

KUPID Notifier

HCI Assignment #2 Part1

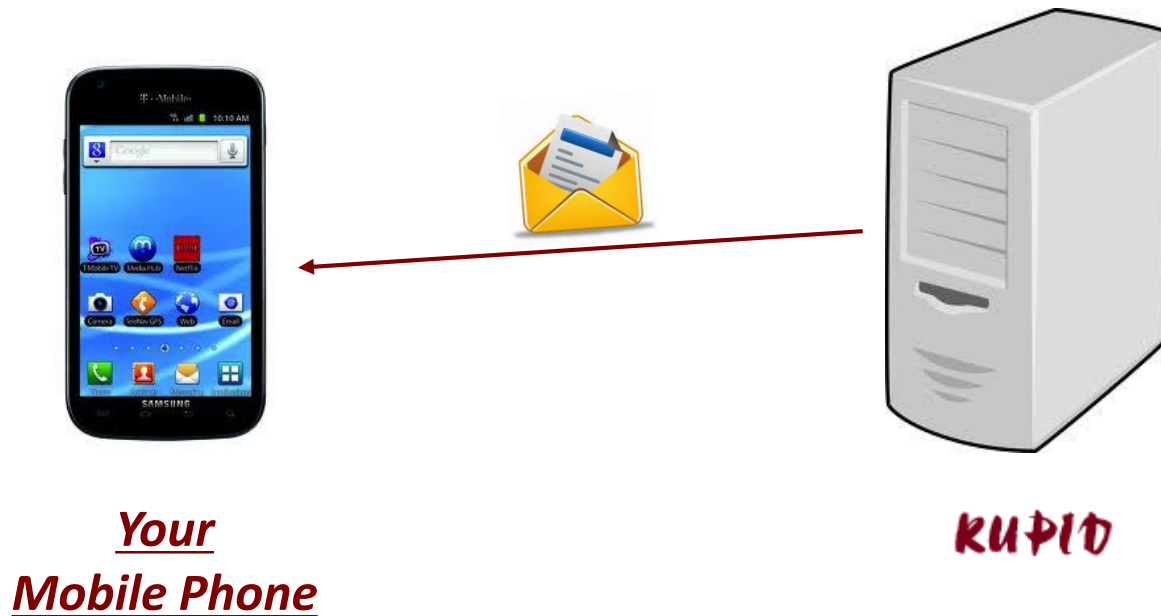
Jung-Haeng Lee

Sung-Ik Cho

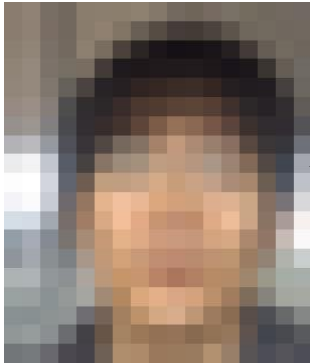
Jae-Sung Ryu

What is the **KUPID** Notifier?

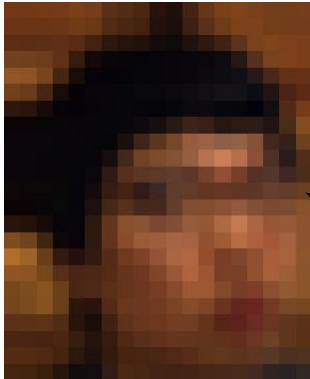
Mobile app which notifies *new assignment* or *notice* when it posted on KUPID!



Motivation



I missed assignment notice on ECU before and It was a big shit! I don't want to get **F grade** on the course.



I missed locker application period once, I have brought all the textbook everyday on full semester.

Requirements

- Requirement Analysis
 - Functional-Task Requirements
 - Functional Requirements
 - Non-Functional Requirements
 - Others
- User Analysis
 - Investigate the basic characteristics of our target
 - Investigate any other particular needs

Functional Task Requirements

- User can see list of course in current semester
- User can see new information about the course (such as notices and assignments)
- Show notice or event lists that are posted on KUPID
- Notify new information when it is posted on KUPID even user did not open the application
- User can add assignment information on his/her own system calendar

Functional UI Requirements

- Load information on background
 - Show to information as fast as possible
- Low battery usage even processing background works for notification
- High level of security
 - Communication between server and client should be transfer safely with encryption method
 - Never stores password on server
 - Store account information in client safely with certain encryption method
 - Automatically logout on password changes of KUPID

