Problem Statement
There are many people, especially for Christmas, for whom a person may need to get a present. What does one get? If one knows that person well, that may not be a problem. If not, then the question of what to get them might be a big problem. Many people solve this with gift registries. Those work fine, if the buyer lives near and has the budget to shop at that particular store. If not, what can one do? This Android app would solve that problem. It would create a wish list for each user which would register a product by it's UPC code. The buyers would be able to look up a wish list and shop from several different stores by their UPC lookup functions. An $80 product at Neiman-Marcus might be $30 at Target.

Requirements
This document is NOT a full requirements document for the system. That will be developed by the student practicum team for approval by the instructor as part of the project. There will be high level or general directions stated here followed by constraints or design directions in the next section. The instructor will work with the team to formulate a full requirements document.

Feature Ideas
These are the initial ideas on how the system should work. These concepts will be refined into a final feature set as part of the requirements phase.

1. The app would be able to “scan” or have manually entered the UPC code of a product.
2. The app would be able to take a picture of the product for reference.
3. The app would be able to specify an originating store and price. (possibly GPS location)
4. The app would be able to have a “unique product” option for items which do not have a UPC.
5. The app would be able to track several users' lists.
6. The app would have a “bought” button for items bought from a list to avoid duplicates.
7. The app would be able to search for users' lists.
8. The app would “look up” the product by UPC at major retailers (initially Walmart, Target, Home Depot, and Amazon)
9. (Depending on time and many power) The app would have calendar option which would give notices on birthdays, anniversaries, and allow users to be added to a Christmas list of which would track which users on the Christmas list had had a gift bought for them.

The final feature set will be determined as part of the requirements process. The amount of work to be committed will depend on the experience of the project team and the allotted time available in the semester. The instructor will serve as customer/user.

Design Constraints

1. The language used for the project will be Java.
2. The app will rely on API's and HTML lookups.
3. The back end will be a RESTful Rails API.