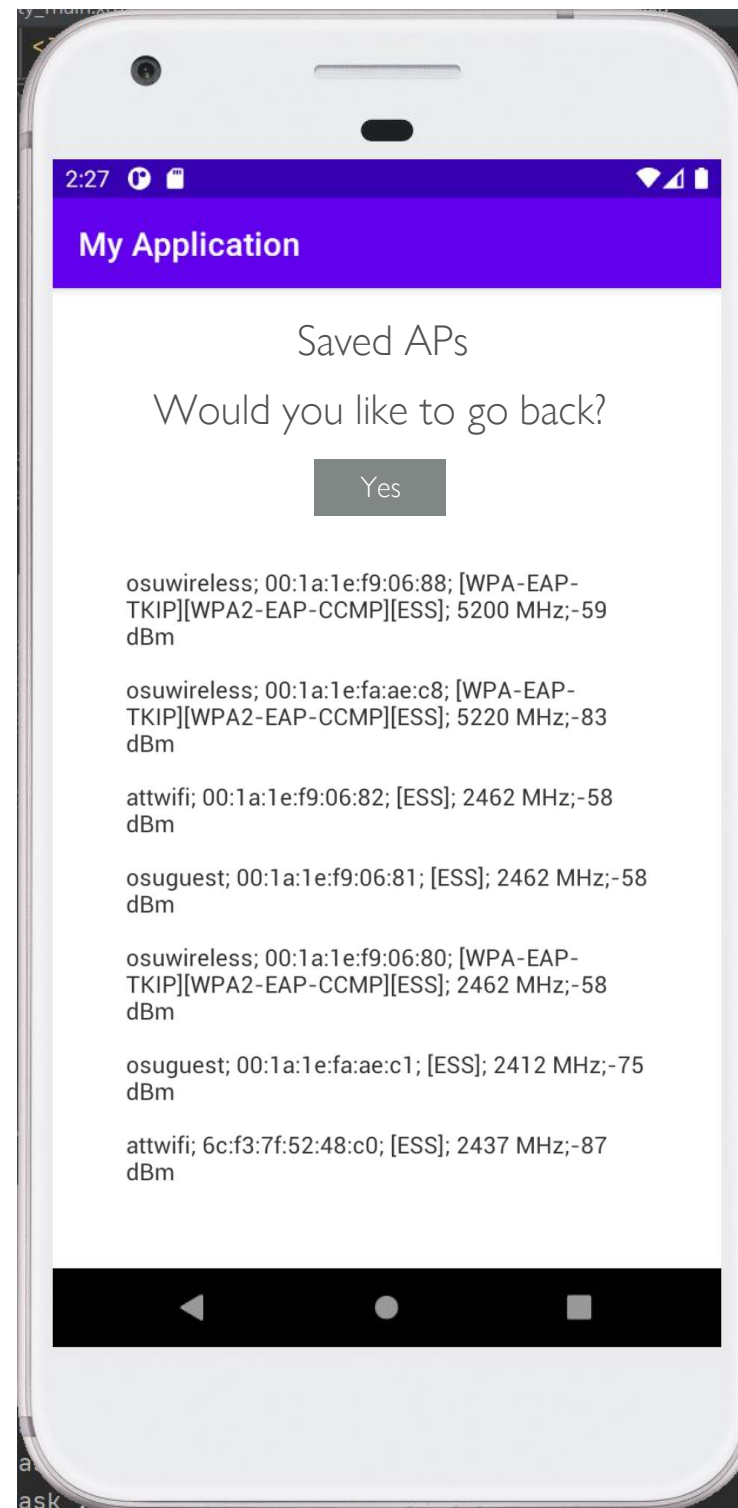
Assignment: upload/delete