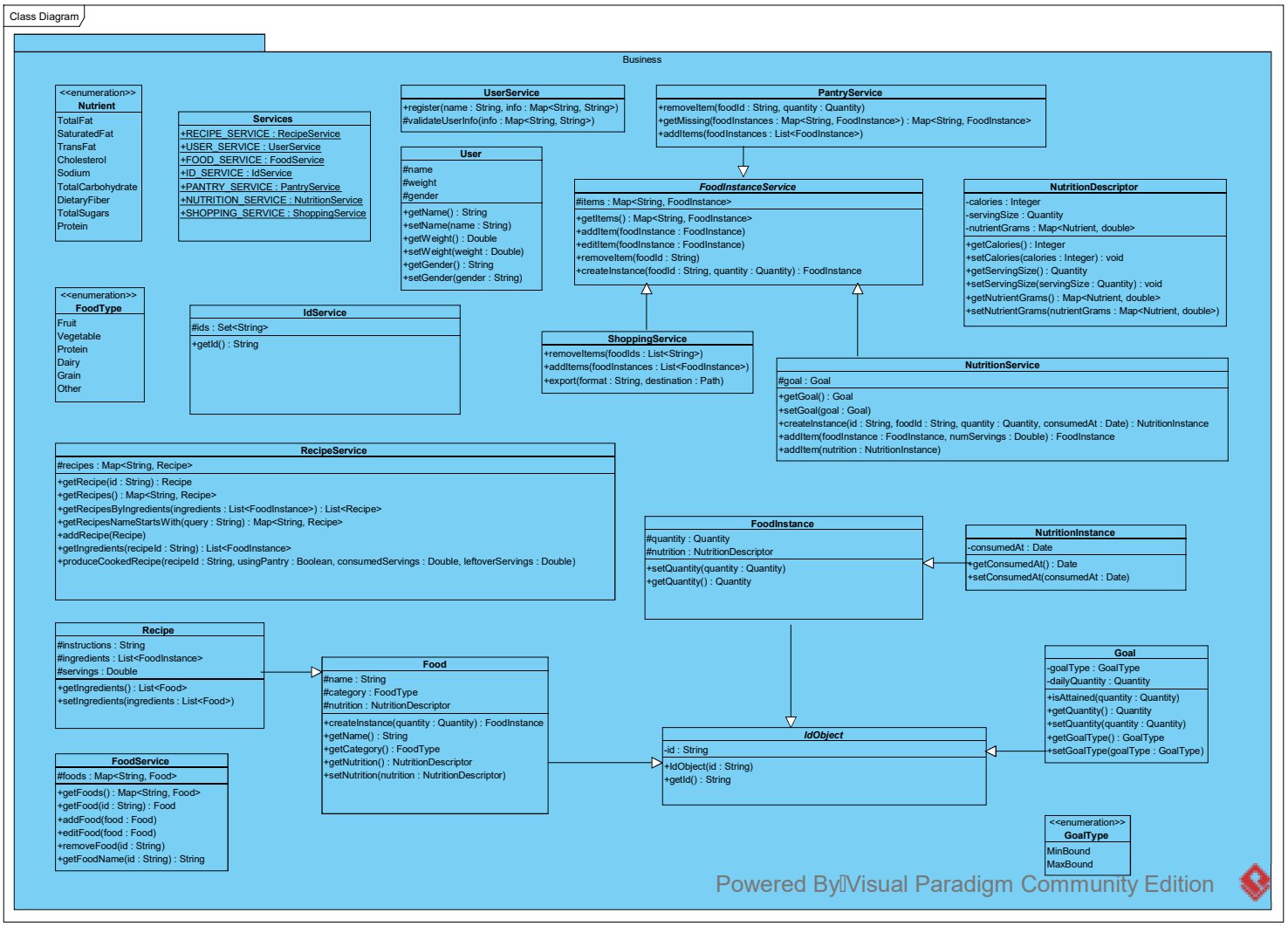
Class Diagram
Business
<<enumeration>>
Nutrient
TotalFat
SaturatedFat
TransFat
Cholesterol
Sodium
TotalCarbohydrate
DietaryFiber
TotalSugars
Protein
Services
+RECIPE_SERVICE : RecipeService
+USER_SERVICE : UserService
+FOOD_SERVICE : FoodService
+ID_SERVICE : IdService
+PANTRY_SERVICE : PantryService
+NUTRITION_SERVICE : NutritionService
+SHOPPING_SERVICE : ShoppingService
UserService
+register(name : String, info : Map<String, String>)
#validateUserInfo(info : Map<String, String>)
PantryService
+removeItem(foodId : String, quantity : Quantity)
+getMissing(foodInstances : Map<String, FoodInstance>) : Map<String, FoodInstance>
+addItems(foodInstances : List<FoodInstance>)
User
#name
#weight
#gender
+getName() : String
+setName(name : String)
+getWeight() : Double
+setWeight(weight : Double)
+getGender() : String
+setGender(gender : String)
FoodInstanceService
#items : Map<String, FoodInstance>
+getItems() : Map<String, FoodInstance>
+addItem(foodInstance : FoodInstance)
+editItem(foodInstance : FoodInstance)
+removeItem(foodId : String)
+createInstance(foodId : String, quantity : Quantity) : FoodInstance
NutritionDescriptor
-calories : Integer
-servingSize : Quantity
-nutrientGrams : Map<Nutrient, double>
+getCalories() : Integer
+setCalories(calories : Integer) : void
+getServingSize() : Quantity
+setServingSize(servingSize : Quantity) : void
+getNutrientGrams() : Map<Nutrient, double>
+setNutrientGrams(nutrientGrams : Map<Nutrient, double>)
<<enumeration>>
FoodType
Fruit
Vegetable
Protein
Dairy
Grain
Other
IdService
#ids : Set<String>
+getId() : String
ShoppingService
+removeItems(foodIds : List<String>)
+addItems(foodInstances : List<FoodInstance>)
+export(format : String, destination : Path)
NutritionService
#goal : Goal
+getGoal() : Goal
+setGoal(goal : Goal)
