

Nouns and Verbs

Complete this activity as a Team and submit the file to your Team repository under /doc directory. [check for other instructions on dropbox]

List **all** of the nouns and verbs that you find in the description of this system that have any association with its features, operation, or data.

Nouns	Verbs
DailyLog Class intakeOfCalories weight date defaultWeight FileManager Class csvFileName foodName recipeName recordedWeight recordedCalories User Class userName status goal deadlineGoal weight daily consumption collection caloriesTarget weightTarget Food Class ingredient foodName fat weight calories protein carbohydrate	logging status load data track weight attach intake of calories save data record weights store food file filter record date add new foods add new recipes reading files select update display measure

Recipe Class food recipeName totalFat totalProtein totalCarbohydrate totalWeight totalCalories	
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Now create one table for each noun that you think corresponds to a class in your software design. Put the "Class noun" in the header row for the table. Look at the other nouns and copy any that are relevant for this class to the "Attribute nouns" box. Some of these nouns may themselves be "Class nouns". Others will not have that level of prominence. Copy any verbs that could indicate responsibilities for this class to the "Behavior verbs" box. Extend the boxes as needed. Keep doing this until you think you have identified all of the "class nouns" in the system. Are there others that somehow have been missed that you need for a good design? Add more tables as needed.

Class noun: Food	
Attribute nouns ArrayList<String>: ingredient String: foodName float: fat float: protein float: carbohydrate float: weight float: calories	Behavior verbs get & set methods display

Class noun: Recipe	
Attribute nouns object: food String: recipeName float: totalFat float: totalProtein float: totalCarbohydrate float: totalWeight float: totalCalories	Behavior verbs add a new recipe update display

Class noun: User	
Attribute nouns String: userName String: status String: goal DateTime: deadlineGoal float: weight float: daily consumption Collection: collection float: caloriesTarget float: weightTarget	Behavior verbs get & set methods set input weight or default weight update weight

Class noun: FileManager	
Attribute nouns String: csvFileName String: foodName String: recipeName float: recordedWeight float: recordedCalories	Behavior verbs: write and add new food write and add new recipe read food from CSV file read recipe from CSV file

Class noun: Daily Log	
Attribute nouns float: intakeOfCalories float: weight DateTime: date float: defaultWeight	Behavior verbs record food consumed log current date logging status record calorie limit record weight report logs of selected date

Class noun: User Interface : Program Operation	
Attribute nouns Food CSV file calorie limit weight number of servings total calories date	Behavior verbs add food & recipe into Food Collection delete food set date update calorie limit & weight

Class noun: Food collection	
Attribute nouns Food Recipe	Behavior verbs maintain food & recipe files load the data from file into data structure

Class noun: Food database	
Attribute nouns VarChar: Food name float: calories float: fat float: carb float: protein int: rowCount int: columnCount	Behavior verbs load into object collection update insert