

## Legend

Risk level (R)

High - H, medium - M, low - L

Story Point (SP)

1-5 (easiest to hardest)

(The following backlog also added to GitHub in a project titled “Product Backlog”)

### **Ingredient Storage (Want this done by part 2/3)**

#### **1. US 01.01.01 (R: M, SP: 2)**

- a. As a meal planner, I want to add an ingredient, with a brief description, best before date, location, amount, unit, and ingredient category.

#### **2. US 01.02.01 (R: L, SP: 1)**

- a. As a meal planner, I want to view an ingredient and its details.

#### **3. US 01.03.01 (R: M, SP: 2)**

- a. As a meal planner, I want to edit the details of an ingredient.

#### **4. US 01.04.01 (R: M, SP: 2)**

- a. As a meal planner, I want to delete an ingredient.

#### **5. US 01.05.01 (R: L, SP: 1)**

- a. As a meal planner, I want to see a list of my ingredients.

#### **6. US 01.06.01 (R: M, SP: 2)**

- a. As a meal planner, I want to sort the list of ingredients by description, best before date, location, and ingredient category.

### **Recipes - Needs Ingredient Storage (Want this done by part 2/3)**

#### **1. US 02.01.01: (R: M, SP: 3)**

- a. As a meal planner, I want to add a recipe, with title, preparation time, number of servings, recipe category, comments, photograph, and list of ingredients.

#### **2. US 02.02.01 (R: M, SP: 3)**

- a. As a meal planner, I want to add an ingredient to a recipe, with a brief description, amount, unit, and ingredient category.

#### **3. US 02.03.01 (R: M, SP: 3)**

- a. As a meal planner, I want to delete an ingredient from a recipe.

4. US 02.04.01 (R: L, SP: 2)
  - a. As a meal planner, I want to view a recipe and its details.
5. US 02.05.01 (R: M, SP: 2)
  - a. As a meal planner, I want to edit the details of a recipe, including the ingredients.
6. US 02.06.01 (R: M, SP: 2)
  - a. As a meal planner, I want to delete a recipe.
7. US 02.07.01 (R: L, SP: 2)
  - a. As a meal planner, I want to see a list of my recipes.
8. US 02.08.01 (R: M, SP: 3)
  - a. As a meal planner, I want to sort the list of recipes by title, preparation time, number of servings, or recipe category.

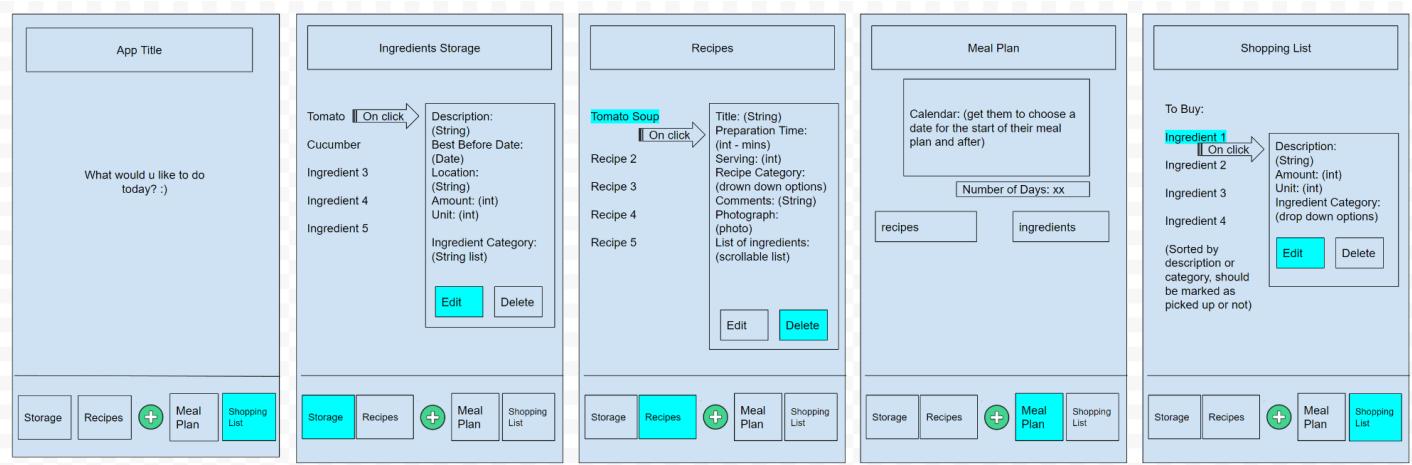
### **Meal Plan - Needs Ingredient Storage, Recipes**

1. US 03.01.01 (R: H, SP: 5)
  - a. As a meal planner, I want to make a meal plan, for several upcoming days of meals, based on choosing from my recipes or individually from my ingredient storage.
2. US 03.02.01 (R: H, SP: 3-4)
  - a. As a meal planner, I want to scale my recipes to adjust the number of servings for the meal plan.