a floor map



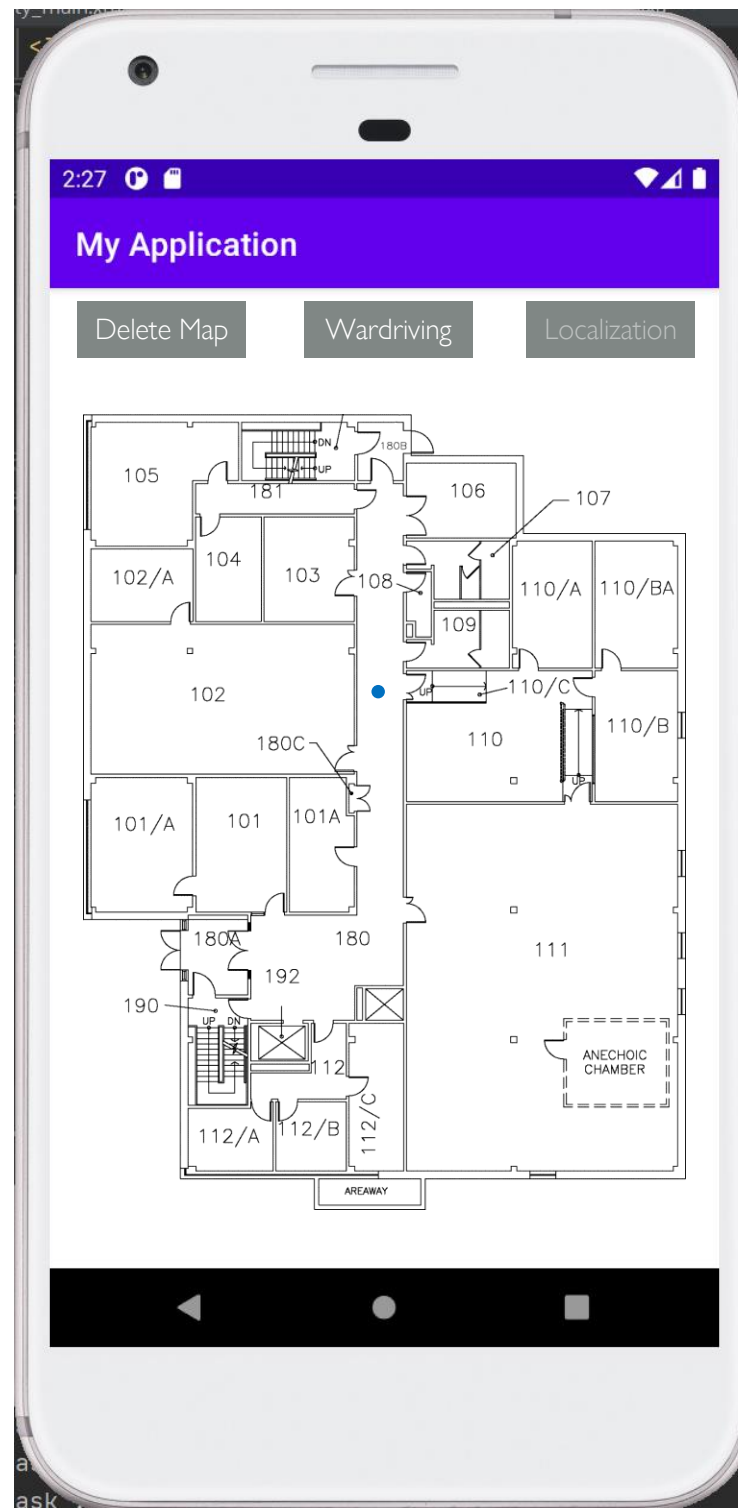
