



# HoMePIT Updates

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# Outline

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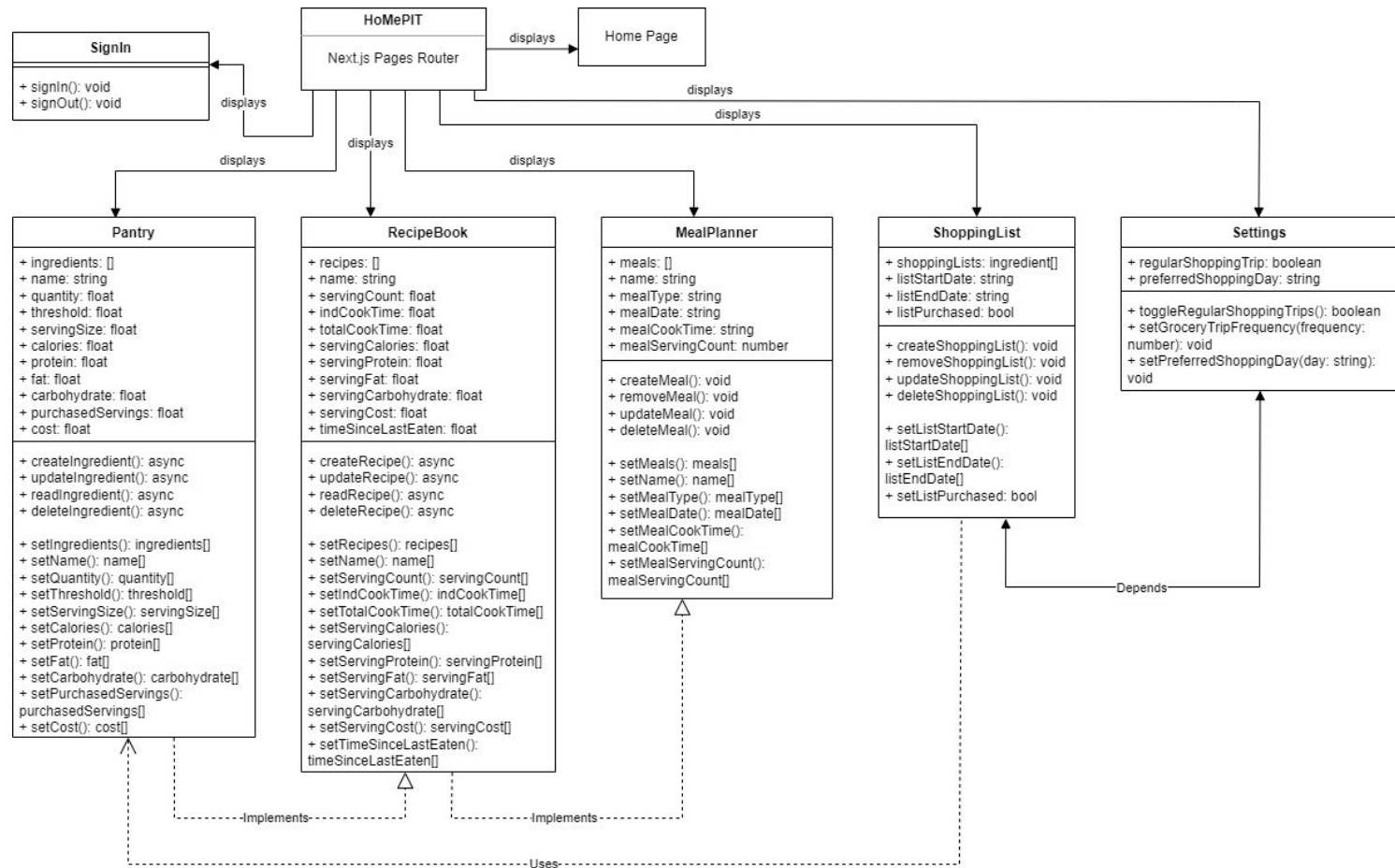
# Current Changes, App

- Early on, it was decided to switch from Replit to VSCode as our primary IDE due to familiarity and freedom of development.
  - Using the Next.js template with Replit forces the user to use TypeScript, which we did not want.
  - Replit seemed to complicate things such as version control, user authentication, and using Supabase.
- Replit will still be used for hosting purposes, but only for the demo.