+createInstance(id : String, foodId : String, quantity : Quantity, consumedAt : Date) : NutritionInstance
+addItem(foodInstance : FoodInstance, numServings : Double) : FoodInstance
+addItem(nutrition : NutritionInstance)
RecipeService
#recipes : Map<String, Recipe>
+getRecipe(id : String) : Recipe
+getRecipes() : Map<String, Recipe>
+getRecipesByIngredients(ingredients : List<FoodInstance>) : List<Recipe>
+getRecipesNameStartsWith(query : String) : Map<String, Recipe>
+addRecipe(Recipe)
+getIngredients(recipeId : String) : List<FoodInstance>
+produceCookedRecipe(recipeId : String, usingPantry : Boolean, consumedServings : Double, leftoverServings : Double)
FoodInstance
#quantity : Quantity
#nutrition : NutritionDescriptor
+setQuantity(quantity : Quantity)
+getQuantity() : Quantity
NutritionInstance
-consumedAt : Date
+getConsumedAt() : Date
+setConsumedAt(consumedAt : Date)
Recipe
#instructions : String
#ingredients : List<FoodInstance>
#servings : Double
+getIngredients() : List<Food>
+setIngredients(ingredients : List<Food>)
Food
#name : String
#category : FoodType
#nutrition : NutritionDescriptor
+createInstance(quantity : Quantity) : FoodInstance
+getName() : String
+getCategory() : FoodType
+getNutrition() : NutritionDescriptor
+setNutrition(nutrition : NutritionDescriptor)
IdObject
-id : String
+IdObject(id : String)
+getId() : String
Goal
-goalType : GoalType
-dailyQuantity : Quantity
+isAttained(quantity : Quantity)
+getQuantity() : Quantity
+setQuantity(quantity : Quantity)
+getGoalType() : GoalType
+setGoalType(goalType : GoalType)
FoodService
#foods : Map<String, Food>
+getFoods() : Map<String, Food>
+getFood(id : String) : Food
+addFood(food : Food)
+editFood(food : Food)
+removeFood(id : String)
+getFoodName(id : String) : String
<<enumeration>>
GoalType
MinBound
MaxBound
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