### IngredientStorageActivity

Collaborators

Collaborators

ShoppingListController

IngredientStorageActivity

MealPlanActivity

- BasicIngredientListController

ShoppingListActivity

RecipeActivity

MealPlanActivity

#### - An activity that displays the visual components of the IngredientStorage of the MealPlanner

Displays the list of ingredients that are in the IngredientStorage Contains a button to sort ingredients by description or best before

- Communicates with the ShoppingList to notify when an item has been

- date or location or ingredient category - Allows adding of a food (uses a fragment)
- Able to click on an individual ingredient to view/edit or delete it
- Allows navigation to the other 3 activities
- Communicates with the Firebase to save or store ingredientStorage

## ShoppingListActivity

### Responsibilities

- Displays the Meal Planner's shopping list
- Able to press buttons to sort the ingredients by description or - Meal Planner is able to note that an indivdiual ingredient has been
- When an ingredient has been picked up, display a button that sends Meal Planner to add the Ingredient to IngredientStorage
- Display each ingredient and it's desciption, amount, unit, and
- · Allow visual updating og the ShoppingList when required
- Allow navigation to the other 3 actityities
- Communicates with FireBase to save or access the ShoppingList
- Able to communicate changes to/from ShoppingListController

### - Allows editing of an Ingredient

- Allows creation of an Ingredient - Returns a created ingredient

- Can create a copy of an Ingredient object

- Allows comparing ingredients - Allows accessing of the Ingredient details

#### Collaborators - Ingredient

IngredientController

#### Responsibilities - Represents an individual ingredient

- BasicIngredientListController - MealPlanController

## Sub-Class: ShoppingListController Sub-Class: ShoppingListController

- Able to create a BasicIngredientList - Able to add Ingredients to the BasicIngredientList
- Able to delete Ingredients in the BasicIngredientList - Able to access elements of the list and their data
- Allows displaying of this list
- Able to sort the list based on the Ingredient parameters

### Collaborators

- IngredientController - BasicIngredientList
- RecipeController
- MealPlanController - IngredientStorageActivity

## SuperClass:

### ShoppingListController BasicIngredientListController

- In addition to what the BasicIngredientListController implements, this | ShoppingListActivity should implement some extra features
- Add a note associated with an Ingredient that it has been picked up | BasicIngredientListController (superclass) Adds ingredients with certain fields left empty
- Able to view/access certain fields of the ShoppingList (no BestBeforeDate & Location)
- Allows automatic updating of the list based on MealPlan and IngredientStorage

- Allows an ArrayList containing notes for each element - Allows editing of the note

## - RecipeController

## SuperClass: BasicIngredientList

- BasicIngredientList
- Ingredient
- ShoppingListController

### Recipe

#### Responsibilities

photograph, list of ingredients

- Implements getter/setters for recipe fields

- Represents an individual recipe - Has a title, preparation time, # of servings, category, comments,
- IngredientController BasicIngredientList
- ShoppingList

Collaborators

## Sub-Classes: ShoppingList

#### Collaborators

- Ingredient

- Contains a list of ingredients

- Has a description, best before date, location, amount, unit, and

- May also just have a description, amount, unit, and category

- Allows accessing of internal data through getters/setters

- Allows adding or delecting elements in the list
- Able to access list data

Responsibilities

Responsibilities

- Allows sorting of the list

ShoppingList

BasicIngredientList

Ingredient

- ShoppingList (subclass)
  - MealPlan - MealPlanController

- BasicIngredientListController

- Collaborators

## RecipeList

### Responsibilities

- Contain a list of recipes - Allows adding or deleting of recipes
- Can access number of recipes

### MealPlan

- Represents a meal plan for several upcoming days of meals
  - Contains a list of recipes and a list of ingredients

#### Collaborators - MealPlanController - BasicIngredientList

RecipeList

Collaborators

RecipeList

Collaborators

- Recipe

- MealPlan

- RecipeListController

- MealPlanController

- RecipeController

- BasicIngredientList

## Collaborators

MealPlanController

RecipeController

### Responsibilities

for the MealPlan

Able to scale all recipe servings

Able to view all recipe + ingredient info

Responsibilities

- Can create a list of recipes
- Be able to add/delete recipes
- Be able to sort recipes by titles, preparation time, # of servings, or
- Be able to scale all recipes in the list
- Can generate all Ingredients that are needed for a list of recipes

- Can create a meal plan and creates a RecipeList and IngredientList

- Allows adding of Ingredients and Recipes to the MealPlan

- Can calculate all the ingredients needed for a mealplan

- Able to delete ingredients/recipes from the MealPlan

## Collaborators - Recipe

- Allows creation of a Recipe
- Able to add an image to the recipe
- Able to add a list of ingredients to the recipe
- Allows editing of a Recipe Allows comparing of Recipes
  - Be able to scale the # of servings for a recipe Allows creation of copies of recipe objects

#### BasicIngredientListController - BasicIngredientList - MealPlanController Allows accessing of the Recipe details (/viewing recipes)

- RecipeListController

- RecipeActivity

Collaborators

RecipeList

- BasicIngredientListController

BasicIngredientList

- RecipeListController

MealPlanActivity

ShoppingListController

- MealPlanActivity

### RecipeListController

- RecipeList - MealPlanController
- Allows duplication of a recipe or a list of recipes
- Be able to view the entire list of recipes
- Be able to view or edit an individual recipe
- recipe category

# - Allows navigation to the 3 other Activities

MealPlanActivity

RecipeActivity

### Responsibilities

- Display the meal plan and the recipe and ingredient info
- Allows scaling of all recipes in the MealPlan
- Can add/delete Ingredients and Recipes - Communicates with FireBase to save/access MealPlan
- Allows navigation to the other 3 activities

## Collaborators

- RecipeListController

MealPlanViewActivity

ShoppingListActivity

IngredientStorageActivity

- Contains a list of the MealPlanners recipes
- Displays the list of recipes

Responsibilities

- User is able to tap to add a recipe
- User can delete or edit a recipe - Can display details for a recipe
- Contains GUI elements that enable sorting of the recipe list - Needs to update the visuals whenever there is a change in the
- Be able to communicate with FireBase to save or access the recipe

### Collaborators

- MealPlanController
- RecipeActivity

- ShoppingListActivity - IngredientStorageActivity