TummyOnTrack Database

TODO: Need to research how referencing to directly reference to another table's object works in Firebase

User Table: Store User info

User Table	
objectId	String
username	String
password	String
email	String
createdAt	Date
updatedAt	Date

Profile Table: Store child profiles for each user

Profile Table	
objectId	String
user	Reference to a User object
name	String
age	Number
profilePhoto	File
isParent	Bool
unusedPoints	Number
usedPoints	Number
GoalPoints	Number
rewards	Array of References of objects from Reward table
createdAt	Date
updatedAt	Date

TagsCollection table: Store all the keywords and different tags
tagName: can be "FoodClassification", "FoodType", "Nutrients"

tagName "FoodClassification" possible tagValues - "Fruit", "Vegetable", "Meat", "Poultry", "SeaFood", "Dessert"
categoryName "FoodType" values - "Meal", "Snack", "Dessert", "Side Dish", "Junk", "Salad"
categoryName "NutrientsSource" values - "Protein", "Vitamins", "Calcium", "Carbohydrates", "Sugar"

TagsCollection Table	
objectId	String
tagName	String
tagValue	String
createdAt	String
upatedAt	String

FoodItem Table

List of all the food items. Every food item will be tagged as per examples below. This will help us to search as well as created chart analysis based on various components.

FoodItem Table		Possible Entries		
objectId	String	1	2	3
name	String	banana	Broccoli	Grilled Chicken
tags	Array	[Fruit, Calcium, Snack]	[Vegetable, Side Dish, Vitamins]	[Meat, Poultry, Main Dish, Protein]
images	Array			
points	number	1	2	2

DailyFoodEntry Table

This table will store all the food items everyday

DailyFoodEntry	

objectId	String
profile	Reference to object in Profile table
item	Reference to object in FoodCollection table
images	Array
earnedPoints	Number
createdAt	Date
updatedAt	Date

Reward Table

Reward Table		Possible Entries
objectId	String	1
name	String	spaceship
image	File	
pointsToBuy	Number	5
createdAt	Date	
updatedAt	Date	

What Can be locally persisted?
1. Currrent Logged in User (UserDefaults)
2. Whatever photos current user might take with camera which are yet not selected for DailyFoodEntry. Remove them once the day is changed
3. The Rewards, TagsCollection, FoodCollection can be locally persisted once downloaded from server.

Model Layer
1. TTUser
2. TTReward
3. TTProfile
4. TTFoodItem
5. TTTag