Functional UI Requirements

- High level of security
 - Not only functionally secure but good UI to user can think process of application is secure also
 - e.g. Lock picture on password typing and so on

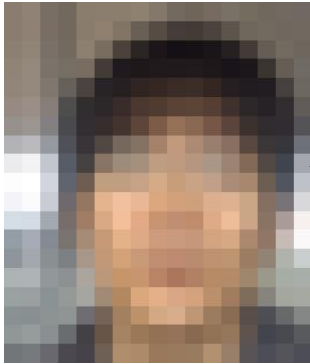
Non-Functional UI Requirements

- Should follow design guideline of android system
- Structure of the information should be best for perspective of cognitive
- Easy to recognize new information
 - Special background on new information for user to notice unread new information
 - Emphasize on important information

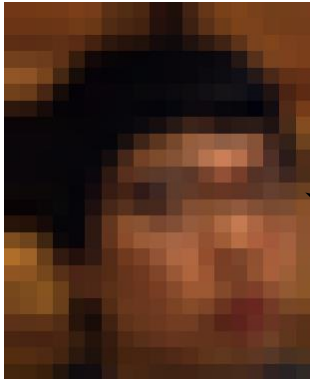
Other Requirements

- Target Platform: Android
- Target User: Students of Korea University

User Analysis



It is very hard to get information on KUPID desktop website. Event mobile site need many steps.



I don't want to type KUPID password on the application. This application is untrusted.

Basic characteristics of our target

- Student of Korea University
 - They log into KUPID very often (1~4 times a week)
 - They think visiting KUPID via mobile is uncomfortable
 - They experienced missing important info on KUPID
- Experienced on mobile phone
 - They are familiar with common mobile application
 - They know why background processing is awful to mobile environment battery life
 - They know typing password on 3rd party application is dangerous for security

Any Other particular Needs

- Some of users' needs notice notification not only ECU notification
- Concern about security
 - They know typing password on 3rd party application is dangerous for security
 - e.g. OAuth is now widely spread on many mobile service
- Concern about battery life
 - Our application works on background for the notification, and our users know it is not good for battery life

Summary

- Requirement Analysis
 - Functional-Task Requirements
 - Functional Requirements
 - Non-Functional Requirements
 - Others
- User Analysis
 - Investigate the basic characteristics of our target
 - Investigate any other particular needs

Lesson Learned

- User analysis is important
 - User analysis sometime base of deciding requirement
 - Result of user analysis influence to requirement analysis
- Sometimes, user analysis can be distorted
 - Analyzing small number of user can be dangerous
 - e.g. Function that one user don't think it is not important but other user could think that it is very important for the application
 - We should analyze many number of users with some sort of well defined analyzing method

Lesson Learned (User Analysis)

