

# CRC Analysis

«entity» Ingredient	
<ul style="list-style-type: none"><li>Knows the description, best before date, amount, unit cost, location and the category of the ingredient</li></ul>	Ingredient Storage Repository

«entity» Meal Plan	
<ul style="list-style-type: none"><li>meal plan title</li><li>records meal plan date</li><li>recipies used in the meal plan</li><li>other ingredients used in the meal plan</li></ul>	<ul style="list-style-type: none"><li>Meal Plan Repository</li><li>Ingredient</li></ul>

«entity» Recipe	
<ul style="list-style-type: none"><li>records title</li><li>records serving size</li><li>records preparation time</li><li>records image hyperlink</li><li>records category</li><li>ingredients required</li><li>records comments</li><li>records description</li></ul>	<ul style="list-style-type: none"><li>Meal Plan Repository</li><li>Ingredients</li></ul>

IngredientStorageRepository	
<ul style="list-style-type: none"><li>Keeps track of ingredients added by the user</li><li>modify ingredients in the repository</li><li>delete ingredient from the repository</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Add Ingredient Use Case</li><li>Delete Ingredient Use Case</li><li>Edit Ingredient Use Case</li><li>Get Ingredient Use Case</li><li>Get Ingredient List Use Case</li></ul>

RecipeRepository	
<ul style="list-style-type: none"><li>Keeps track of recipes added by the user</li><li>modify recipes in the repository</li><li>delete recipes from the repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Add Recipe Use Case</li><li>Delete Recipe Use Case</li><li>Edit Recipe Use Case</li><li>Get Recipe Details Use Case</li><li>Get User Recipe List List Use Case</li><li>Remove Ingredient From Recipe Use Case</li></ul>

BoughtIngredientsRepository	
<ul style="list-style-type: none"><li>Keeps track of ingredients that have been bought but have not been added to the storage yet.</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Get Required Ingredients Use Case</li><li>Get Bought Ingredients Use Case</li><li>Add Bought Ingredient Use Case</li><li>Remove Bought Ingredient Use Case</li></ul>

MealPlanRepository	
<ul style="list-style-type: none"><li>Keeps track of meal plans added by the user</li><li>modify meal plans in the repository</li><li>delete meal plans from the repository</li></ul>	<ul style="list-style-type: none"><li>Meal Plan</li><li>Add Meal Plan Use Case</li><li>Delete Meal Plan Use Case</li><li>Edit Meal Plan Use Case</li><li>Get Meal Plan Details Use Case</li><li>Get User Meal Plan List Use Case</li></ul>

AddIngredientUseCase	
<ul style="list-style-type: none"><li>Adds ingredient to the ingredient storage repository</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Ingredient Storage Repository</li></ul>

DeleteIngredientUseCase	
<ul style="list-style-type: none"><li>Deletes existing ingredient in the ingredient storage repository</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Ingredient Storage Repository</li></ul>

EditIngredientUseCase	
<ul style="list-style-type: none"><li>Edits existing ingredient in the ingredient storage repository</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Ingredient Storage Repository</li></ul>

GetIngredientDetailsUseCase	
<ul style="list-style-type: none"><li>Gets existing ingredient details from the ingredient storage repository</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Ingredient Storage Repository</li></ul>

GetIngredientListUseCase	
<ul style="list-style-type: none"><li>Gets all the ingredients in the ingredient storage repository</li></ul>	<ul style="list-style-type: none"><li>Ingredient</li><li>Ingredient Storage Repository</li></ul>

AddRecipeUseCase	
<ul style="list-style-type: none"><li>Adds recipe to the recipes repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Recipe Repository</li></ul>

DeleteRecipeUseCase	
<ul style="list-style-type: none"><li>Deletes existing recipe from the recipes repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Recipe Repository</li></ul>

EditRecipeUseCase	
<ul style="list-style-type: none"><li>Edits existing recipe from the recipes repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Recipe Repository</li></ul>

GetRecipeDetailsUseCase	
<ul style="list-style-type: none"><li>Gets existing recipe details from the recipes repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Recipe Repository</li></ul>

GetUserRecipeListUseCase	
<ul style="list-style-type: none"><li>Gets the recipes added by the user from the recipes repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Recipe Repository</li></ul>

RemoveIngredientFromRecipeUseCase	
<ul style="list-style-type: none"><li>Removes an ingredient from an existing recipe in the recipes repository</li></ul>	<ul style="list-style-type: none"><li>Recipe</li><li>Recipe Repository</li></ul>

GetRequiredIngredientsUseCase	
<ul style="list-style-type: none"><li>Gets the list of ingredients that are missing from the storage but are required by the meal plans and haven't been bought yet.</li></ul>	<ul style="list-style-type: none"><li>Ingredient Storage Repository</li><li>Meal Plan Repository</li><li>Ingredient Repository</li><li>Recipe Repository</li><li>Shopping List Repository</li></ul>

GetBoughtIngredientsUseCase	
<ul style="list-style-type: none"><li>Get ingredients that have been bought but have not been added to storage yet</li></ul>	<ul style="list-style-type: none"><li>Bought Ingredient Repository</li></ul>

