**Project 3 Prototype Website: NutriPantry**

Goal of project: To create a user-interactive recipe website that allows the user to keep track of their nutritional intake as well as find recipes that correspond with what they have in their home.

Planned Scope:

* Range of Functionality: Elaborating from what our goal is, we will provide a database for the user to be able to search through. In addition allow the user to make an account to keep track of their nutrition according to which recipes they use. Also, have the ability to incorporate “special needs” meals such as lactose and tolerant, vegan, etc (done by implementing an option for manipulating the search to not include certain ingredients). This website will use major web services/APIs such as YouTube and ReciPal for sure in order to allow for the search result to show up a how-to video on the recipe and nutrition analysis of the product.
* Fall back goals: Incorporating social media into our website so that the user is able to share the recipe they used as well as the nutrition analysis.
* Stretch goals: Incorporate a calendar for the user to be able to keep track of what they will make daily. Recommended recipes based off what the user has already looked up/created. Also, to implement Spoonacular if time permits.

Web Services Used & Why:

* YouTube: To bring up video recipes and how-to’s for cooking
* ReciPal: Used for nutritional analysis for recipes and possible full recipes.
* Spoonacular: Will possibly be implemented as a database search engine for full recipes and nutrition content.
* Social Media: Facebook, Instagram, Pinterest, etc.: Deemed as fall back goal, used for user to be able to share what they created based off our website.

Background Story: Joe is sitting at home and he feels like cooking for the first time in months. He opens his pantry and fridge and notices that he only has: ground beef, cheese, flour, milk, onions and some general seasonings. Unfortunately he unable to think of what to do with the ingredients he has, so he decides to search online… After hours of googling “recipes using ground beef” and constantly going back and forth due to the fact he did not have all the required ingredients, he finally stumbles across a recipe website named “NutriPantry”.He clicked on the website and decided to create an account for he wished to improve his unhealthy life and keep track of what he was eating. After creating an account he input all of the ingredients he had into the search bar and hit enter. A plethora of recipes all including the ingredients he had on hand were instantly brought up onto his screen. He was relieved to have finally found a recipe including only the ingredients he had without the need to go out to the grocery store. With one click he was taken to a page that provided him with tips and an easy to follow recipe to make meatballs with a YouTube video showing him how to roll the perfect balls. He makes the meatballs with ease, and after he logs that he has successfully utilized this recipe, the website provides him with a nutritional analysis of what he has just eaten. He sighs in satisfaction, “At last.”

Development Challenges: Searching through the database for specific recipes based off user input. Implementing UI animations for results page (i.e. when a user clicks on a specific recipe he is interested in creating, the UI should fade away all other recipes and have a focused output on desired recipe). Learning how to use and incorporate ReciPal into our website. Keeping a user database for all accounts created.

Organization Plan (Who does what):

* All: Learn how to incorporate ReciPal into recipe website.
* Nilay: Project Manager, in charge of keeping track of task activity, in charge of user study management/design (creation of necessary surveys, documents, etc), and front-end work on website.
* My: In charge of mostly front-end work of the website (creation of introduction screen, how-to screen, etc), UI, and back-end (making sure buttons work, database incorporation for front-end buttons/search etc).
* Jasmin: In charge of mostly back-end work of the website including recipe database and user account database. Help create background user story.