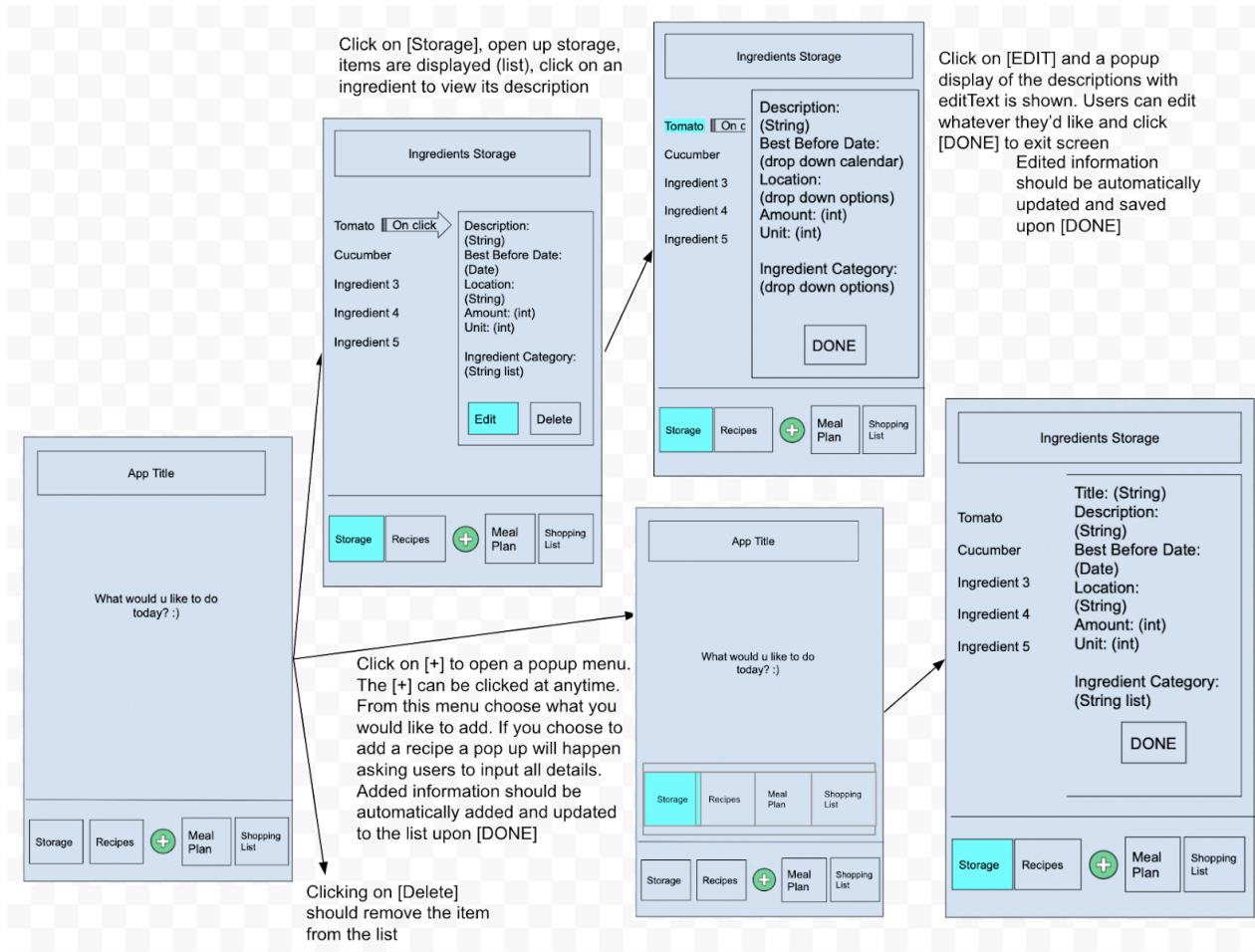
### **Shopping List - Needs Meal Plan and Ingredient Storage**

1. US 04.01.01 (R: L, SP: 3)
  - a. As a meal planner, I want to view a shopping list of ingredients that I need to buy, based on my ingredient storage and meal plan.
2. US 04.02.01 (R: L, SP: 2)
  - a. As a meal planner, I want each ingredient on the shopping list to show its description, amount, unit, and ingredient category.
3. US 04.03.01 (R: M, SP: 3)
  - a. As a meal planner, I want to sort the shopping list of ingredients by description or category.
4. US 04.04.01 (R: L, SP: 3)
  - a. As a meal planner, I want to note that I have picked up an ingredient on the shopping list.
5. US 04.05.01 (R: H, SP: 4)
  - a. As a meal planner, I want to add ingredients I have picked up to my ingredient storage, reminding me to complete details like location, actual amount, and unit.

