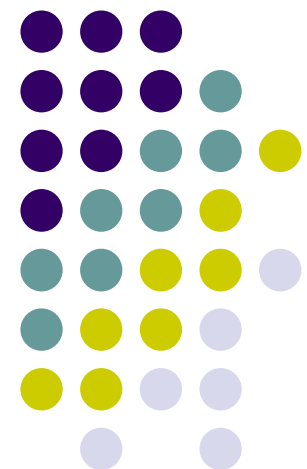# Ubiquitous and Mobile Computing
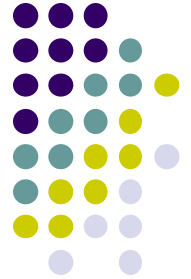# CS 403x: *LocaList*

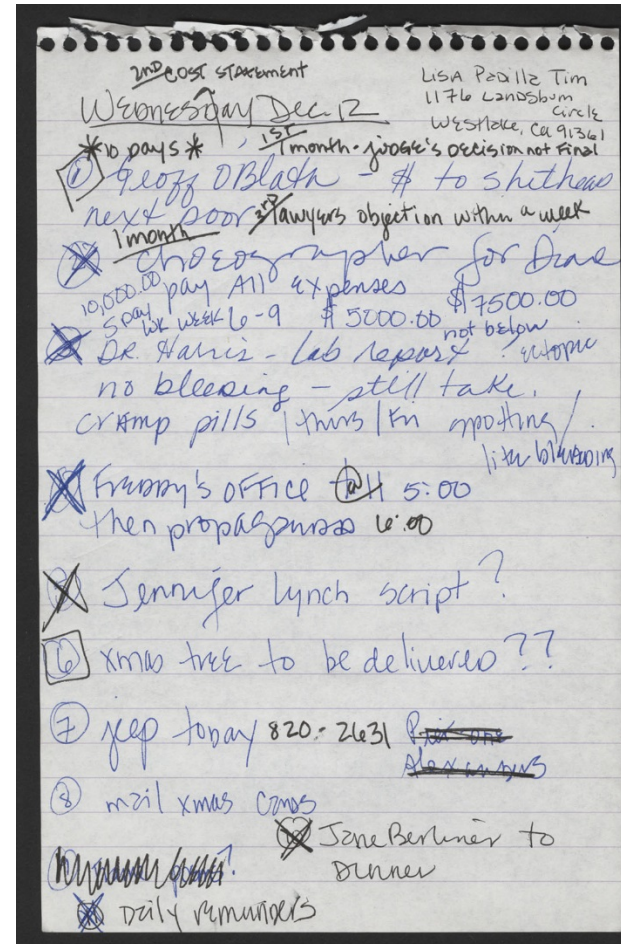Jonas Rogers

Peerapat Luxsuwong

Narut Akadejdechapanich

Computer Science Dept.

