1. KitchenSync: A Pantry and Recipe Companion
2. Team Members
    a. David Tran
        i. dtran2021@my.fit.edu
    b. Chris Nederhoed
        i. cnederhoed2020@my.fit.edu
    c. Tyler Son
        i. tson2022@my.fit.edu
3. Advisor - Fitzroy Nembhard
    a. fnembhard@fit.edu
4. Client - Fitzroy Nembhard
    a. Affiliation - College professor in the department of computer science
5. Progress of current milestone

Task	Completion %	Tyler Son	Chris Nederhoed	David Tran	To do
1. Investigate tools	100%	33%	67%	0%	none
2. Hello World demos	75%	0%	75%	0%	Create a tesseract receipt scanner
3. Requirement Document	100%	5%	90%	5%	none
4. Design Document	100%	0%	0%	100%	none
5. Test Plan	100%	100%	0%	0%	none

6. Discussion (at least a few sentences, ie a paragraph) of each accomplished task (and obstacles) for the current Milestone:
    a. Task 1: The tools we looked at all seemed great except for the Barcode Lookup which turned out to be locked behind a paywall. We instead opted to change that to a inhouse solution using a few different python libraries such as pyzbar and PIL. Open food facts works wonders and Tesseract

has tons of versatility. Below is a comparison table for open food facts vs USDA data set

b.

	OpenFoodFacts	USDA
Products	Has more consumer level items like SunnyD or pre packaged items	Data is more about ingredients vs every item
Nutrient Data	Better traceability as it looks at a product and not a general item such as ground beef from Publix vs ground beef as a whole	Great break down of macros and micros for a item
API access	Easy to use open source project	Rest access only
How often is new data added?	Almost daily depending on users who contribute	Data seems to be updated in a non standard manner making new foods hard to have their nutrition added.

As outlined above the matrix showed us that openfoodfacts ended up being the better go to API for getting the nutritional information and other product data from a product identification number from a barcode. It should be noted that if an item lacks proper nutrition information on openfoodfacts we can either manually add them ourselves or use the USDA database to supplement the nutritional information as needed if we need to. As for our collaboration tools we decided on using JIra for our software development tool and then google suites for the documents and presentations. Jira also has a built in agile methodology that we plan on using.

c. Task 2: We constructed a demo using the python liberties mentioned above to take an image and get the barcode within it and return a product ID. From here we are able to feed it into the Open Food Facts website and get the product and the details of the product such as nutrition facts. Tesseract has proven to be useful in reading a receipt however there are

still the issues of getting just the food items and converting the receipt shorthand into products. We will need to read into the api and other online sources to get the data we want in a usable form.

d. Task 3: The requirements document was completed. The main blockage here was fully looking at interfaces and performance requirements. Some of them were obvious such as build size for mobile devices or the expected return time of a recipe search.
e. Task 4: The design document was completed. We put together each module based on the overall features we described and the requirements. The UX/UI will evolve as we go forward for now we will use a simple GUI and add to it as we add more functionality.
f. Task 5: The test plan was completed. Our goal was to make sure we could accurately plan and then test each feature to make sure it did what we thought it should do. We also want to mention that we will include some edgecase where a user “technically” can do something and thus might do it to see how our system behaves.

7. Discussion (at least a few sentences, ie a paragraph) of contribution of each team member to the current Milestone:
    a. Tyler Son: Wrote the test plan. Researched a little about Open Food Facts.
    b. David Tran: Wrote the design document.
    c. Chris Nederhoed: Wrote the requirements document. Researched barcode scanner tools. Found that one of the tools was not free. Created a framework that proves that the free barcode scanner tool works.
8. Plan for the next Milestone (task matrix)

Task	Tyler Son	David Tran	Chris Nederhoed
1. Implement, test & demo *inventory management system*	*Demo Tagging items.*	*Demo List Creation and Sharing*	*Demo of Barcode and receipt scanning. Demo moving items to different storage locations.*
2. Implement, test & demo recipe organizing system and Sharing	Demo Recipe Card Creation from user imputed recipe. Demo	Demo Recipe Sharing. Demo Review System	Demo Recipe Nutrition breakdown

	Recipe Filters and Tags		
3. Create a GUI			Create User Dashboard and supporting menus for the features being tested
4. Create the Database of recipes to be seeded by admins and later added to by users	50% - Implement the schema	50% - Seed the initial recipe DB	

9. Discussion (at least a few sentences, ie a paragraph) of each planned task for the next Milestone or "Lessons Learned" if this is for Milestone 6
    a. Task 1: Focus on having the inventory management system being able to scan recipes and barcodes to process the food items. Later on, the system should be able to form lists and tag items. Then the system will be able to move items to different storage locations.
    b. Task 2: Focus on creating recipes and get recipe sharing set up. Then provide recipe filters/tags, a review system, and nutrition breakdown.
    c. Task 3: Focus on getting the user application put together. The primary goal here is to get a GUI and slowly add the different menus as more functions get added.
    d. Task 4: Goal for this one is to establish the database for recipes using AWS dynamoDB as it is 25GB free and should be plenty of storage for recipes to start with and have space for user created ones.
10. Date(s) of meeting(s) with Client during the current milestone: 9/25/24
11. Client feedback on the current milestone
    a. ... (if Client and Faculty Advisor are the same, write "see Faculty Advisor Feedback below")
    b. ...
    c. ...
12. Date(s) of meeting(s) with Faculty Advisor during the current milestone: 9/25/24
13. Faculty Advisor feedback on each task for the current Milestone

a. Task 1: A comparison table should be created to display the differences between nutritional databases that are being considered and a final decision on what database will be used and why.
b. Task 2: No feedback needed.
c. Task 3: Performance metrics should be included in the requirements document.
d. Task 4: The website design should follow 6-3-1 rule for website design.
e. Task 5: No feedback needed.

14. Faculty Advisor Signature: _____ Date: 9/30/2024

------ on a separate page ---------

15. Evaluation by Faculty Advisor
    a. Faculty Advisor: detach and return this page to Dr. Chan (HC 209) or email the scores to pkc@cs.fit.edu
    b. Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Tyler Son	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
David Tran	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Chris Nederhoed	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

- Faculty Advisor Signature: _____ Date: 9/30/2024