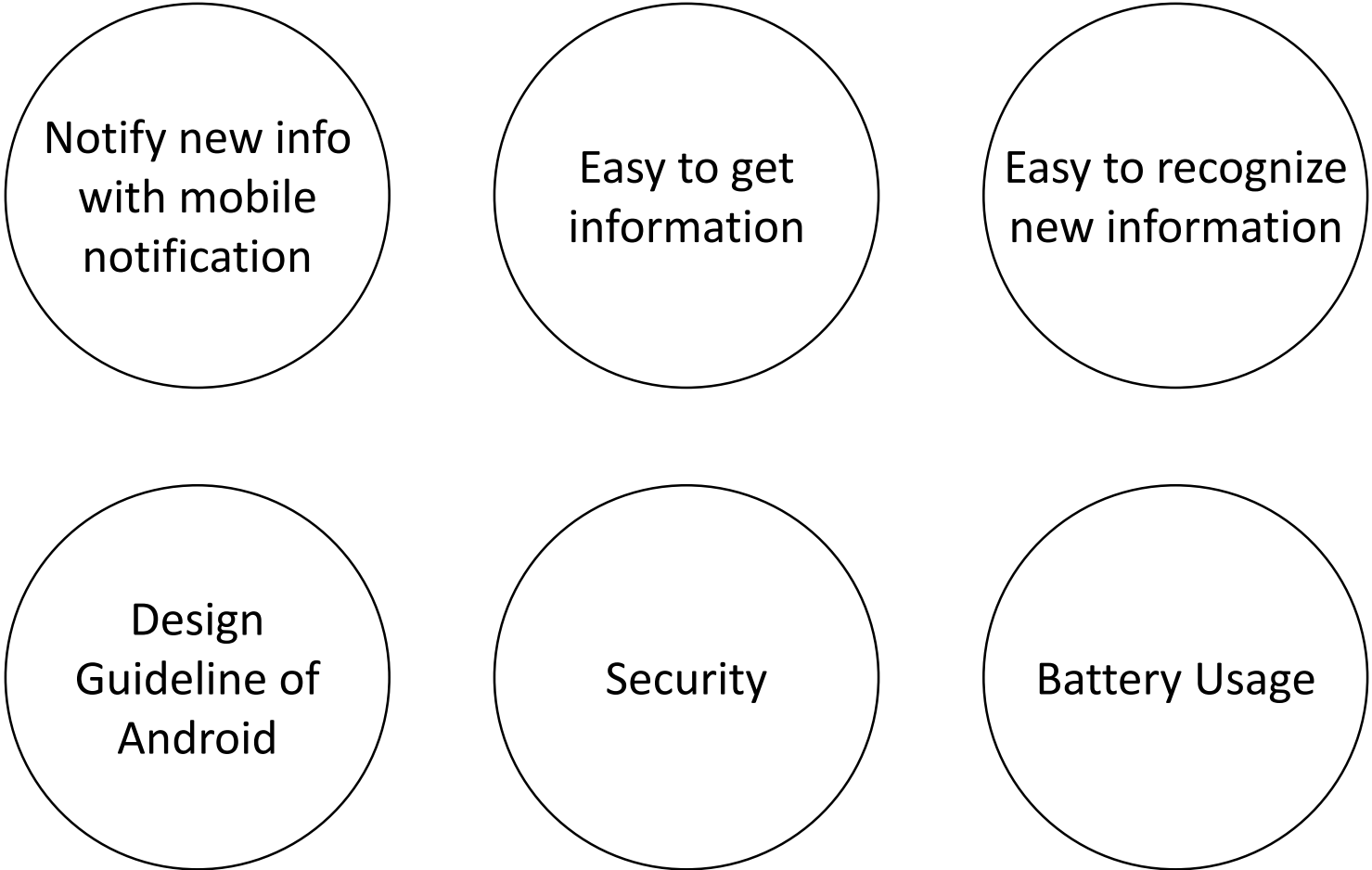


KUPID via mobile
is uncomfortable

Missing important
info on KUPID

Experienced
on mobile phone

Lesson Learned (Requirements)



