

### **Research Databases: Chris**

Which database services did we look into?

- Node.js
- Express.js
- Django

Which database service will be the one we will use to create Pantry?

- Node.js

Why are we going to use this database service? (at least 3 reasons)

- Node offers cross-platform compatibility and has many existing integrations with React.
- It is the most highly recommended from the multiple lists of best React backends consulted.
- It does not require any data buffering to output the data to the React app.
- It's easier to learn and has a comparatively simpler implementation than the other frameworks.

### **Create Activity/Use Case Diagrams: Ian**

Create an activity diagram that showcases various aspects of Pantry and shows how they are interconnected.

Create use case diagrams for different types of users.

### **Look into similar web apps (find inspiration): Michael**

What similarities do these apps have with ours?

EatThisMuch:

- Keeps track of what food is in your pantry
- stores recipes with ingredient list and instructions for preparation
- Generates grocery list based on meal plan

Tastes Better from Scratch:

- Meal plans with grocery list (theres is premade not generated)
- finds recipes you have ingredients for.

KitchenPal:

- tracks food in pantry

What makes our idea distinct?

Our target demographic (?)

Do we want to focus on inventory management (?)

What features do these apps have that we want to add to ours?

EatThisMuch:

- can generate a daily/weekly/monthly meal plan based on metrics(total calories or type of diet or even metrics about yourself like height and weight) given by the user.

- Planning meals for weight loss

KitchenPal:

- tracks expiration dates
- recipes are tagged with time to prepare, difficulty, and diet restrictions they match.
- can add items to your pantry by scanning the barcode with your phone

PantryCheck:

- tracks prices of items on grocery list
- gives notifications if food will expire soon

MealBoard:

- keeps track of where you buy various things with their price

### **Implement Database Functionality: Chris**

Have uploaded data (recipes and ingredients) be stored on a database so it can be viewed from various platforms.

### **Store and Display Recipes: Carla**

- Add the ability to upload recipes to the app.
- Create a page to view all uploaded recipes.
- Display recipes by category.

### **Create data structure/class for Recipes: Chris/Max**

Decide on how to categorize recipes and what subcategories can be assigned to them.  
Create a recipes class that holds ingredients, meal category (vegetarian, vegan, etc.), meal type (breakfast, lunch, dinner).

### **Research APIs that could be used for our project: Max**

Spoonacular API

<https://spoonacular.com/food-api>

We can use Spoonacular to supplement our app's manual recipe input with the ability to search for recipes based on our current ingredients. Spoonacular also has the useful ability to filter searched recipes based on common allergens, such as dairy, eggs, nuts, soy, wheat, etc. Spoonacular also has meal planning functionality that allows the user to plan meals for the week and calculates daily nutritional information. Spoonacular can then create a shopping list based on the user's meal plan. (Spoonacular documentation states that users can then order their shopping list to be picked up from an online grocer, but I'm not sure how that's been implemented or what grocers are offered (preferably Walmart))

Walmart Grocery API

<https://www.walmart.io/docs/opd/>

"Access Walmart's taxonomy and catalog, or, a direct item-to-product mapping service, to identify items sold on Walmart to which the 3rd party can map its user's intent. Refine the search based on the store the user wants their items to be picked up from. Identify the most up to date pricing and availability of an item that has been matched, based on the store input."

Need to set up an account with Impact Radius, Walmart's affiliate tracking infrastructure, and then request for a Walmart business manager to reach out and see if our 'company' meets the criteria of Walmart's private partnership network.

**Design a mockup UI for each page of the app (desktop) Carla**

Sketch out a visual representation of each page of the app (home page, ingredients, recipes, grocery list, weekly schedule).

Verify that each page is user friendly.