AddBoughtIngredientUseCase	
<ul style="list-style-type: none"><li>Adds bought ingredient to bought ingredient repository</li></ul>	<ul style="list-style-type: none"><li>Bought Ingredient Repository</li></ul>

RemoveBoughtIngredientUseCase	
<ul style="list-style-type: none"><li>Remove bought ingredient from bought ingredient repository</li></ul>	<ul style="list-style-type: none"><li>Bought Ingredient Repository</li></ul>

AddMealPlanUseCase	
<ul style="list-style-type: none"><li>Adds meal plan to the meal plan repository</li></ul>	<ul style="list-style-type: none"><li>Meal Plan</li><li>Meal Plan Repository</li></ul>

DeleteMealPlanUseCase	
<ul style="list-style-type: none"><li>Deletes existing meal plan from the meal plan repository</li></ul>	<ul style="list-style-type: none"><li>Meal Plan</li><li>Meal Plan Repository</li></ul>

EditMealPlanUseCase	
<ul style="list-style-type: none"><li>Edit existing meal plan from the meal plan repository</li></ul>	<ul style="list-style-type: none"><li>Meal Plan</li><li>Meal Plan Repository</li></ul>

GetMealPlanDetailsUseCase	
<ul style="list-style-type: none"><li>Gets existing meal plan details from the meal plan repository</li></ul>	<ul style="list-style-type: none"><li>Meal Plan</li><li>Meal Plan Repository</li></ul>

GetUserMealPlanListUseCase	
<ul style="list-style-type: none"><li>Gets meal plans added by the user from the meal plan repository</li></ul>	<ul style="list-style-type: none"><li>Meal Plan</li><li>Meal Plan Repository</li></ul>

IngredientListViewModel	
<ul style="list-style-type: none"><li>takes care of mapping the ingredient storage repository data to the UI</li><li>propogating user events back to the repository</li></ul>	<ul style="list-style-type: none"><li>Add Ingredient Use case</li><li>Delete Ingredient Use Case</li><li>Edit Ingredient Use Case</li><li>Get Ingredient Details Use Case</li><li>Get Ingredient List Usa Case</li><li>Ingredient UI State</li></ul>

RecipeListViewModel	
<ul style="list-style-type: none"><li>takes care of mapping the recipe repository data to the UI</li><li>propogating user events back to the repository</li></ul>	<ul style="list-style-type: none"><li>Add Recipe Use case</li><li>Delete Recipe Use Case</li><li>Edit Recipe Use Case</li><li>Get Recipe Details Use Case</li><li>Get Recipe List Usa Case</li><li>Remove Ingredient From Recipe Use Case</li><li>Recipe UI State</li></ul>

ShoppingListViewModel	
<ul style="list-style-type: none"><li>takes care of mapping the data from meal plan repository and iingredient storage repository to the UI</li><li>propogating user events back to the repository</li></ul>	<ul style="list-style-type: none"><li>Get Required Ingredient Use Case</li><li>Get Bought Ingredient Use Case</li><li>Add Ingredient Use Case</li><li>Remove Bought Ingredient Use Case</li><li>Add Bought Ingredient Use Case</li></ul>

MealPlanListViewModel	
<ul style="list-style-type: none"><li>takes care of mapping the meal plan repository data to the UI</li><li>propogating user events back to the repository</li></ul>	<ul style="list-style-type: none"><li>Add Meal Plam Use case</li><li>Delete Meal Plan Use Case</li><li>Edit Meal Plan Use Case</li><li>Get Meal Plan Details Use Case</li><li>Get Meal Plan List Usa Case</li><li>Meal Plan UI State</li></ul>

IngredientListUIState	
<ul style="list-style-type: none"><li>Holds information required to display the ingredient storage UI.</li></ul>	<ul style="list-style-type: none"><li>Ingredient List ViewModel</li></ul>

RecipeListUIState	
<ul style="list-style-type: none"><li>Holds information required to display the recipe list UI.</li></ul>	<ul style="list-style-type: none"><li>Recipe List ViewModel</li></ul>

ShoppingListUIState	
<ul style="list-style-type: none"><li>Holds information required to display the shopping list UI.</li></ul>	<ul style="list-style-type: none"><li>Shopping List ViewModel</li></ul>

MealPlanListUIState	
<ul style="list-style-type: none"><li>Holds information required to display the meal plan list UI.</li></ul>	<ul style="list-style-type: none"><li>Meal Plan List ViewModel</li></ul>

IngredientListItemUIState	
<ul style="list-style-type: none"><li>Holds information required to display an individual ingredient in the list.</li></ul>	<ul style="list-style-type: none"><li>Ingredient List ViewModel</li></ul>

RecipeListItemUIState	
<ul style="list-style-type: none"><li>Holds information required to display an individual recipe in the list.</li></ul>	<ul style="list-style-type: none"><li>Recipe List ViewModel</li></ul>

ShoppingListItemUIState	
<ul style="list-style-type: none"><li>Holds information required to display an individual shopping list item in the list.</li></ul>	<ul style="list-style-type: none"><li>Shopping List ViewModel</li></ul>

MealPlanListItemUIState	
<ul style="list-style-type: none"><li>Holds information required to display an individual meal plan list item in the list.</li></ul>	<ul style="list-style-type: none"><li>Meal Plan List ViewModel</li></ul>