Notify new info
with mobile
notification

Easy to get
information

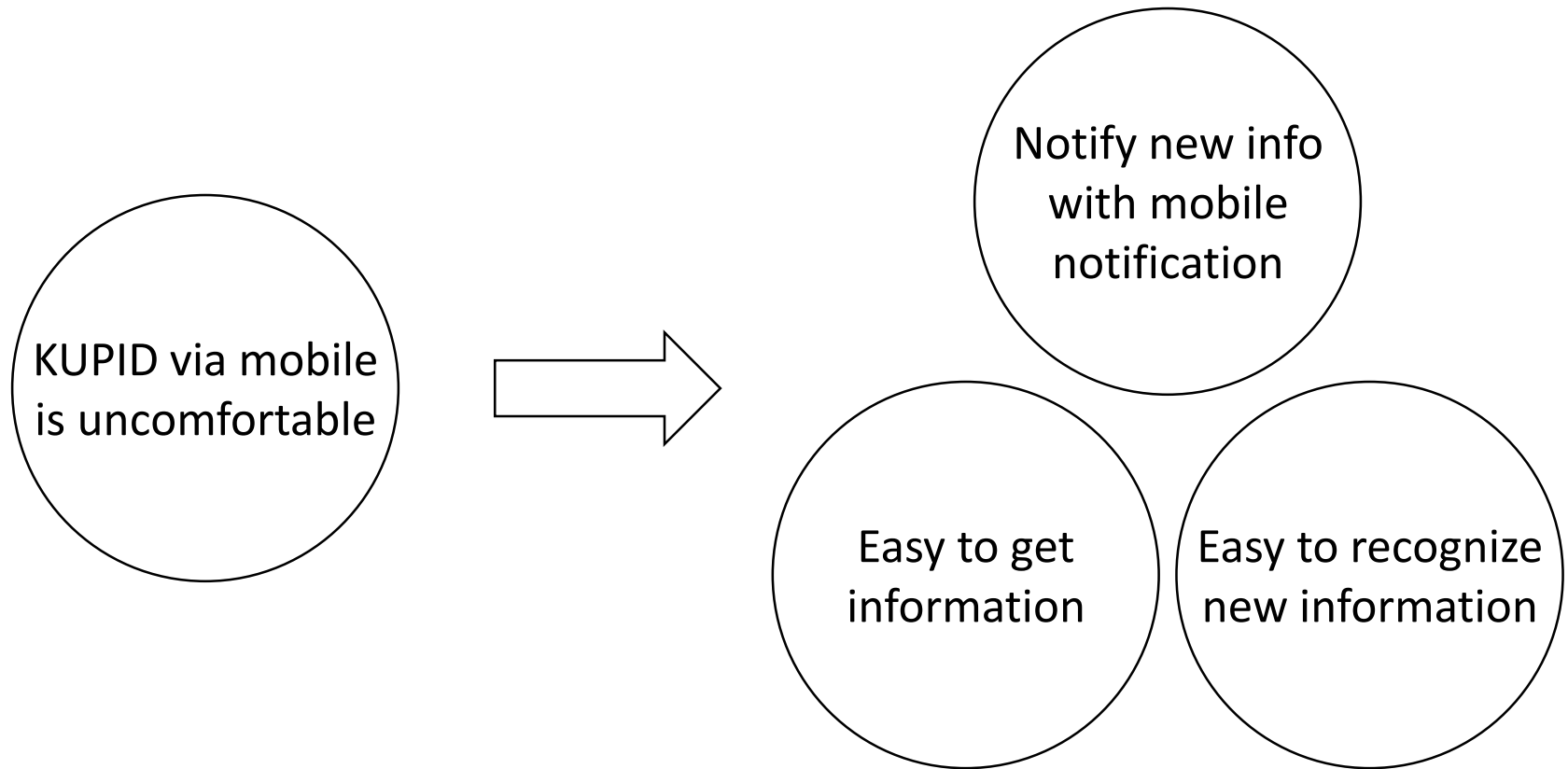
Easy to recognize
new information

Design
Guideline of
Android