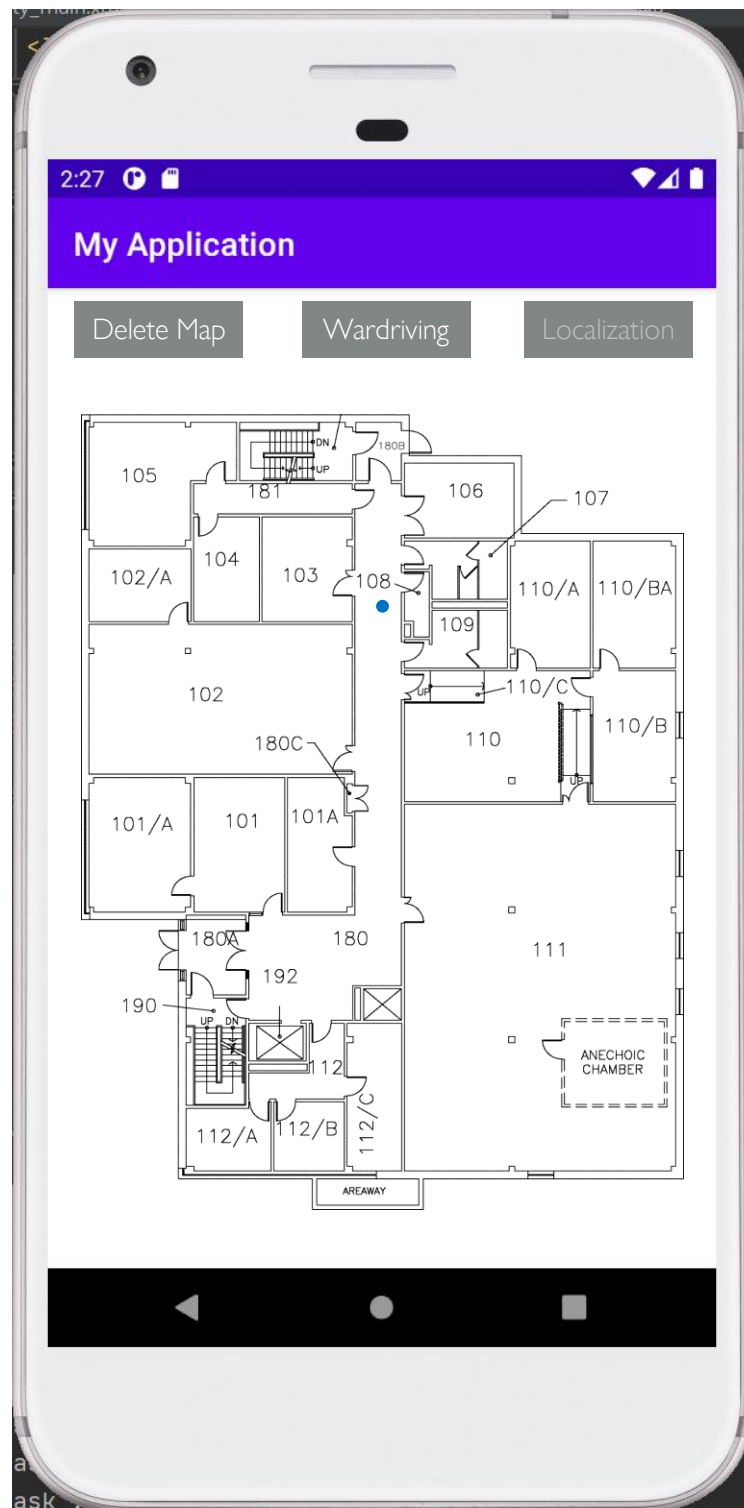
Assignment: wardriving mode



