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| Ingredient | |
| Store description of an ingredient  Store the amount of an ingredient  Store the unit of an ingredient  Store the category of an ingredient | StoredIngredient  MealPlan  ShoppingList  Recipe  DatabaseManager |

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| StoredIngredient | |
| \*\*Ingredient Responsibilities\*\*  Store date of a stored ingredient  Store location of a stored ingredient | Ingredient  DatabaseManager |

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| MealPlanActivity | |
| Store recipes in meal plan  Store ingredients in meal plan  Allow recipes to be added/removed  Allow ingredients to be added/removed | Ingredient  Recipe  DatabaseManager |

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| ShopListActivity | |
| Store recipes in meal plan  Store ingredients in meal plan  Display all ingredients from meal plan recipes and meal plan ingredients | Ingredient  Recipe  DatabaseManager  StoredIngredient  MealPlan |

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| DatabaseManager | |
| Store reference to database  Store reference to collection in database  Allow addition/removal/retrieval of ingredients from database  Allow addition/removal/retrieval of recipes from database  Allow addition/removal/retrieval of meal plans from database  Allow addition/removal/retrieval of categories from database | Ingredient  Recipe  StoredIngredient  ShoppingList  MealPlan |

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| AddIngredientActivity | |
| Display multiple editable text fields for user input  Clicking the Submit button stores all the information from the user into an Ingredient | Ingredient  StoredIngredient |

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| AddIngredientMealPlanActivity | |
| Allows user to select pre-existing ingredients  Allows user to add ingredients  Prompts the user for the amount needed  Stores information in a meal plan | MealPlanActivity  AddIngredientActivity  Recipe  Ingredients |

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| AddOptionFragment | |
| Allows users to create new options for category, location, or unit | AddIngredientActivity |

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| AddRecipeActivity | |
| Display multiple editable text fields for user input  Allows user to take a picture to attach to the recipe  Stores inputted user data into a Recipe | Recipe  RecipeListActivity  MealPlanActivity |

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| AddRecipeMealPlanActivity | |
| Allows user to select recipes  Allows user to add recipes  Allows user to input serving size  Stores inputted user data | Recipe  AddRecipeActivity  Ingredients |

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| EditIngredientInRecipeActivity | |
| Allows user to edit details of Ingredients  Allows user to save details  Allows user to delete Ingredients | Ingredients  StoredIngredients  AddIngredientActivity |

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| IngredientListActivity | |
| Displays a list of ingredients  Allows user to select ingredients to view details  Allows user to sort by options  Allows user to add Ingredients | Ingredient  StoredIngredient  AddIngredientActivity |

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| MainMenuActivity | |
| Allows user to navigate to different activities | RecipeListActivity  IngredientListActivity  MealPlanActivity  ShopListActivity |

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| MealPlanActivity | |
| Allows user to add ingredients to a list of ingredients  Allows user to add recipes to a list of recipes  Allows user to input number of days for meal preparation  Allows user to choose meal plan | StoredIngredient  Recipe |

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| Recipe | |
| Contains attributes of a recipe  Contains ingredients | AddRecipeActivity  Recipe  StoredIngredients |

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| RecipeListActivity | |
| Displays a list of recipes  Allows user to add recipes  Allows user to sort recipes | AddRecipeActivity  Recipe |