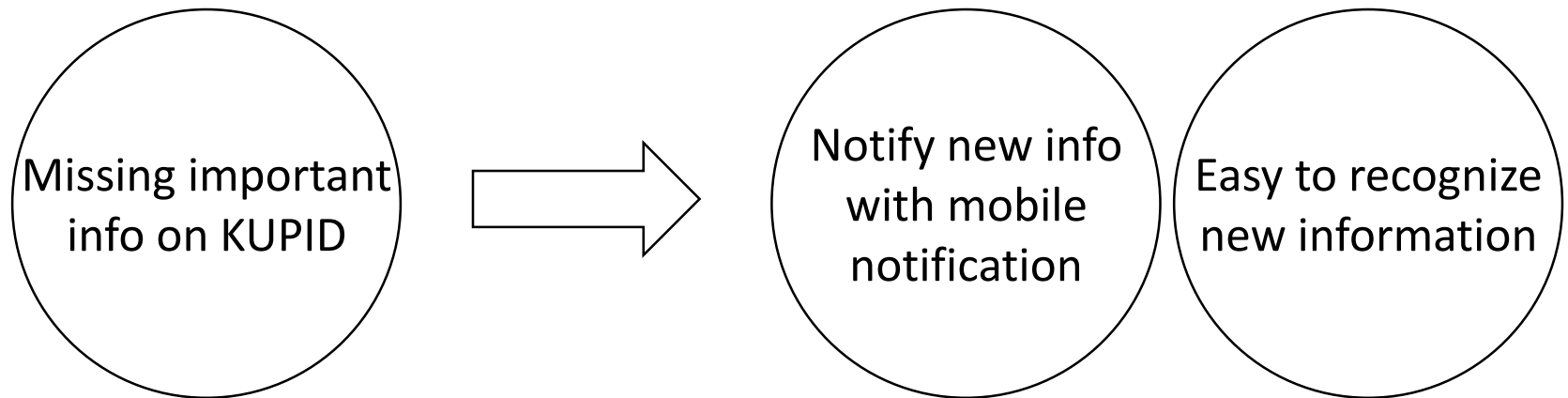
Security

Battery Usage

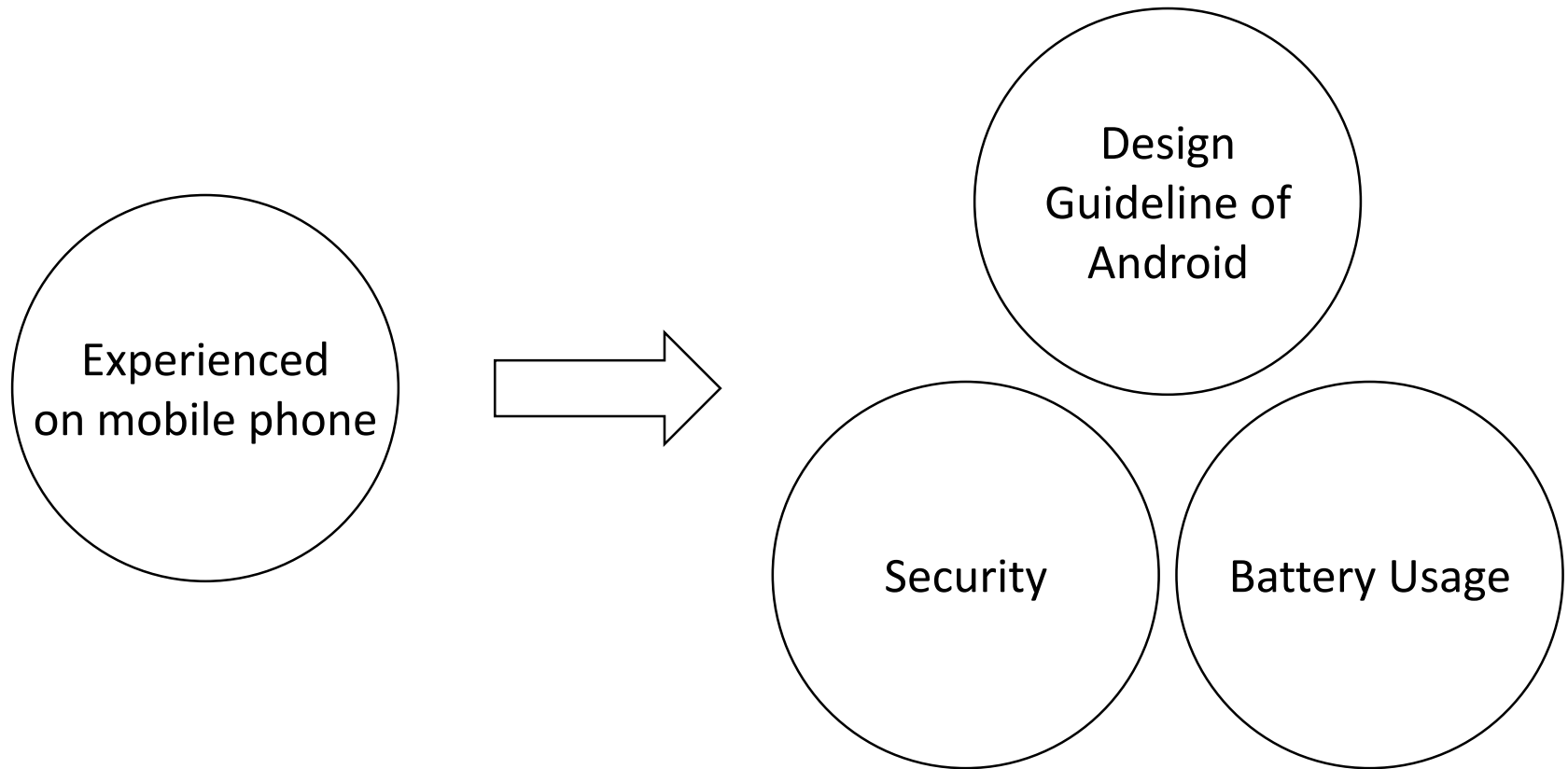
Lesson Learned



Lesson Learned



Lesson Learned



Thank you