Project 3 Proposal (Dec. 3rd)

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1. Goal of my project 3

Don't forget mobile attendance.
My goal is making an alarm that runs at exact lecture time and class location.
There are many cases who did not check attendance with UNIST mobile attendance application. It brings a lot of stress to all of us. I want to reduce this situation with project3.

2. Related work (what is the most similar work that already exists in the literature?)

- Alarm application: it can set day and time.
- Google Calendar: it pops up schedule and alarm at the set time and day.

3. Contributions of this work (what is different from existing similar work?)

This work runs at the background of a mobile phone but, it read the location at the setted time. Which work reduce the effort to skip or delete schedule if you are not in the lecture room. For example, Let's assume I made an alarm at the start of the lecture to check mobile attendance. If there is a cancelation of a lecture then may I delete the alarm setting or suffering unexpected alarm. This work prevents this kind of situation by reading time and location both.

4. System design / Implementation plan (what will be implemented?)

To reduce battery consumption, this application will check time every 1 min in background.
If the time reached the set time then it read location by wifi-scanning and Bluetooth-scanning. The scanning required some energy but it only read once at the set time.
If the location data is the same with stored data then the application will run UNIST mobile attendance application and alarming same time.

The location data will be crawled by manually.

5. Evaluation method (how will it be demonstrated?)

- Work in background well
- Alarming exact position and time: It has to catch am I positioning right place?
                                    : It alarms the exact time I set?
- Automatically run mobile attendance application.