Model::Main

For "I extends Ingredient" see if it is doable...

P extends Pain
S extends Sauce
I extends Ingredient

Sandwich

-nom: String
-pain: P
-ingredients: ArrayList<I>
-sauce: S

+Sandwich(nom: String, pain P, sauce: S)
+Sandwich(nom: String, pain P, sauce: S, ingredients: I)
+addIngredient(i: Ingredient): void
+removeIngredient(i Ingredient): void
+ingredientPlusCalorique(): Ingredient
+sandwichsAvecIngCommun(s: Sandwich): boolean
+moveIngTo(i: Ingredient, s Sandwich): void

P extends PainVegetarien
S extends SauceVegetarien
I extends IngredientVegetarien

SandwichVegetarien

+SandwichVegetarien()
+addIngredient(I: Ingredient): void

P extends PainVegan
S extends SauceVegan
I extends IngredientVegan

SandwichVegan

+SandwichVegan()
+addIngredient(I: Ingredient): void

-Add Exceptions

Ingredients

-kcal: int

+setkcal(): void

Pain

Sauce

PainVegetarien

SauceVegetarien

IngredientVegetarien

PainVegan

SauceVegan

IndredientVegan

Aliment

+setKcal(): void

Aliments Végétariens

AlimentsVegan

Model1::ObjectDiagram1