Empty Room Finder Beta Document

김남웅, 김재범, 박로빈, 박승수, 박지호, 양태성

**1. Test Report**

Please check the included Test Report Document for evaluations.

**2. Version Control History**

0.0.1

Basic Android Layout Specification, Tab Placement. Timetable data crawler (via Python) implemented.

0.0.2

Activity for Timetable edit included.

0.0.3

Activity for Empty Room Search included.

0.1.1

Basic functions for Timetable view, buttons and other interfaces. Spinner (Dropdown selection menus) implemented for category search updated.

0.1.2

GridView implemented. Listeners set for editing timetable. Spinner menu, searching database for user timetable methods established.

0.1.3

Notice/warnings for several functions; recommendation, edit timetable.

0.1.4

Internal DBMS establishment. Testing for individual classes complete.

0.1.5

Interaction between Android and DBMS. Final check between Beta release.

1.0.0

Beta release.

**3. Bug Tracking Report**

3.1 Data Type Format

Each data type of ‘day’, ‘start\_time’, ‘end\_time’ in the DB and Android.selectItem were different and this consequently caused several errors while combining the codes

* Equalization of formats by changing type of selected item.
* Data type in android: String to integer
* Data type in DB: Integer

3.2 Random Index

Randomized index caused Python crawler to find lecture information of specific university (Chung-ang University).

* University index called first.
* Collect lecture information based on university.

3.3 Unique Major Information

Some major (college of medicine) does not yield specific lecture information.

* Unsolved.

**4. Design Changes**

4.1 Timetable Display Interface

Change: Buttons exists for input/edit/delete → Buttons exist for edit/delete all, move to secondary interface for editing timetable in detail.

4.2 Category Search

Change: Two categories specified → Specification extended to include day, building, floor, and time.

Rationale: Recommendation search sufficient for optimized search. To ensure users’ specific needs of rooms.

4.3 Result Show Interface

Change: At least five results → As much as possible

Rationale: No reason to limit results. Some specified search may not show any result at all (impractical). Recommendation will work to find at least one empty room.

4.4 Update Methods

Change: Internal Crawler → Information Collection Methods Succession

Rationale: Internal crawler isn’t used frequently, and hard to implement. Succeeding methods of updates to successors of application is more efficient to keep up with data source change/update.

**5. Remarks**

Reference documents included.