

Stock APIs

Type	Method Name	Return Type	Functions
Constructor	Stock newStock = new Stock ()	void	Call the Stock and create a new object
Add	addItem (String name, int quantity, Date expiration, FoodItem . FoodType type, FoodItem.PlaceLocation location)	void	Add a new item (Parameters required)
Edit	updateItem (FoodItem item, String name, int quantity, Date expiration, FoodItem . FoodType type, FoodItem.PlaceLocation location)	void	Edit a current item (Original object and new parameters required)
Remove	removeItem (FoodItem item)	void	Remove a current item (Original object required)
	getItems (Stock . StockType type)	ArrayList<FoodItem>	Get the specific type of list of items (Type required)
	[Stock.StockType type includes : {ALL, FROZEN, REFRIGERATED, VEGETABLE, MEAT, FRUIT, DRINK, OTHER}]		
	getExpiredItems ()	ArrayList<FoodItem>	Get the list of expired items
	getAlmostExpiredItems ()	ArrayList<FoodItem>	Get the list of expiring items
	getLowStockItems ()	ArrayList<FoodItem>	Get the list of low stock items (low stock: quantity < 3)
Get Ingredient List	getIngredientList ()	ArrayList<String>	Get the list of stock ingredients

FoodItem APIs

Type	Method Name	Return Type	Functions
Constructor	FoodItem newItem = new FoodItem (String name, int quantity, Date expiration, FoodItem. FoodType type, FoodItem.PlaceLocation location)	void	Call the FoodItem class and create a new object
Get information of Items	getName ()	String name	Get the name
	getQuantity ()	int quantity	Get the quantity
	getExpirationToString ()	String expiration	Get the expiration (string) Format: yyyy-MM-dd
	getTypeToString ()	String type	Get the type (String)
	getLocationToString ()	String location	Get the location (String)
Get URL	getWholeFoodsUrl ()	String URL	Get the Whole Foods URL
	getAmazonFreshUrl ()	String URL	Get the Amazon Fresh URL
String	toString ()	String info	Get all the info in a string Format: "Name, quantity, date, type, location"

Recipe APIs

Type	Method Name	Return Type	Functions
Constructor	<code>RecipeDatabase recipeDatabase = new RecipeDatabase();</code>	void	Call the Recipe class
Get List	<code>getAllRecipes ()</code>	ArrayList<Recipe>	Get a list of all recipes in the database
	<code>getSpecificRecipeList (String[] input Ingredients, int range)</code>	ArrayList<Recipe>	Input a String[] type of ingredients in the stock database, and the number of recipes you need. Get a list of recipes that contains the input ingredients.
Private	<code>loadRecipeList ()</code>	Void	Read recipes from the txt file, and then load a recipe list.

RecipeItem APIs

Type	Method Name	Return Type	Functions
Get information of Recipes	<code>getName ()</code>	String	Get the recipe name
	<code>getIngredient ()</code>	String	Get the ingredients
	<code>detailsOfIngredientToString()</code>	String	Get the details of ingredients, with “\n” between each ingredient
	<code>getMethod()</code>	String	Get the cooking instructions
	<code>getServing ()</code>	String	Get the number of serving
	<code>getCookTime()</code>	String	Get the cook time