Recipe

-name: String
-type: RecipeType {readOnly}

+print(): void (uses <<Printable>>)
+Recipe()
+Recipe(name: String, type: RecipeType)
+getRecipe(): Recipe
+setRecipe
-memberName
-memberName

Ingredient

-name: String
-amount: double
-type: MeasurementType
-amtPerServing: double

+Ingredient()
+Ingredient(name: String, double amount): String
+getName(): String
+setName(name: String): void
+getAmount(): double
+setAmount(amount: double): void

+saveIngredientToRecipe( ):
+addIngredientToRecipe( ):
+removeIngredientFromRecipe( ):
+editIngredientInRecipe( ):

+toString(): String
+print(): void

GUI

<<Enumeration>>
MeasurementType

+OUNCE _____ozPerGram
+GRAM 1
+MILLIGRAM _____milligramsPerGram
+TEASPOON _____teaspoonsPerGram
+TABLESPOON _____tablespoonsPerGram
+CUP _____cupsPerGram
+PINT _____pintsPerGram
+POUND _____poundsPerGram

enums: pg 340 in Murach the number represent how many "measurementType" are in one gram? so the number will replace the underscore and words in the enum.

CalculateAmt

-amount: double
-gram: double
-amtPerServing: double

+CalculateAmt()
+CalculateAmt(amount: double): double
+CalculateAmt(amount: double, type: MeasurementType, amtPerServing: double): double
+CalculateAmt(type: MeasurementType, amtPerServing: double): double
-getAmount(amount: double): double
+setAmount(): void
+ozToGram(amount: double): double
+teaspoonToGram(amount: double): double
+tablespoonToGram(amount: double): double
+cupToGram(amount: double): double
+pintToGram(amount: double): double
+poundToGram(amount: double): double
+milliToGram(amount: double): double

FileManagement
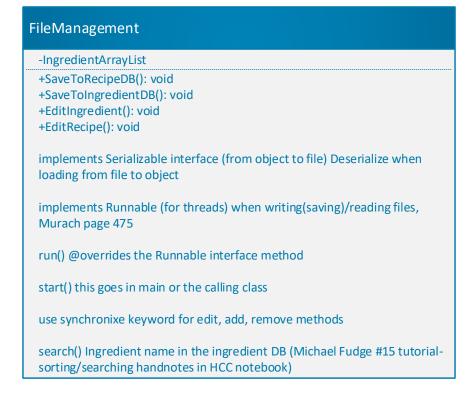
-IngredientArrayList

+SaveToRecipeDB(): void
+SaveToIngredientDB(): void
+EditIngredient(): void
+EditRecipe(): void

implements Serializable interface (from object to file) Deserialize when loading from file to object

implements Runnable (for threads) when writing(saving)/reading files, Murach page 475

run() @overrides the Runnable interface method

start() this goes in main or the calling class

use synchronixe keyword for edit, add, remove methods

search() Ingredient name in the ingredient DB (Michael Fudge #15 tutorial-sorting/searching handnotes in HCC notebook)

RecipeDB

-memberName

<<Enumeration>>
RecipeType

+APPETIZER
+ENTRE
+DESSERT
+SNACK
+DRINK

Nutrient

-type: NutrientType {readOnly}
-amtPerServing: double

+Nutrient()
+Nutrient(amtPerServing: double, enum: type): double

+getNutrient(): Enum
+setNutrient(enum: type): void

<<Enumeration>>
NutrientType

+CALORIES
+FAT
+CHOLESTEROL
+SODIUM
+POTASSIUM
+CARBOHYDRATE
+FIBER
+PROTEIN

<<Interface>>
Printable

-date: Date
-title: String

+print(): void

pg 311 in Murach

IngredientDB

-memberName

Pg 291 for substitute DB until working DB can be made pg 313 in Murach <<serializable>>

GUI

-memberName

-memberName