



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

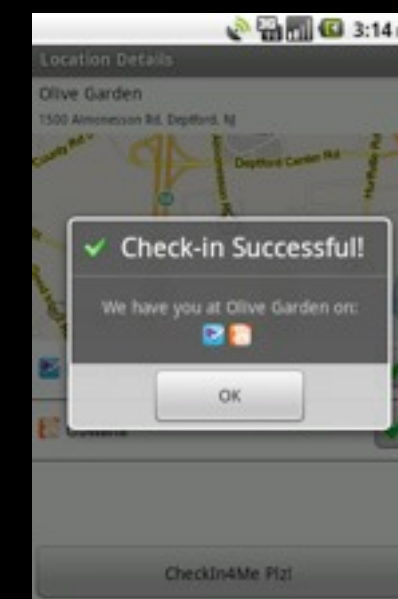
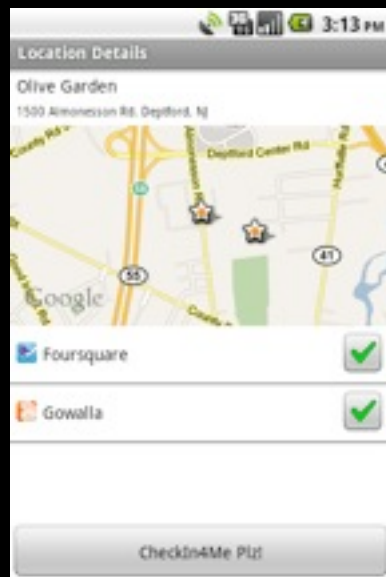
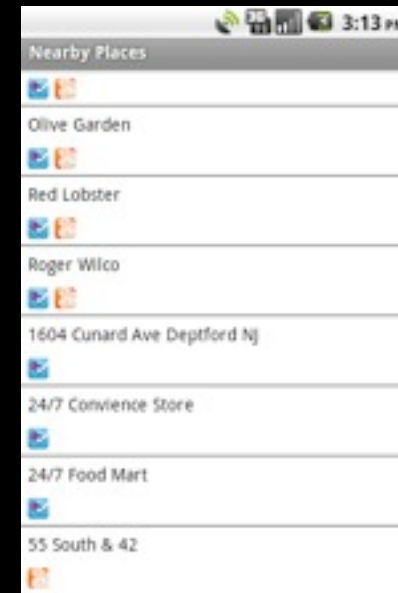
Implementation

- 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
- 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?