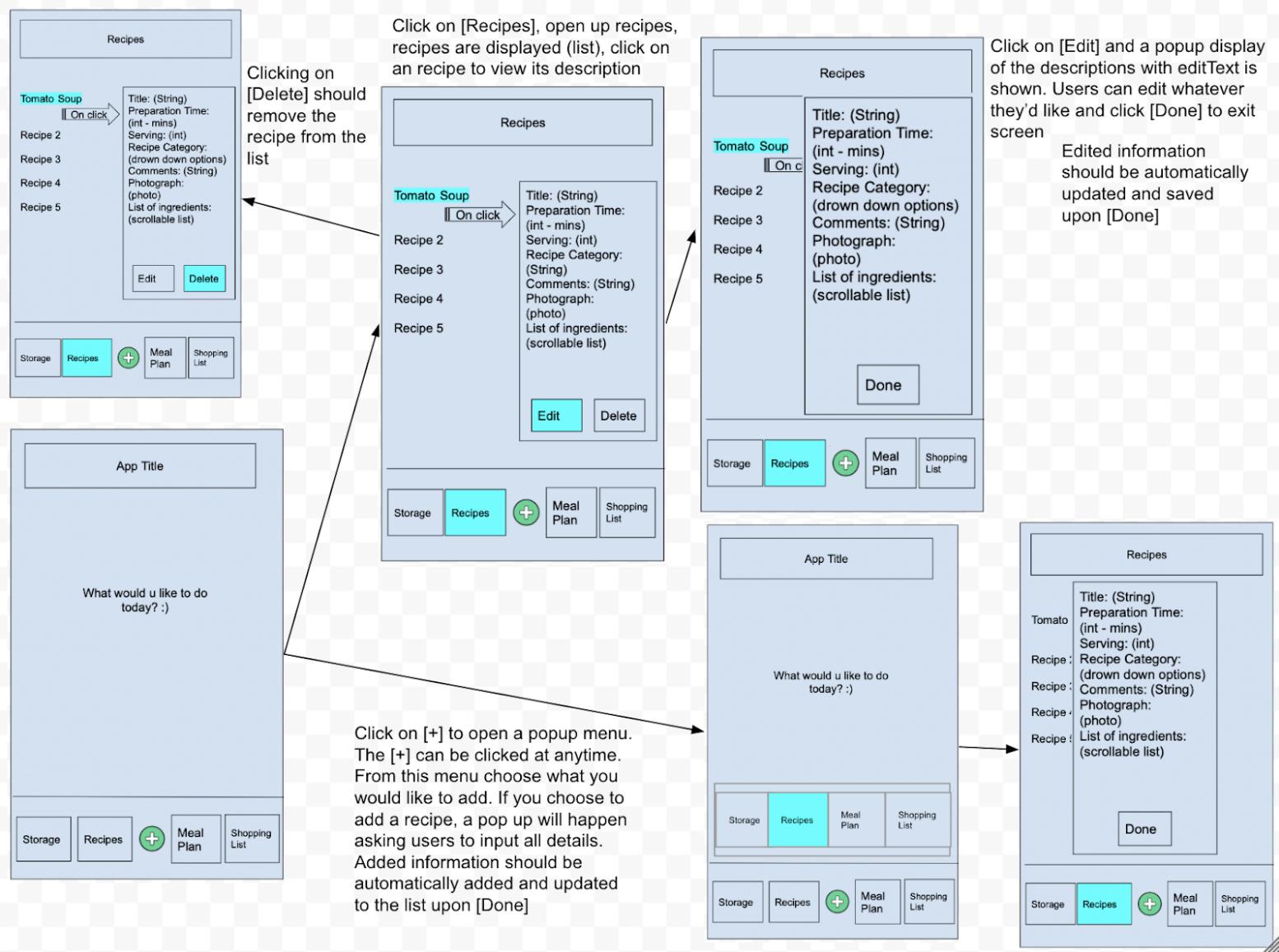
## UI Mockup



## Ingredient Storage



## Recipes

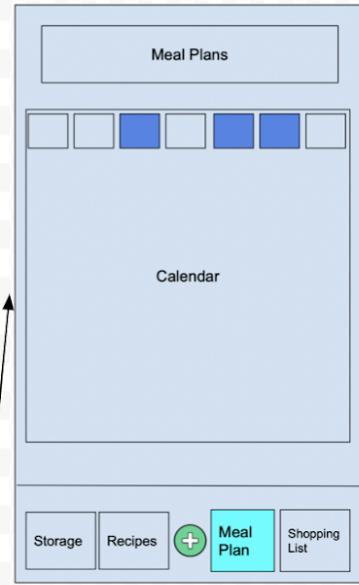


## Meal Plan

Upon click [Meal Plan] or [+], a Calendar will be opened up. Dates with meals already planned will be highlighted (dark blue in diagram)



