

CPE 458 Project Proposal

Short Description

- An add-as-you-go virtual shopping list for the everyday grocery shopper

Overview

It is fairly common for people to go grocery shopping once a week or so for the upcoming week or weeks. However, it is not common for people to constantly keep a grocery list handy to fill in as their groceries deplete mid-week. Instead, we create a grocery list from memory right before we head out to the store and more often than not, we come up with an incomplete list and catch ourselves saying, "I forgot to buy _____," when we get home.

With PantryPal, when you run out of a certain item, for example milk, you simply scan the barcode on the empty jug and PantryPal quickly and easily adds the milk to your list. This way, by the time you go grocery shopping, you will have a neat, completed list. By scanning the barcode of your favorite groceries, PantryPal will even be able to locate surrounding grocery stores where you can purchase that item, allowing the user to better map out their weekly grocery shopping.

Anticipated APIs

- Camera for barcode scanner
- GPS and location services for finding nearby stores

External Data Sources

If we are to have the feature that allows PantryPal to search nearby grocery stores for items in the user's grocery list, we must have access to these grocery store databases.

Previous iOS Experience

The only previous iOS development experience we have is working on senior project starting Winter Quarter 2014.