**Project Team Members**

Nathan Moore

**Restaurant/Home Kitchen Inventory Management System**

This program will be used to create monthly expense reports for home keep up with manage food product expenses. These reports will be displayed as graphs as well as lists of flagged items either being underused (going bad) or overused (losing money) based on a database of recipes/inventory upkept by the end user.

This program is implemented in almost all commercial kitchens already and some are far better than others. The largest problem that our program works to fix is a difficult, often clunky, user interface for these types of programs, and aims to increases the ease of workflow for home chefs who wish to have an easier way to manage their inventory.

This program will meet all required components by:

1. Using classes, objects, dynamically allocated memory to hide information from end user
2. Have a GUI that is easy to use for any application
3. Use an outside source(database/xml file) to import initial data used to build on
4. User will enter information that will update said source for future updates
5. Data will be presented in a well formed manner using graphs and lists

* User inputs weight in:
  + Dry in lb oz(to tenth)
  + Wet in oz(to best measurement)
* Database should include:
  + A previous baseline of inventory amounts
  + Prices for all inventory
  + Recipes which use specific items
    - * + Must include item prices to total to recipe expense
* General Idea of this program is:
  + Take in weekly expenses
  + Divide them into product by product basis
  + Use user input/stored recipes and stored products to determine over/under on product usage
  + Provide a way to add/delete specific items
  + Flag products that have been overused causing a loss to the business
  + Flag products that have been underused showing that some menu items are not being made properly
  + Ideally display a weekly updated report that shows statistics of sales and gains/losses due to inventory and compile yearly reports
  + Users should have options to choose between dates to create new graphs, although this will be extra if we have the time, can be edited in later on for actual use at home
* Testing of this program will consist of:
  + Loading a preset amount of recipes into the program(these will be loaded in as objects that the user can input/load in from text file)
  + User must manually enter each weeks inventory which will be stored in a database(JSON file for our purposes since it works natively with java)
  + Building command line program first then port to GUI will most likely be the best way of attack here