## Current Changes, App pt.2

- Using React's `useState()` hook simplified assigning attributes to ingredients.
- The Pantry, Recipes, and Meal pages were overhauled to have essentially the same format, with state hooks, CRUD methods, and the HTML display.

```
9 export default function Pantry() {
10
11   const [ingredients, setIngredients] = React.useState([]);
12   const [name, setName] = React.useState('');
13   const [quantity, setQuantity] = React.useState();
14   const [threshold, setThreshold] = React.useState();
15   const [servingSize, setServingSize] = React.useState();
16   const [calories, setCalories] = React.useState();
17   const [protein, setProtein] = React.useState();
18   const [fat, setFat] = React.useState();
19   const [carbohydrate, setCarbohydrate] = React.useState();
20   const [purchasedServings, setPurchasedServings] = React.useState();
21   const [cost, setCost] = React.useState();
22
23   const createIngredient = async (e) => {
24     e.preventDefault();
25     try {
26       const { data } = await supabase
27         .from('Ingredients')
28         .insert([
29           {
30             ing_name: name,
31             ing_qnt: quantity,
32             ing_threshold_qnt: threshold,
33             ing_serv_qnt: servingSize,
34             ing_serv_cal: calories,
35             ing_serv_prot: protein,
36             ing_serv_fat: fat,
37             ing_serv_carb: carbohydrate,
38             ing_purchase_serv_cnt: purchasedServings,
39             ing_purchase_cost: cost,
40           }
41         ]);
42       return data;
43     } catch (error) {
44       console.error(error);
45     }
46   };
```

