

Idea proposal & Requirements engineering

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Schedule Application, Functional issues and non functional issues list.

1 Application summary

Target domain Application: The end of the project will be an application.

Productivity: It is supposed to enhance efficiency of scheduling projects and homeworks.

Education The demographic will be students, professor, and all the teaching staff of KAIST University.

Expected users Students and faculty at KAIST

Description Our application is specifically for KAIST students, and also it is exclusively made for managing projects and homeworks for individuals. Although it will be designed to first help students, teacher might also use it.

A website doing this already exist : <https://otl.kaist.ac.kr/timetable/>, but we want to make a mobile application out of it, so that any KAIST students or professor can change its schedule anywhere, anytime. Also, it is only for scheduling classes, so we want to make an application that can be used for managing individual schedules such as projects and homeworks. This is the originality of our project.

2 Functional issues list

- Provide a graphical schedule
- Provide 4 categories of schedule, each one for projects, homeworks, classes and individual schedules.
- Provide a function to search for schedules.

- People can make schedules, and other people can add it to their own schedules. If the maker modifies it, then the schedule changes automatically for others who added the schedule.
- People can share some events, that will be added on the schedule application, which anyone included in the schedule can change.
- If the schedule is changed by someone else, there is a notification.
- When schedules collide, notify the user that multiple events are scheduled for same time.
- The application will notify the user before an upcoming event. This functionality can be disabled by the user
- Be able to modify the schedule :
 - Add your own events
 - Change dates of your events

3 Non functional issues list

- Accessibility : Should be offline, connection required to fetch the data
- Availability : 24/7
- Backup : All data are stored on the smartphone. Only automatically fetched data are coming from a distant database.
- Data retention : Data used only for the purpose of this application
- Fault tolerance: System will send notifications before an event. But these notifications will be sent with respect to the time and date of user's phone, not with respect to the time and date of the central server. Since almost all smartphones continuously synchronize their time and date info from the web, this should not be a problem.
- Privacy : Individual schedules can't be changed or seen by other people unless it is marked as shared. The schedules for homeworks and projects, if made by faculty members, can be seen by class members. But no changes can be made.
- Safety : any mistakes made can be modified.
- Deployment environment : Playstore
- Platform : Android Devices

- Maintainability/quality : any faults or system errors should be noticed and repaired quickly.
- Efficiency : Application should not be heavy.
- Usability/Readability : the abilities of the application should be clear and well understood in the UI.
- Interoperability : Application should run in the background, in order to fetch data
- Open Source : source code available