Ubiquitous and Mobile Computing
CS 403x: LocaList

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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
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
References

- *StoreNote – location based note app last updated in 2013*
- *Google Keep [https://keep.google.com](https://keep.google.com)*