

## Stock APIs

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

## FoodItem APIs

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