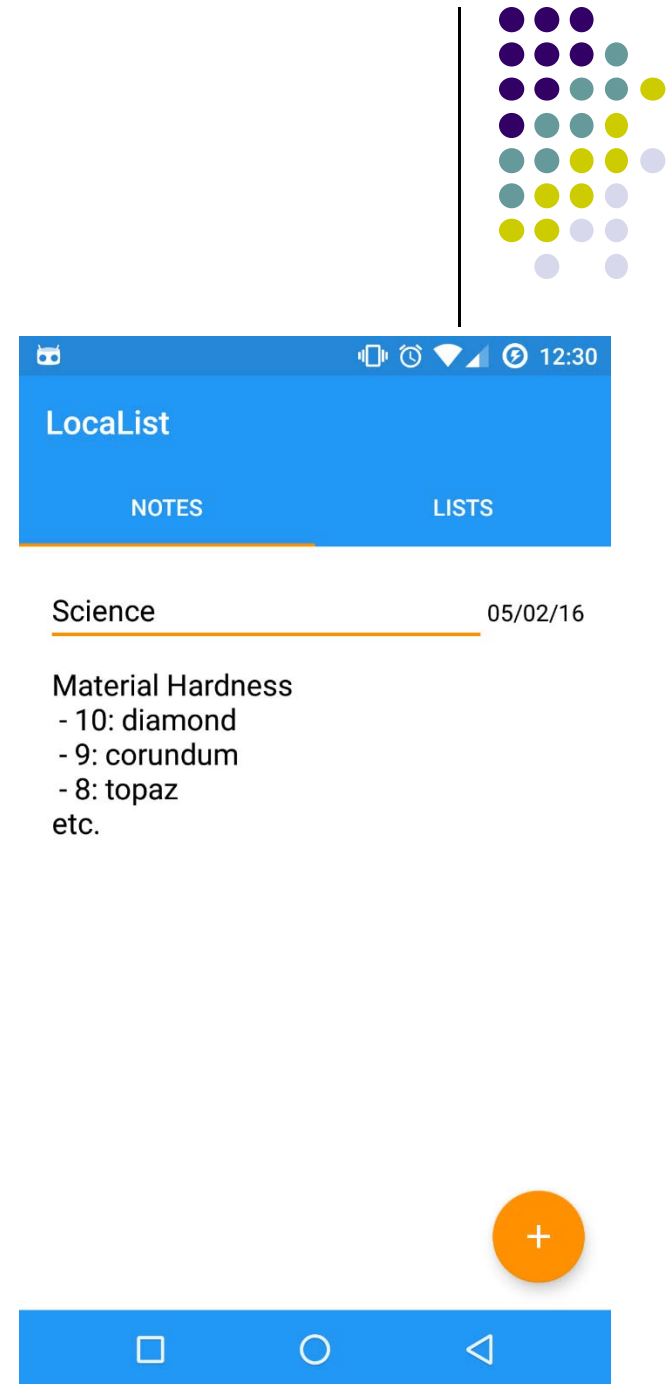*Worcester Polytechnic Institute (WPI)*

Problem Motivation

- People are lazy and forgetful

- Traditional note-taking requires manual organization

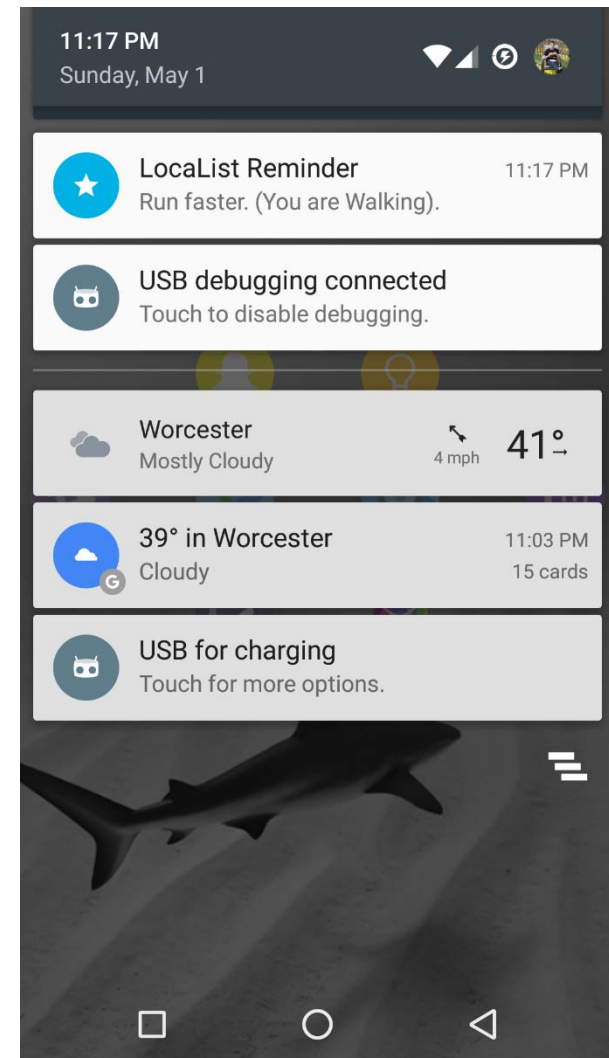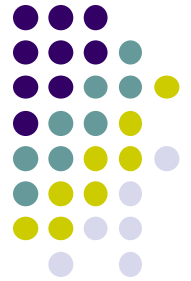- Traditional to-do-lists aren't effective in the mobile lifestyle

Vision

- Intelligent note-taking and list reminders app

- Reminds user of relevant tasks by location, time, and other sensor information

Methodology

- Manual user-based input
- Sensors/APIs in use
  - Location, Time, Activity Recognition
- Service running activity recognition and location for notifications

