**Capstone Project Proposal**

**1. What goal will your website be designed to achieve?**

This project aims to help the user to prepare daily (weekly) meals by getting the food ingredients from recipes, creating grocery shopping lists, and calculating the price from the grocery shopping list.

**2. What kind of users will visit your site? In other words, what is the demographic of your users?**

Housewives or people who help restaurants prepare meals on a daily/weekly basis.

**3. What data do you plan on using? You may have not picked your actual API yet, which is fine, just outline what kind of data you would like it to contain.**

The spoonacular API (https://spoonacular.com/food-api) which allows us to understand the relationships between ingredients, recipes, nutrition, allergens, and more.

**4. In brief, outline your approach to creating your project (knowing that you may not know everything in advance and that these details might change later). Answer questions like the ones below, but feel free to add more information:**

**a. What does your database schema look like?**

* Recipe
* Meal
* Ingredients
* Price
* Grocery shopping list

**b. What kinds of issues might you run into with your API?**

Need Sign Up to use free plan. Quotas: Calling this endpoint requires 1 point and 0.01 points per result returned. 150 points/day.

**c. Is there any sensitive information you need to secure?**

* Username
* Password
* User’s favorite list

**d. What functionality will your app include?**

* Search Recipes
* Extract Recipe from Website
* Get Recipe Information
* Price Breakdown by ID
* Compute Ingredient Amount
* Search Grocery Products
* Map Ingredients to Grocery Products
* Get Shopping List
* Add to Shopping List
* Delete from Shopping List
* Generate Shopping List
* Compute Shopping List

**e. What will the user flow look like?**

* Search recipes from websites =>
* Extract ingredients =>
* Get the price of each ingredient =>
* Save data to the database =>
* Users can add/edit/delete the amounts of each ingredient =>
* Generate a shopping list for a meal =>
* Calculate the price for all ingredients =>
* Save the shopping lists to the database =>
* Users can add/edit/delete/reorder the shopping lists =>
* Print a PDF / Send an email for the user to do groceries shopping

**f. What features make your site more than CRUD? Do you have any stretch goals?**

Additional functions:

* Favorite
* Add tag/comment
* Change color
* Classify
* Authentication
* Keyword Search
* Query