**Team D’s Execution Plan for Foodex Implementation - Spring 2017**

Involved APIs in the Process Include:

* 1. 2 weeks
     1. Cam scan OCR for reading receipt images for text conversion.
     2. Food index and expiration from date USDA food for the database.
     3. Nutritional value/ recipes apps such as Food Networks will be used for recipes suggestion.
* The API’s will be executed according to the order listed within 2 weeks, from 01/25- 02/08.

Database: 3 weeks

* Relational database between food name and date will be generated using campus issued server. There will be at least 3 tables: food name, expiration dates, and recipes according to each kind of food. The time span for this part of the project will be 3 weeks, from 02/09-03/03, where tables and attributes will take 2 weeks and 1 week for the relations.

*\*\*Test generation will be integrated with the database during implementation and overall testing will take 2 days from 03/03-03/05\*\**

Algorithm: 5 weeks

*\*\*We will also be implementing many algorithms for the app to be able to run with APIs’ data.\*\**

* 1. Solving abbreviation algorithm for converting receipt phrases into food names for the listing.
  2. Sorting by dates uses the database of food and dates to generate a list of ascending dates of food.
  3. Search by keywords of food items on top of the list for appropriate recipes.
* The goal is to spend 1.5 weeks for each algorithm, from 03/06-04/10.

*\*\*Testing will occur for each algorithm after the end of implementation and overall testing will take ½ week from 04/10-04/14.\*\**

*\*\*Overall assembly and initial bug fixing will take an additional 1.5 weeks from 04/14-04/25.\*\**

*The last two features are add-ons to the apps in with the consideration of timing and prior progress.*

1. **Notification feature: 1 week**
   * To notify users about food expiration for each morning or through customized settings.
2. **Sharing feature: 1 week**
   * To allow sharing through social medias pictures and recipes made for that day’s suggestion.

* The above 2 features will take 2 weeks in total for implementation with testing occurs separately once assembled into the main project. The duration will be from 04/26-05/10.

*\*\*Overall testing and bug fixing will occur during the last week of May, one week before launch date.\*\**