



David Ivins

# What is it?

- Android app for “checking in” on multiple location-based services
  - For the demo in this class - Foursquare and Gowalla
- Targeted user base
  - Users of multiple location-based services
  - Users that have Android phones
  - Users that may want to check-in to the same place on all or some location-based services via one app to save time

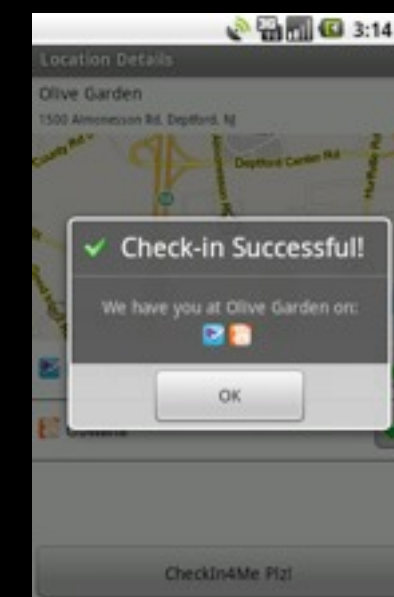
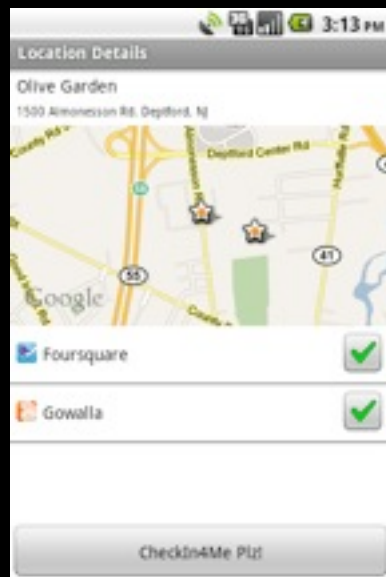
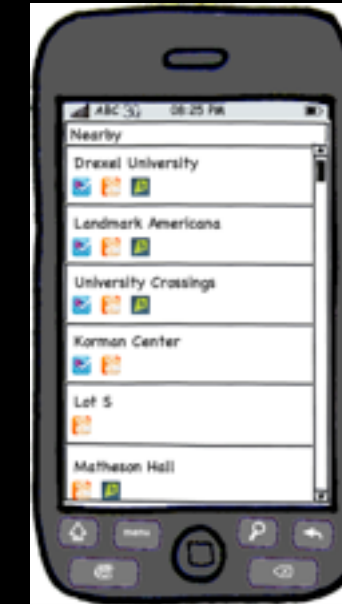
# Implementation

- Android SDK for development
  - VM of Android 2.2 with Google APIs (for the map), GPS-enabled
  - Java, XML, Eclipse, ADT Plugin
- OAuth protocol for authentication
  - 1.0 for Foursquare
  - Draft version of 2.0 for Gowalla

# Implementation

- Foursquare and Gowalla APIs
  - HTTP Requests / OAuth Requests
  - JSON-encoded Responses
- Git for Revision Control (available at <https://github.com/davidivins/CheckIn4Me/>)
- Testing
  - Eclipse using the Android VM
  - My Nexus One

# Implementation



# Additional Details

- Lessons Learned
  - OAuth 1.0 != OAuth 2.0
  - Don't shutdown the Android VM every time you have to test a change
    - SLOW
    - Messes up Logcat
  - Android reuses views like CRAZY
    - If you extend the ListView ArrayAdapter, CLEAR the row before adding to it.

# Questions?