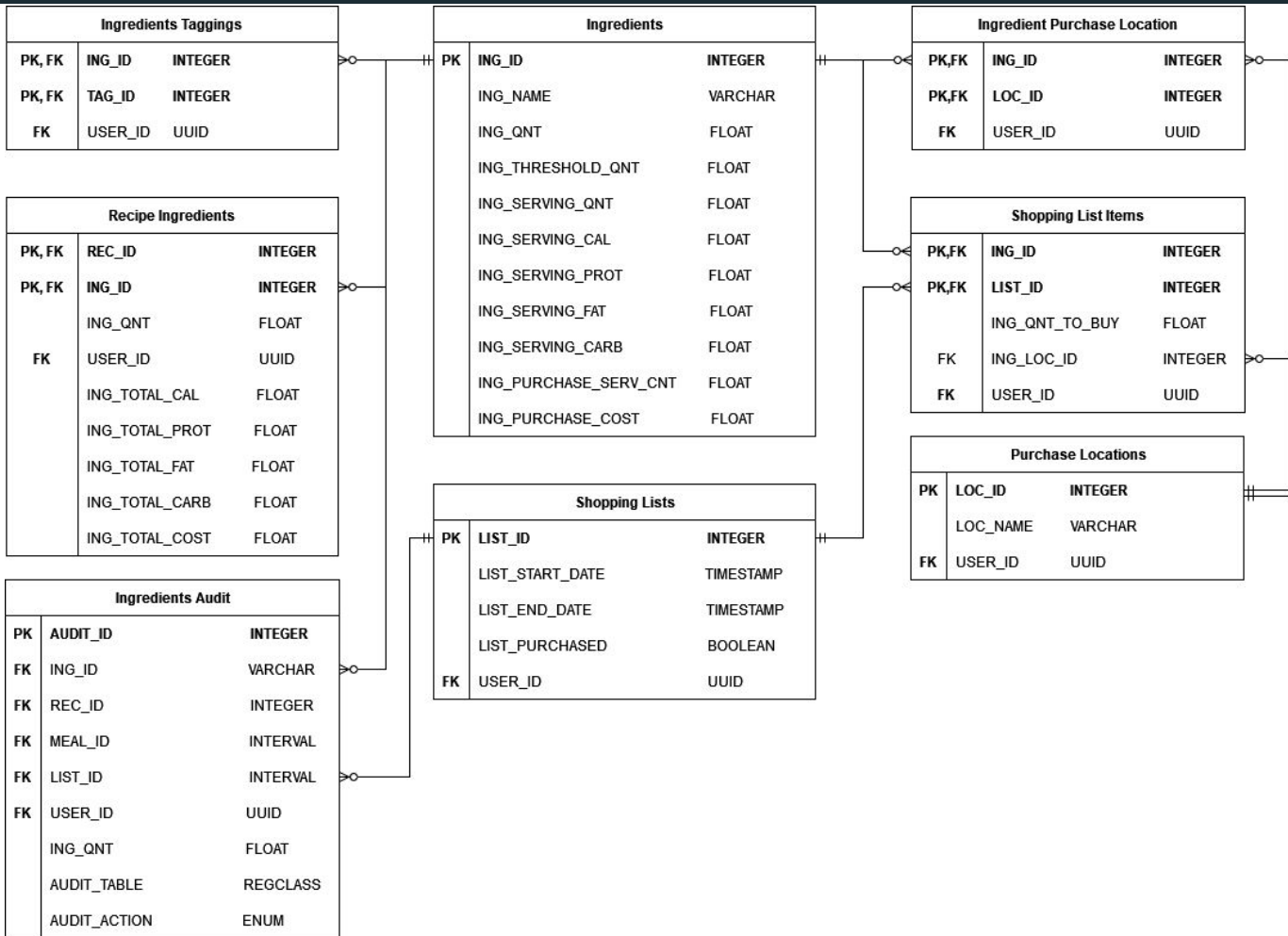


# Current Changes, Database

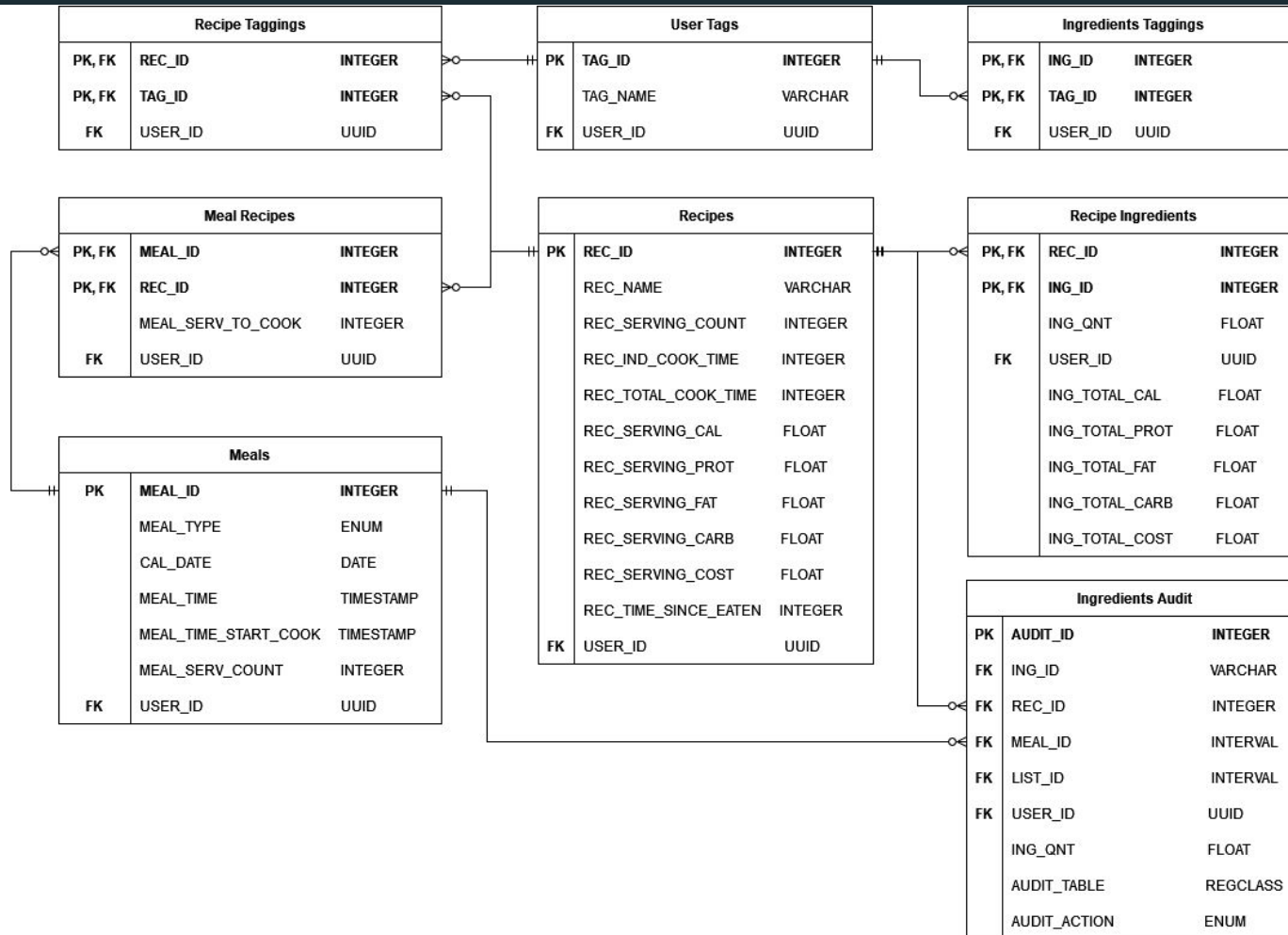
- User ID added to every table
- Row Level Security policies added to every table
  - Only the owner of info can interact with it
- Added nutrient stats & cost to “Recipe Ingredients”
- “Recipe” nutrient stats & cost update on trigger
- Added “Ingredient Audit” table and related functions

## Current Changes, Database pt. 2

- Cutting substitution, sub-recipe, leftovers, and expiry date functionality
