

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	% Done	Tyler Son	Chris Nederhoed	David Tran	To do
Inventory Management System	95%		100%		Auto Tracking (add checkbox to items to track) + (Button to adjust auto tracking such as what items are tracked + min item count before notification)
Recipe Organizing System	90%		100%		Recipe Notes (Where the * will we put this), Recipe Cooking Images (how do we link the step with the image / video)
GUI	70%		100%		Community Reviews/feedback, Community Add Recipe, Search Bar, Connect Modules to User Dashboard, Filter popups, Random UI/UX components

User Accounts	30%			100%	Account creation
Meal Planner	70%		100%		Recipe Sharing to Other users/non-users, Recipe Ingredients added to needed ingredient list, Recipe ingredients removed from list if updated, Recipe ingredients removed from inventory if made, Nutrition Calculator, Daily Meal Summary
Community Recipes	20%	30%	70%		Recipe Reviews/Feedback, Populate the Starting Recipe DB, Populate the UI with Recipe Cards, Allow user to Post Recipes, Allow Users to Save Recipes, Allow Users to Remove their Recipes, Allow Users to edit/update their Recipes
Review/Feedback system	50%	100%			Allow users to provide a review. Allow users to report a recipe. Allow a user to provide a feedback score
Shopping Companion	40%			100%	List Sharing, Item pricing, Price data from retailers, Price data from club stores, Price per unit comparison, Meal cost Estimate
Admin Backend	10%			100%	User and Admin accounts, Admin Portal, Admin lists of current users, names, feedback, recipes. Admin filters, Admin sorting, Admin ticketing system, Admin controls, Activity Logs, Reporting System

6. Discussion (at least a few sentences, ie a paragraph) of each accomplished task (and obstacles) for the current Milestone:
 - a. Inventory Management System
 - i. This module is near completion with the last component being auto tracking of items the user selects to have tracked. This will include a condition of on min item count to notify the user. Other facets of this module are now working and will be subject to testing with real data to explore any shortcomings in the design.
 - b. Recipe Organizing System

- i. This module is also near completion with two main components left to be added. Recipe notes for when a user makes a recipe and wants to include their thoughts or results of what went well and what did not. The other component is linking the recipes images for a given step, what should the recipe look like at that stage and have the default image just be the recipe image.
- c. GUI
 - i. This portion is about 95% of the way through completion. The remaining components are updating to the new theme that provides a better UI/UX for our users. All screens have been implemented at this point and only minor changes have been planned as we go through testing.
- d. User Accounts
 - i. The user is able to create accounts requiring a password, username, and email address. Currently the user account details are being saved into a JSON file to provide a structure to be inputted into the AWS server.
- e. Community Recipes
 - i. Community recipes are still being seeded into the AWS server. We also still need to have those populate the frontend so a user can see them and then save them to their recipes. Users will be able to upload their own recipes to the community page where they can also read reviews and feedback for their and other users' recipes.
- f. Review/Feedback System
 - i. The database contains a new field that allows for feedback to be provided in the form of a numerical score. In addition, the recipe class was updated to ensure that the recipe class is consistent with the database storing recipes.
- g. Shopping Companion
 - i. The shopping companion is able to grab data related to the products name, price, and price per unit of weight. It is able to take a search query and search through the page to find product information. In addition the companion can get the average price per ounce of a product, because the price on the website and prices at actual retailers can vary drastically.
- h. Admin Backend
 - i. The admins of the website are able to access the user accounts data and created content.
- 7. Discussion (at least a few sentences, ie a paragraph) of the contribution of each team member to the current Milestone:
 - a. Tyler Son: I worked on seeding recipes in the database to give the users a populated display in the database. I also worked on creating the backend components for users to provide feedback on recipes. I also found how to give users their own keys upon account creation and what components will be needed for the shopping companion tool.

- b. David Tran: I worked on creating the framework for account creation. The user is able to create accounts that require a username and password to log in to the application, and the system prevents accounts that do not meet the standard criteria for accounts. I also worked on developing a shopping companion that grabs the prices of items from Walmart, and provides an expected/average price for the item the user wishes to buy.
- c. Chris Nederhoed: I worked on finishing the Inventory and recipe modules. I also began constructing the nutritional macro calculator we are going to need for the meal planner and recipe pages. I completed designing and implementing the frontend, and I'm now in the process of updating the theme of the UI. Progress on the meal planner has been slower this milestone with the goal of completion next milestone.