Related Work

- Some older location-based note taking apps exist
  - But, no modern apps that take into account multiple sensors and sources of information
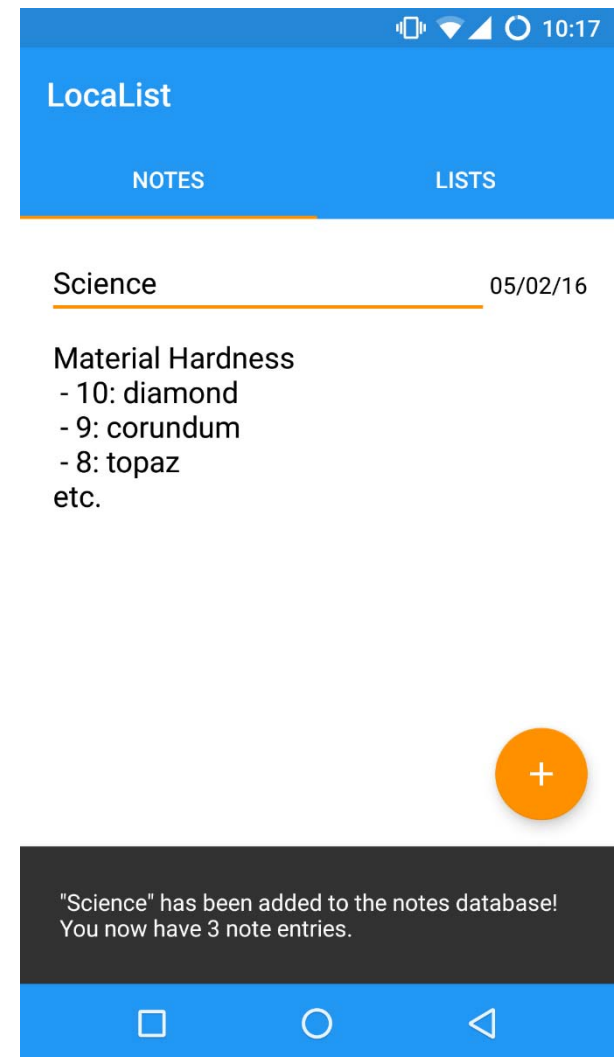- Google Keep and Siri have location based reminders

