

Team 16 Project Charter  
Kitchen Inventory and Shopping Assistant

**Team Members:**

Garrett Sczechowski, Brad Warrum, Mark Froehling, Evan Rogers, John Masterson

**Problem Statement:**

Keeping track of food in one's kitchen is always important: by knowing what is currently in stock one can keep food from spoiling as well as reduce occurrences of over purchasing food when shopping. While there are currently mobile shopping list and food spoilage applications, there are no mobile applications for monitoring both together, nor do any of the current applications allow for automated look up via bar code.

**Project Objectives:**

1. Create a mobile application to help keep track of kitchen inventory as well as assist in grocery shopping.
2. Implement the ability to look up and track products via barcode scanning on the mobile application using UPC databases and crowdsourcing.
3. Develop a system to assist in tracking upcoming expiration dates as well as prioritizing certain types of foods.
4. Develop a server based backend to allow storage of account data and share account information across families.
5. Time permitting: a website frontend that contains the same inventory information as the mobile application.
6. Time permitting: the ability to create recipes and identify similar products and groupings.
7. Time permitting: create a price tracking system allow using to crowd source current prices of goods at retailers as well as a commercial interface for retailers to advertise their own prices.

**Stakeholders:**

Users: The typical user for this application would be any regular individual user or household owning Android mobile devices.

Commercial: There is the potential, should time permit, to create a commercial backend to allow retailers to advertise their own prices while browsing the competition's.

Developers: Garrett Sczechowski, Brad Warrum, Mark Froehling, Evan Rogers, John Masterson

Project manager: Garrett Sczechowski

Project owner: Garrett Sczechowski, Brad Warrum, Mark Froehling, Evan Rogers, John Masterson

**Deliverables:**

- A mobile application (most likely Android) capable of rendering all relevant user information.
- Backend server application capable of storing and syncing household information to multiple mobile devices.
- Mobile barcode scanning capabilities combined with UPC code lookup either via library or assistant application to identify products.
- Time permitting: Frontend web page capable of showing user data as well as providing extra, more powerful features.