Assignment: wardriving mode



Assignment: real-time localization mode



Assignment: submission

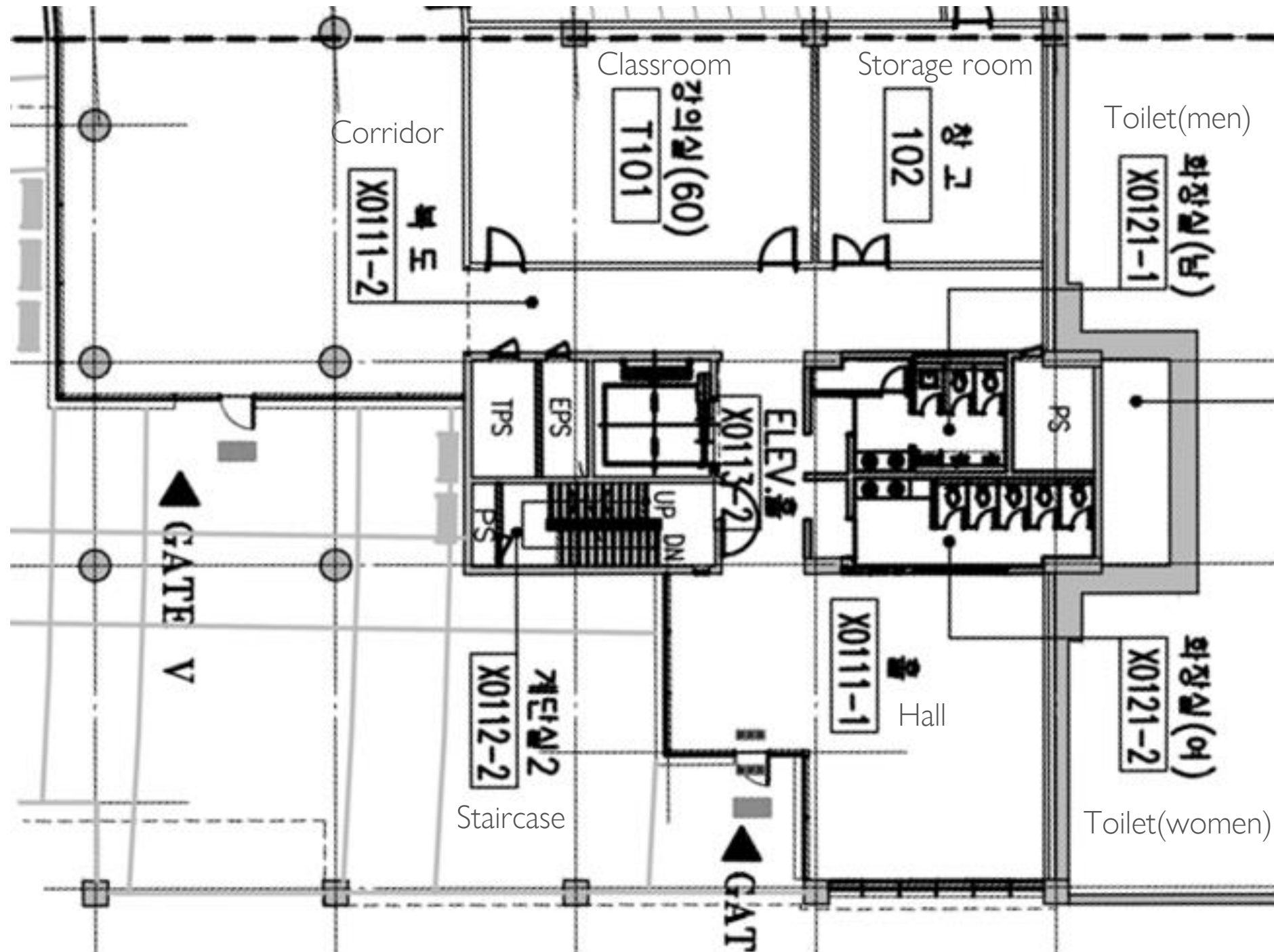
- Deadline: May 12th (midnight)
- By Blackboard
- Submit a report(development environment, implementation details, experiment result), source code, APK file (for only Android), experiment video (captured screen)
- 20% deduction per day if you submit late

Assignment: some details

- You can do the experiment on building 106 1st and 2nd floors
- You should provide the details about your algorithm, and discuss it in the report
- You don't need to do too much of wardriving. Showing it works well over some areas is enough

