

Review Document

Project Overview:

- ChefAI is a program that is meant to help users be able to get the most out of the food they have available to them. Creating meals out of what is available in the kitchen, restricting the generated menus from what the user can't consume, and giving instructions and nutritional information on those meals.

Implemented Portions of the Project:

- Initial GUI of User Nutritional Preferences and Available Food to the User
- Attached API to the code
- GUI creates a JSON file that has dietary information inside it, as well as instructions
- Textbox also appears reading what food item will be created with the JSON file

Problems Along the Way:

- Some of the terminal answers got so long it was impossible to troubleshoot
 - Identified that there was a dictionary issue, not a list issue, and so it changed some of the syntax in the code. After re-reading the code flow about a dozen times, I found where it all went to and made edits
- Microphone capabilities didn't work for a couple of days
 - I got crunched for time, so this was 'solved' by being commented out

Next Steps:

- Want to make the microphone functional. Will need more researching and digging, I don't doubt this has been done before, but I'm slow when it comes to translating pre-written code, and re-wording it into my own format
- Want to put customizable limits on the amount of hits for an item. I think this I can look up how to do for the TKinter interface.

Where do I need help?

- Once I figure out what the next filter will be, I think I will need help figuring out the basics of working with, I guess 2 APIs inside of a program, a little unsure how much of a headache it will cause.
- The other one will be trying to figure out how to get personalized login information to be created and stored and then recalled later. I think I can code the GUI for it, I have an idea of what will be on it, but the recalling, I'll almost for sure need help with.

Milestones:

- Get Microphone functionality into ChefAI, or at least show that it can capture data, with a way to store it and process it.
- Collate the 'hits' to a more condensed list, probably like 12 items a page or something. This should really help with usability
- Add a personalized login screen per user, and a way to store preferences and restrictions (probably won't be done till Version 3)

Self-Reflection:

Are you satisfied with your progress so far?

- I'm satisfied with the progress made so far.

Do you think you can finish the project within the next weeks?

- I don't think the whole project will be finished by the next few weeks. I think I'll get the basic functionality for several things done. The BIG focus for me right now, is to get a way to make a collated list of 12 food items that can be suggested to the user, and to be able to present instructions to make the meal. If I finish, I think the login and personalization would be immediate next steps for me

Expectations vs. reality: what was easier, what was more difficult than you expected?

- Admittedly, when I started the class, I knew I was going to start a full-time job, and that I'd be busy and all, but I thought I'd be able to get more done by this point even with all this going on.

Any light bulb moments? In actually working on your project, did you discover something that you had not expected?

- I had a couple, one was using the 'pack' layout manager. I used 'pack' first, but switched to 'grid' to offer some more dynamic visibility for users.
- Another was dealing with the 'EAPI.search_recipe" error. It goes to show how important it is to understand the signatures of 3rd party databases, and properly mapping arguments to help prevent runtime
- One thing that I will try to do more of, is 'messagebox.showinfo'. I think giving the user a prompt to make sure they are informed, is really helpful, and I want to try to introduce more of them.

Revised Spec Sheet:

- Revisions:
 - User Task 1: No change (just need more parameters for the GUI)
 - User Task 2: No change (will make these into a list of hits)
 - User Task 3: No change to main goal, however, I don't think the intricacies that are involved with asking the app what to replace food items with, will be possible. (Only change is the vocal components, I want to be able to find instructions though)
 - User Task 4: No change (want to keep for calorie counting, possible next feature to add? Calorie tracking)
- Data Flow:
 - Not any noticeable changes are necessary, just need to remember to make use of the created JSON file, to help make the display for the app.