Nudge
(a gentle reminder, where and when you need it)

What’s the Point of Nudge?
• Today’s To-Do List Apps are only a little better than pen and paper. Just think - I can write a list, and I can prioritize them.
• Team Bacon wanted a to-do list that could do more. Why shouldn’t your phone be able to help you complete your tasks?
• There are a few to-do apps out there that have location based reminders, but Team Bacon thinks a smart phone based app should be able to find your locations for you!

In A Mere 5 Weeks, Team Bacon wanted:
• A To-Do List App with basic add, delete, and time based reminder functionality.
• The ability to poll for a specific location and provide a push notification if you are near that location.
• The ability to search for a short list of locations where one could accomplish a task.

Important Questions:
• How do we determine where we are? GPS? Mobile network? And how often should our location service poll for our current location?
• How often should we check for proximity to our notification location? What is considered proximate?
• How often should we search for target locations? What is considered a target location?

The Plan:
• Implement a bare-bones To-Do list with a minimalist interface - focus on the feature, and not bells and whistles other apps have.
• Use a service to poll for location, only updating or checking our target locations if the user has moved a significant distance.
• Take advantage of Google Places to provide our target locations.

The Result: A GREAT APP
• Just tell Nudge where you want to accomplish your task
• Nudge needs only a little guidance, leveraging Google Places to give you relevant notices, even “bread” will let Nudge know where to look!
• Never again worry about forgetting to stop by the convenience store on your way home!

What We Learned
• Timing is everything - on a mobile app, syncing data between multiple threads is a very fine balancing act.
• Do more with less - you don’t need to be polling for location or updated searches every 30s. Sometimes every 5 minutes, and if you’re not moving at all, every hour is fine.

A Mobile App Project By Team Bacon:
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App Design Inspired By:
• ReQall Smart Notifications
• Google Now
• iPhone’s Remindr app
Resources Used:
• Android SDK Development Kit
• Google Places API
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Publications Referenced
• “Promoting intergenerational communication through location-based asynchronous video communication.” Frank R. Bentley, Santosh Basapur, Sujoy Kumar Chowdhury. UbiComp ’11 Proceedings of the 13th international conference on Ubiquitous computing, 2011