- Removed “Units” table
- Likely cutting shopping list purchase location optimization
- May cut purchase location functionality overall

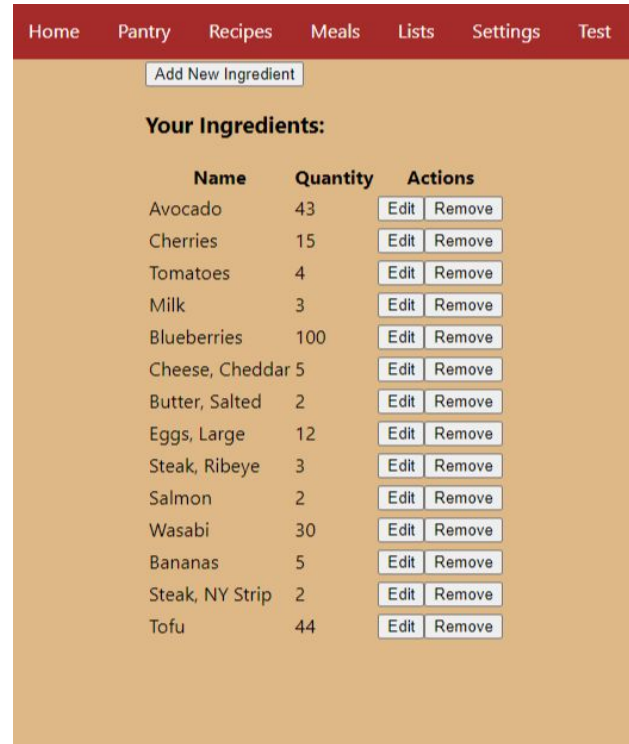






# Completed Accomplishments, App

- Authentication (almost) successfully implemented.
- User can create, update, and delete ingredients, recipes, and meals, and see those changes reflected in the page they are on.
- Site is responsive and updates accordingly, given changes in the database.



