Stakeholders

List of stakeholders (users, operators, others) and their roles

1. Primary app users
   Use ImHungry.com to decide what recipes to make of the ingredients that they have.

2. Yummly (API) and Food2Fork
   These are the providers of the initial recipe data that we need. They have the power to control how much data we can access and in what format.

Resources

1. Yummly API: We will use the academic access we have to the Yummly API in order to curate a satisfactory database of recipes that our website will rely on as the basis of our search queries.

2. Food2Fork API: In the case that the Yummly API does not prove satisfactory, we may decide to incorporate recipes from a second source, the Food2Fork API. This is a likely scenario.

Tasks/Calendar:

MVP Implementation (11/23):

Recipe Mining (from Yummly and Food2Fork) - Isabel
- Use the Yummly and Food2Fork API to mine all recipes (recipe titles, ingredients, description, images)

Recipe View - Isabel
- Create front end to view selected recipe
- Create Recipe model

Account Creation and Management - Nadia
- Create front end for login page and account creation page
- Create data model for user accounts

Cookbook - Nadia
- Create front end to view saved recipes
- Create data model to save recipes

Pantry Sidebar - Lily
- Create front end the pantry sidebar
- Adding/deleting items from pantry
- Create data model for pantry and ingredients
- Sending the data to search

Search - Maryann
- Create front end for search view
- Search for recipes that use the ingredients in pantry
- Return recipe results with recipe name and description

The first half of bullet points will be due on 11/19. The second half will be due on the MVP deadline (11/23).

Final version of code (12/6):
Recipes - Isabel
- Include new features such as ratings into recipe view

Ratings - Nadia
- Recipes each have a single rating that is an average of users' ratings

Pantry Sharing (Sous Chefs) - Isabel and Nadia
- Creating friends (aka sous chefs)
- Sharing ingredients from pantries

Pantry Sidebar - Lily
- Selecting certain ingredients from pantry for search
- Specifying amounts of each ingredient for search
- Reset all ingredient amounts to default

Search - Maryann
- Search for recipes based on ingredient amounts
- Scale recipes down to match serving size
- Search for recipes that include extra ingredients

Risks
Enumeration of expected risks and their mitigations
1. Our search finds no recipe exists that can use only those ingredients.
   a. The user can specify how many "extra" ingredients they allow in the recipe as an option, and we will return recipes that include at most that number of ingredients the user doesn't currently own.
2. The user doesn't have enough of an ingredient.
   a. The user can specify the amount of an ingredient they own. If they do not specify any amount, the ingredient will be assumed to be unlimited. In user settings, the user can specify whether they use the US or metric system of measurement.
3. A user finds a recipe they really like once and can never find it again.
   a. We will have registered users that have a "cookbook" where they can save recipes they like.

4. A user misspells an ingredient or doesn't correctly describe an ingredient so this will never be found in recipes.
    a. All ingredients found in the recipes we have mined will be stored so all inputs are auto-completed as an ingredient that appears in at least one recipe from the many recipes we have mined. This mitigates the problem of string mismatch
5. A recipe returned to the user is bad or poorly written
    a. Users can rate recipes for the benefit of other users to view
6. The serving size of a specific recipe may not coincide with the serving size a user would like to create. This would be a problem if, for example, a user has 2 tomatoes and would like to make a dinner that is only one serving. There could also exist a recipe that calls for 20 tomatoes but makes a serving size of 10. In this case, the user would have wanted to see that recipe but ImHungry may not return that recipe to the user because on the surface level, the user doesn't have enough tomatoes
    a. To mitigate this, we will allow users to specify a serving size they would like to search for in a recipe. We will scale all recipes to account for this so the ingredients in the recipes returned will conform to the amount the user is expecting when the user searches.

Minimum Viable Product

The Minimum Viable Product will support recipe search by ingredients from a single user's pantry. This requires implementation of a rudimentary Pantry sidebar and recipe search. We will also implement the Cookbook where the user can save recipes. This will require us to also implement account creation and login credentials to user's Cookbook and Pantry for future logins.

Additionally, we will implement a polished user interface for all of the above-mentioned features of the product. This will include a sidebar that functions as a pantry, a separate page that the user can view their cookbook, and a results page for searched recipes.

Including recipe search in our MVP also means that we will be performing recipe mining from Yummly and/or Food2Fork by then in order to have a substantial collection of recipes to search from.

We will be postponing ingredient amount restrictions in the Pantry and serving size specification in the search, as well as the recipe ratings system (recipes will be unrated for the MVP). We will also be postponing autocomplete when adding ingredients. Additionally we will be postponing our Sous Chef concept (Pantry sharing).

Please refer to the Minimum Viable Product heading under the Tasks section to see a point-by-point list of items in the MVP and our Design Document for more explicit explanations of the concepts mentioned in the above paragraphs.