UML FoodBank

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OrderForm

+ printOrderForm(order: Request)

→ <<throws>> →

IOException

| <<use>> |

Order

- family: Family[]

+ Order(family: Family)
+ addFamily(Family: fam)
+ validateRequest(): boolean
+ createHamper()
+ removeFromInventory():boolean
+ displayRequest(): String

<<throws>> → **IllegalArgumentException**

<<throws>> → **IndexOutofBoundException**

Family

- familyMembers: ArrayList<Person>
- mobilityAssistance: boolean=false
- hamper = Hamper[]

+ Family(size:int)
+ addFamilyMember(Nutriton: nutrionalNeeds, clientID)
+ removeFamilyMember(person:Person)
+ getFamilyMembers(): ArrayList<Person>
+ getGrainNeeds(): int
+ getVeggieNeeds(): int
+ getProteinNeeds(): int
+ getOtherNeeds(): int
+ getCaloriesNeeds(): int
+ createHampers():
+ getHampers(): Hamper[]

Person

- NUTRITIONAL_NEEDS:Nutrition
- CLIENT_ID: int

+ Person(nutritionalNeeds Nutrition)
+ getNutritionalNeeds(): Nutrition
+ getClientID: int

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Inventory

- inventory: ArrayList <FoodItem>

+ Inventory()
+ addToInventory(item:FoodItem)
+ removeFromInventory(item:FoodItem[])
+ isAvailable(hamper:Hamper):boolean

Nutrition

-wholeGrain:int
-fruitsVeggies:int
-protein:int
-other:int
-calories:int

+ Nutrition(wholeGrainPercent:int, fruitsVeggiesPercent:int, proteinPercent:int, otherPercent:int, calories:int)
+ toWeeklyNeeds():Nutrition
+ getWholeGrain():int
+ getFruitsVeggies():int
+ getProtien():int
+ getOther():int
+ getCalories():int

Hamper

-foodItems: ArrayList <FoodItems>
-family: Family
- wastedCalories: int

+ Hamper(family:Family)
+ addFood(item:FoodItems)
+ getFood(): ArrayList <FoodItems>
+ getFamily(): ArrayList <Person>
+ calculateNutrition(): Nutrition
+ displayHamper(): String
+ calcualteWaste(): int

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CanNotMakeHamperException

<<throws>>

FoodItem

-name: String
-ITEM_ID: int
-NUTRITION:Nutrition

+ FoodItem(wholeGrainPercent:int, fruitsVeggiesPercent:int, proteinPercent:int, otherPercent:int, calories:int, name: String, ITEM_ID: int)
+ getName(): String
+ getNutrition(): Nutrition
+ getItemID() : int

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