StoreNote
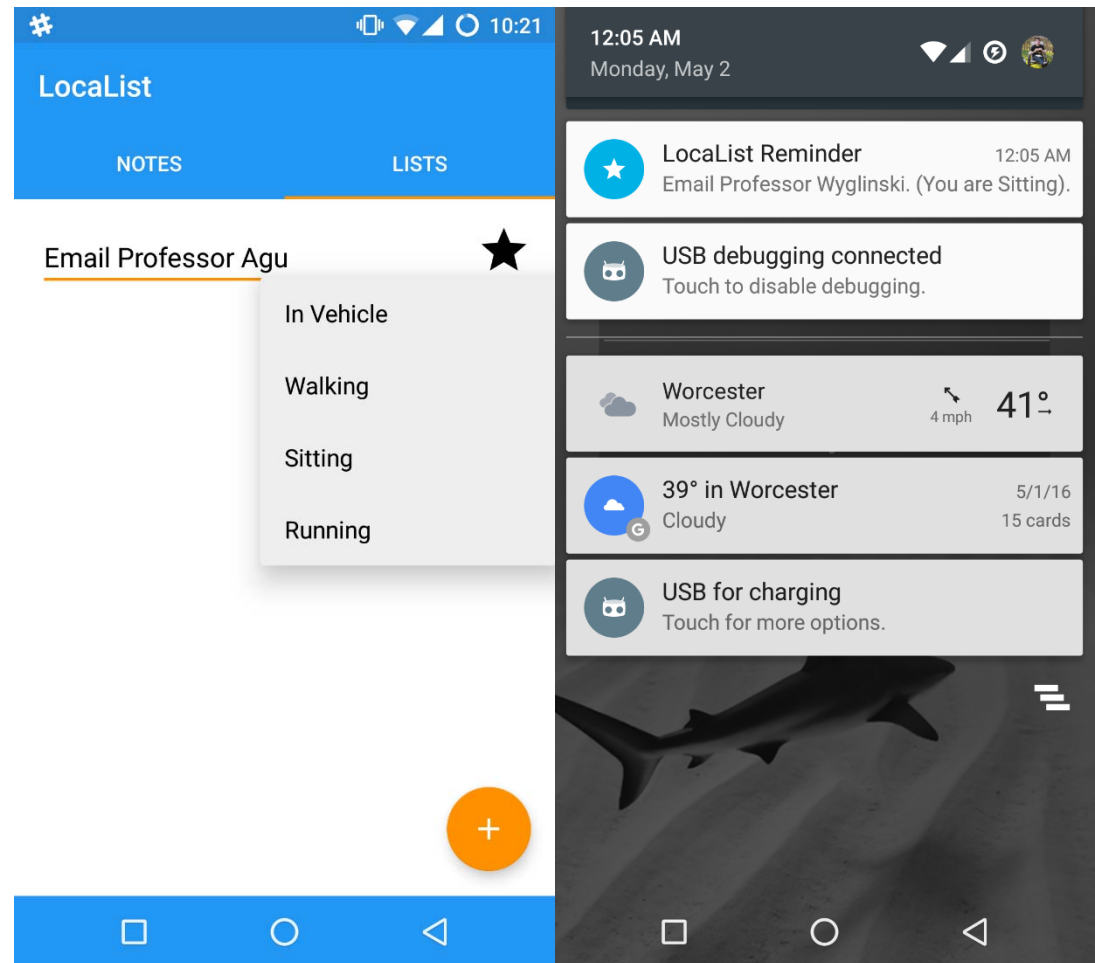
Google Keep

Implementation: Backend

- SQLite Database to store user input

- Read from database to display relevant information

- Services to retrieve from the database to compare the required activity recognition/location to notify user
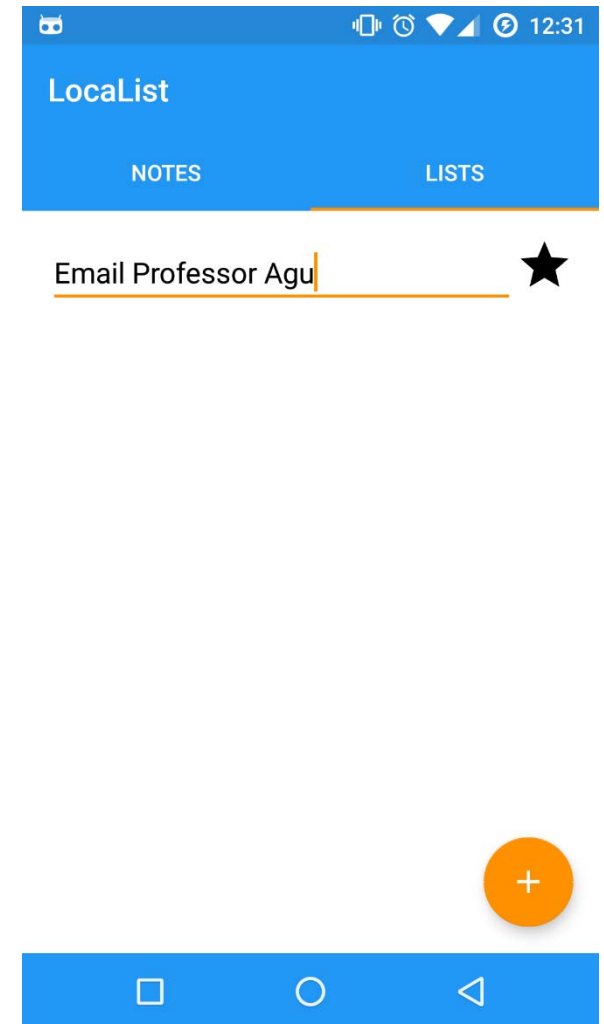
Implementation: Reminders

- Activity set via dropdown
- Stores activity choice to DB
- Notification generated when service sees activity

Implementation: User Interface

- ViewPager to display fields of either "Lists" or "Notes"

- Notes contain EditText fields for title and body

- Lists contain EditText for the topic and CheckBoxes

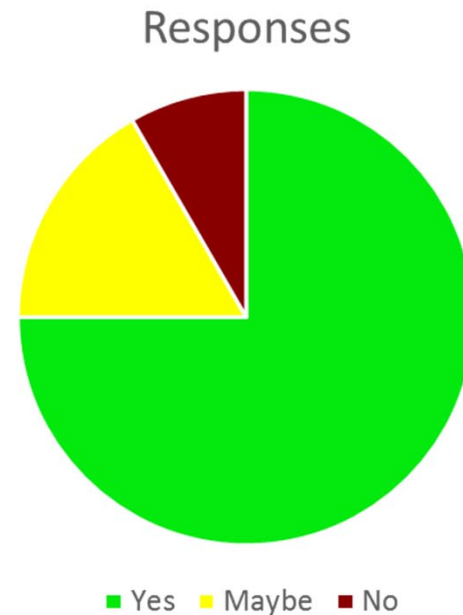- Floating Action Button to add notes and list items to database

Results

- A survey of 12 WPI students
- Question: "Would they find LocaList useful in their daily lives?"
- Yes – 9 students
- Maybe – 2 students
- No – 1 student

Responses

■ Yes ■ Maybe ■ No

References

- *StoreNote – location based note app last updated in 2013*
  https://play.google.com/store/apps/details?id=com.filantus.now
- *Google Keep https://keep.google.com*