The screenshot shows a web application interface with a dark red navigation bar at the top containing links: Home, Pantry, Recipes, Meals, Lists, Settings, and Test. Below the navigation bar is a light orange background area. At the top of this area is a button labeled 'Add New Ingredient'. Below the button is the heading 'Your Ingredients:'. Underneath the heading is a table with three columns: 'Name', 'Quantity', and 'Actions'. The table lists 15 ingredients with their respective quantities and 'Edit' and 'Remove' buttons for each.

Name	Quantity	Actions
Avocado	43	<button>Edit</button> <button>Remove</button>
Cherries	15	<button>Edit</button> <button>Remove</button>
Tomatoes	4	<button>Edit</button> <button>Remove</button>
Milk	3	<button>Edit</button> <button>Remove</button>
Blueberries	100	<button>Edit</button> <button>Remove</button>
Cheese, Cheddar	5	<button>Edit</button> <button>Remove</button>
Butter, Salted	2	<button>Edit</button> <button>Remove</button>
Eggs, Large	12	<button>Edit</button> <button>Remove</button>
Steak, Ribeye	3	<button>Edit</button> <button>Remove</button>
Salmon	2	<button>Edit</button> <button>Remove</button>
Wasabi	30	<button>Edit</button> <button>Remove</button>
Bananas	5	<button>Edit</button> <button>Remove</button>
Steak, NY Strip	2	<button>Edit</button> <button>Remove</button>
Tofu	44	<button>Edit</button> <button>Remove</button>

# Completed Accomplishments, Database

- General database tables added
- “Recipe” and “Recipe Information” automatically update nutrition & cost info
  - Caused by certain actions in “Ingredients”, “Recipe Ingredients”, and “Recipes”
- “Ingredients Audit” table added

# Partially Complete, App

- User authentication works, however after sign in the user is incapable of altering the contents of the database.
- Users can input data for ingredients/recipes/meals, but that data is unique to the instance of that object.
  - i.e. if the user were to create two ingredients with the same attributes, they would be represented as separate instead of being the same.
- A calendar component has been implemented for the Meal Planner, but has no functionality.

# Partially Complete, Database

- Some “Ingredients Audit” auditing functions added
  - Can be triggered by actions on most tables
    - “Ingredients”, “Recipe Ingredients”, “Recipes”, “Meal Recipes”, “Meals”, “Shopping List Ingredients”, and “Shopping Lists”
    - Each trigger has unique potential impact - not generalizable

# Still to be Implemented, App

- Data validation has yet to be implemented in the frontend.
  - If the user were to create an ingredient named “Tomatoes” and set the quantity as “Four”, this would result in an error in the console but not to the user.
- Unit conversion has yet to be implemented, which is a core component.
  - Inputting “5” as the user’s quantity of Salmon does not make sense. “5 lbs” would be more applicable.
- The entire Meal Planning component needs to be implemented, along with cost and nutrition data tracking.
- The Shopping List component has not yet been implemented, along with the associated Settings page.

# Still to be Implemented, Database

- Shopping List generation
- Shopping List updating
- Shopping List purchase location optimization
  - Assuming this doesn't get cut due to time
- General database access utility functions

# Issues

- Minor / major: shopping list functionality may be cut due to time constraints.
  - First to be cut: purchase location optimization
  - Second: overall purchase location functionality
- Minor: cutting of substitution, sub-recipes, leftovers, and expiry dates
  - Impacts quality of life, not core functions
- Minor: issues with some css elements
  - Most borders are not appearing
  - The alignment of content is off on some pages