

ENSF 409 FinalProject Group 27 UML

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User Interface is
currently empty
because we have
not learned about
them yet.

User Interface

Client

-Nutrients nutrientData
-CLIENT_ID: int
-CLIENT_TYPE : String

+ Client(int id)
+ setNutrients : Nutrients
+ getClientID: int
+ getClientType: String
+ getNutrientData: Nutrients

<<enumeration>>
ClientType

ADULTMALE
ADULTFEMALE
CHILDOVER8
CHILDUNDER8

<<uses>>

1

1..*

Hamper

+ clientArray : client[]
+ itemsList : LinkedList<Items>
+ hamperNutrients : Nutrients
+ daysNeeded : int

+ Hamper(int[4] numClientTypes)
+ calcHamperNutrients
+ buildItemList()
+ getClientArray(): client[]
+ getItemsList(): LinkedList<items>
+ getHamperNutrients(): Nutrients
+ getDaysNeeded(): int

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Nutrients

-GRAINS: int
-FRUITS: int
-MEATS: int
-OTHER: int
-TOTAL_CALORIES: int

+Nutrients(int grains, int fruits, int meats, int other, int totalCalories)
+getGRAINS: int
+getFRUITS: int
+getMEATS: int
+getOTHER: int
+getTOTAL_CALORIES: int

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Items

-Nutrients nutrientData
-ITEM_ID: int
-ITEM_NAME : string

+Items(int id, String name)
+setNutrients(): Nutrients
+getItemID(): int
+getItemName(): string

<<uses>>

<<uses>>

NotEnoughFoodException

<<throws>>

DatabaselItems

+ Items[] databaselItems

+ DatabaselItems()
+ updateDatabase(itemsList: Items[])
+ refreshDatabaselItems()
+ getLargestItem(String type) : Items
+ getLargestItemUnder(String type, int calories)
+ getSmallestItemOver(String type, int calories)

Database