8. Plan for the next Milestone (task matrix)

Task	Tyler Son	David Tran	Chris Nederhoed
Meal Planner			Recipe Sharing to Other users/non-users, Recipe Ingredients added to needed ingredient list, Recipe ingredients removed from list if updated, Recipe ingredients removed from inventory if made, Nutrition Calculator, Daily Meal Summary
Recipe Ingredient Suggestions and Substitutions			Flavor & Texture Matrix, Ingredient data, substitution logic, add-on suggestions, user settings
Notification System		Create a notification system so that users will be pinged if their content is removed.	
Admin Portal		Allow admins to access user created data, check if it violates TOS	

Admin Backend	Link accounts to database, provide users keys, ensure overall security for all users		
Shopping Companion		Have the tool be able to grab more urls from other retailers to pull up prices, integrate it with the existing applications,	
New User Guide // Tutorial Onboarding			System walkthrough, Progress Indicators, FAQ, Examples
Conduct Evaluation of the System	Ensure all components are functional, ensure all components are secure		
Senior Design Showcase Poster	Develop a poster displaying the work done, shows how the work was done		

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. Meal Planner

- i. We still have a few things left to add such as taking the ingredients of planned meals and adding to a list of ingredients they needed based on the ingredients they have. Removing ingredients when they cook a meal. Showing a nutritional summary of the ingredients for a recipe. One challenge we still are working on is how to share the meals and lists with non users.

b. Recipe Ingredient Suggestions and Substitutions

- i. Ingredient substitutions and add-ons based on a "flavor matrix". Just like there is a color wheel with contrasting colors and hues, there is also a flavor matrix like salty often pairs well with sweet, or crunchy and creamy. Recipes can show addons to a recipe such as adding nuts to add texture and a salty component or a drizzle of oil to add depth of flavor. Perhaps a user wants to make a recipe that

calls for milk but they are lactose intolerant or do not have the type indicated, if the recipe allows for a different type of milk or plant-based milk, then the substitution would be shown. A recipe will also show if a substitution like this is not possible for a science reason such as with making cheese where you have to have a very specific type of milk. This would allow recipes in the community section to show ingredient substitutions and other suggestions to enhance the meal.

- c. Notification System
 - i. Create a notification system for users to know if their user created content has been removed due to TOS violations.
 - d. Admin Portal
 - i. Provide an interface for the administrators of the app to manage user accounts and user created content. Should allow the admins to look at user content and choose whether to notify the user if there is a suspected TOS violation.
 - e. Admin Backend
 - i. Link the accounts to the database. After the user creates their new account, the account will be added to the database as a user and they will be given a policy that allows them to create their own recipes and to edit their own recipes. They will not be given the ability to delete recipes unless it is their own recipe or if the recipe was reported and deemed to be inappropriate.
 - f. Shopping Companion
 - i. Add more retailer urls to grab prices from. Integrate its functionality into the existing application
 - g. New User Guide // Tutorial Onboarding
 - i. Create an onboarding process so that new users are not overwhelmed at how to use the system. Based on the results we will get from having some people try our application then we will look where users struggle and try to make it easier to complete the task but also include that in the tutorial process. We also want to include things like a FAQ and a new user guide to better solve issues as they happen.
 - h. Conduct Evaluation of the System
 - i. Evaluate the system so that all the functionalities that are added to the system are working correctly. Ensure that the output being displayed on the system is accurate to what was expected.
 - i. Senior Design Showcase Poster
 - i. Create a poster that will be used during the showcase. The poster will showcase what was done. The poster will showcase how the project was being developed.
10. Date(s) of meeting(s) with Client during the current milestone: 2/18/2025
11. Client feedback on the current milestone
- a. ... (if Client and Faculty Advisor are the same, write "see Faculty Advisor Feedback below")

b. ...

12. Date(s) of meeting(s) with Faculty Advisor during the current milestone: 2/18/25

13. Faculty Advisor feedback on each task for the current Milestone

Since only one team member came to discuss his portion of the work, he was encouraged to coordinate with each team member to plan a convenient time for more members to meet to discuss the team's progress. Teammates may prepare demo videos in cases where they cannot meet.

14. Faculty Advisor Signature: _____ Date: _____

----- 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: _____