If [+] is clicked, and [Meal plan] is clicked, meal plan will open up



Note: Meal plan on [+] would be unclickable if the Meal Plan is already open



If a date has a plan already, then description is popped up



If a date without a plan already is clicked, option to create meal plan pops up



If clicked [EDIT] or [recipes] or [ingredients], respective list will pop up. [DELETE] will clear that date of all meal plans. If Recipes is selected, a serving size (int) will be asked for

## Shopping List

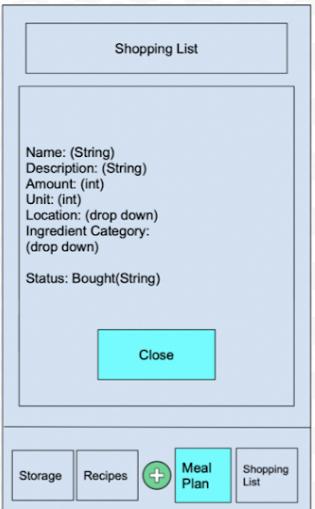
Click on [Shopping List], open up Shopping List and display ingredients (list), click on ingredient to view description. ✓ means bought, ✗ means not bought yet



Click on [+] and then [Shopping List] to open up an add page to be able to add an ingredient manually (in addition to ingredients from meal plan)



If unbought ingredient is selected, popup description is shown, option to change to bought is given



If already bought ingredient is selected, popup description is shown



Note: [Clean List] will clear all bought ingredients still on the list

If [BOUGHT] is clicked, user confirms correct information and selects storage location before adding to storage, Status also self updates to "Bought" and ✓ is displayed next to the list ingredient

## **Classes+ (CRC Cards Included in separate pdf)**

- HomeScreen
  - Responsibilities:
    - Displays welcome message/logo
- IngredientStorageActivity
  - Responsibilities:
    - Add stored ingredients
    - Edit stored ingredients
    - Remove stored ingredients
    - View ingredient information
  - Collaborators:
    - IngredientStorageFrag
    - RecipesActivity
    - MealPlanActivity
    - ShoppingListActivity
    - foodItem
    - AddMealPlanActivity
- RecipesActivity
  - Responsibilities:
    - Add new recipes
    - Edit existing recipes
    - Remove recipes
  - Collaborators:
    - RecipesFrag
    - IngredientStorageActivity
    - MealPlanActivity
    - foodItem
    - AddMealPlanActivity
- MealPlanActivity
  - Responsibilities:
    - Create meal plan for a day
    - Edit existing meal plans
    - Present meal plans to the user
  - Collaborators:
    - MealPlanFrag
    - IngredientStorageActivity
    - RecipesActivity
    - ShoppingListActivity
    - AddMealPlanActivity
    - foodItem
- AddMealPlanActivity
  - Responsibilities:
    - Allows user to add ingredient(s) to a meal plan
    - Allows user to add recipe(s) to a meal plan
    - Allows user to scale added items to a certain number of servings
  - Collaborators:
    - MealPlanActivity
    - IngredientStorageActivity
    - RecipesActivity
    - foodItem
- ShoppingListActivity
  - Responsibilities:

- Present user with ingredients missing from meal plan
  - Allow user to add obtained ingredients to storage
- Collaborators:
  - ShoppingListFrag
  - IngredientStorageActivity
  - MealPlanActivity
  - foodItem
- IngredientStorageFrag
  - Responsibilities:
    - Prompts for information to add ingredient
    - Prompts for edits to existing information
    - Displays current information about a suspected ingredient
  - Collaborators:
    - IngredientStorageActivity
    - foodItem
- RecipesFrag
  - Responsibilities:
    - Prompts for information to add new recipe
    - Prompts for edits to existing recipes
    - Displays current information about a selected recipe
  - Collaborators:
    - RecipesActivity
    - foodItem
- foodItem
  - Responsibilities:
    - Store fields relevant to food
    - Allow access to information about a given food
    - Provides access to modify information about a given food
  - Collaborators:
    - IngredientStorageActivity
    - RecipesActivity
    - MealPlanActivity
    - AddMealPlanActivity
    - ShoppingListActivity
    - IngredientStorageFrag
    - RecipesFrag
    - MealPlanFrag
    - ShoppingListFrag

## Interfaces (TBD)