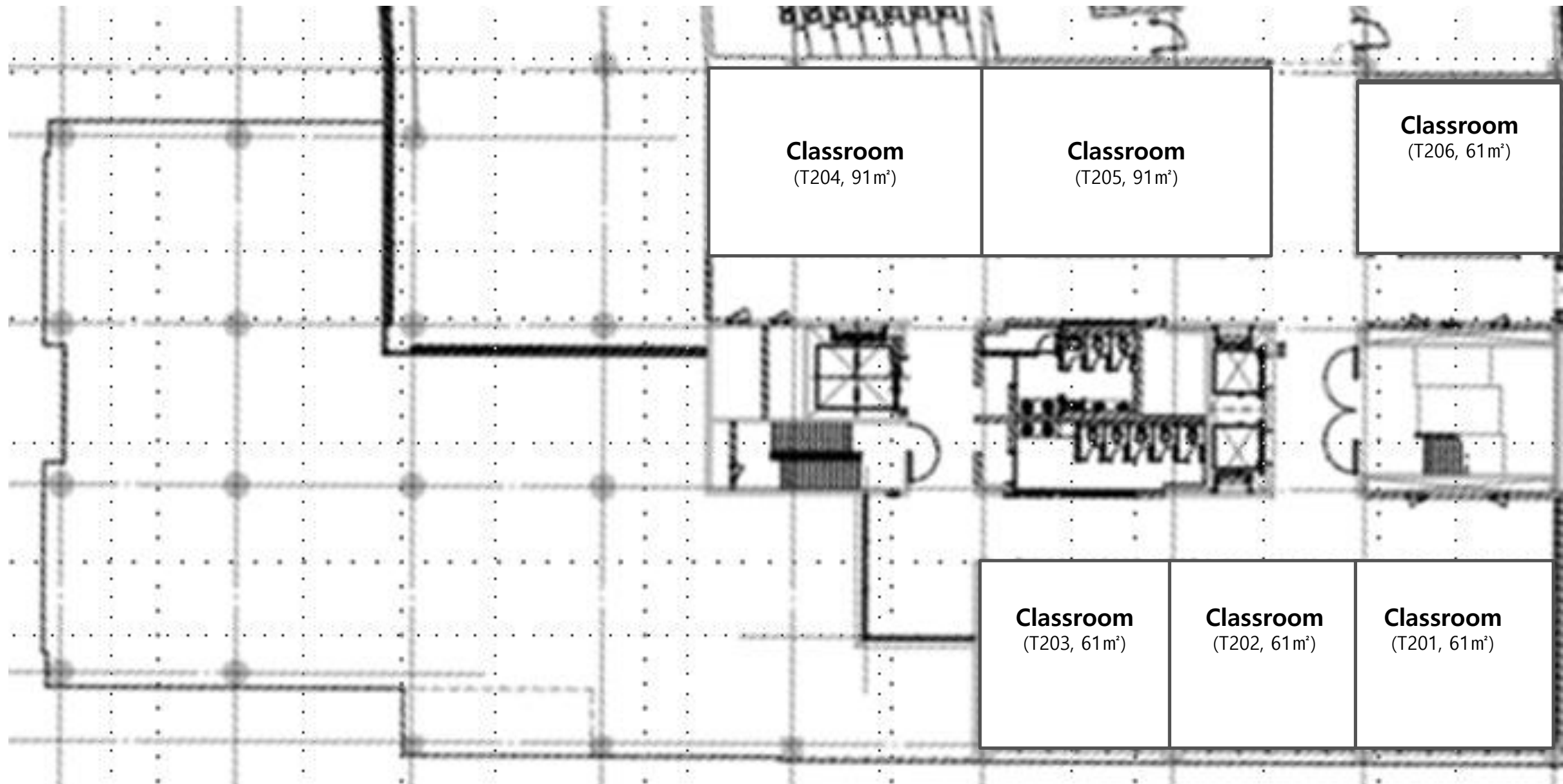
Assignment: floor map

◉ Building 106 1st floor



Assignment: floor map

◉ Building 106 2nd floor



Midterm exam

- ◉ Date : Apr 19th (Wed)
- ◉ Time : 14:30-15:45
- ◉ Coverage :
 - 1. Introduction ~ 6. Mobile Cloud Computing
 - Android Programming