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MEALPLANNER APPLICATION

Home project in subject Building Distributed System (ICD0009)

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1 Application overview

1.1 Introduction

Mealplanner is an application that is designed to help people plan their everyday meals for entire family and reduce time spent on grocery shopping. Initial target group for home meal planner are all people who prepare their meals at home or are planning to do so in the future.

Obesity and insufficient nutrition in regards to having enough vitamins and minerals in ones diet is a rising problem. One of the reasons for that is that people don't have enough time or willingness to plan all or at least most of their meals to be nutrient rich and healthy. Even if the meal planning would be done, then one needs to create a shopping list for all the products needed which takes an additional amount of time. One might find it easier to buy semi-finished products, go to fast-food restaurants or just make meals that are quickly prepared but unhealthy if eaten constantly. This is where home meal planner comes to help and reduces the time spent on planning meals considerably.

1.2 Initial stage

Application is planned to be created in different stages. Features in initial stage are following:

- Users can add family members that are not application users
- Recipes are inserted by application users themselves, every user can use them or create one's own version based on someone else's recipe
- Recipes are suggested randomly for every meal by application itself
- If in mood for another recipe, random choice may be changed by user
- Users can rate recipes, recipes can be chosen according to ratings
- Users can add both public and private comments for recipes

- Food products quantities in certain recipe for every meal are calculated by number of people having the meal (based on recipe and person calorage)
- Shopping list for a certain period is generated by application user according to meals on this period and people having the meals

Entity relationship diagram for initial stage is shown on next page.
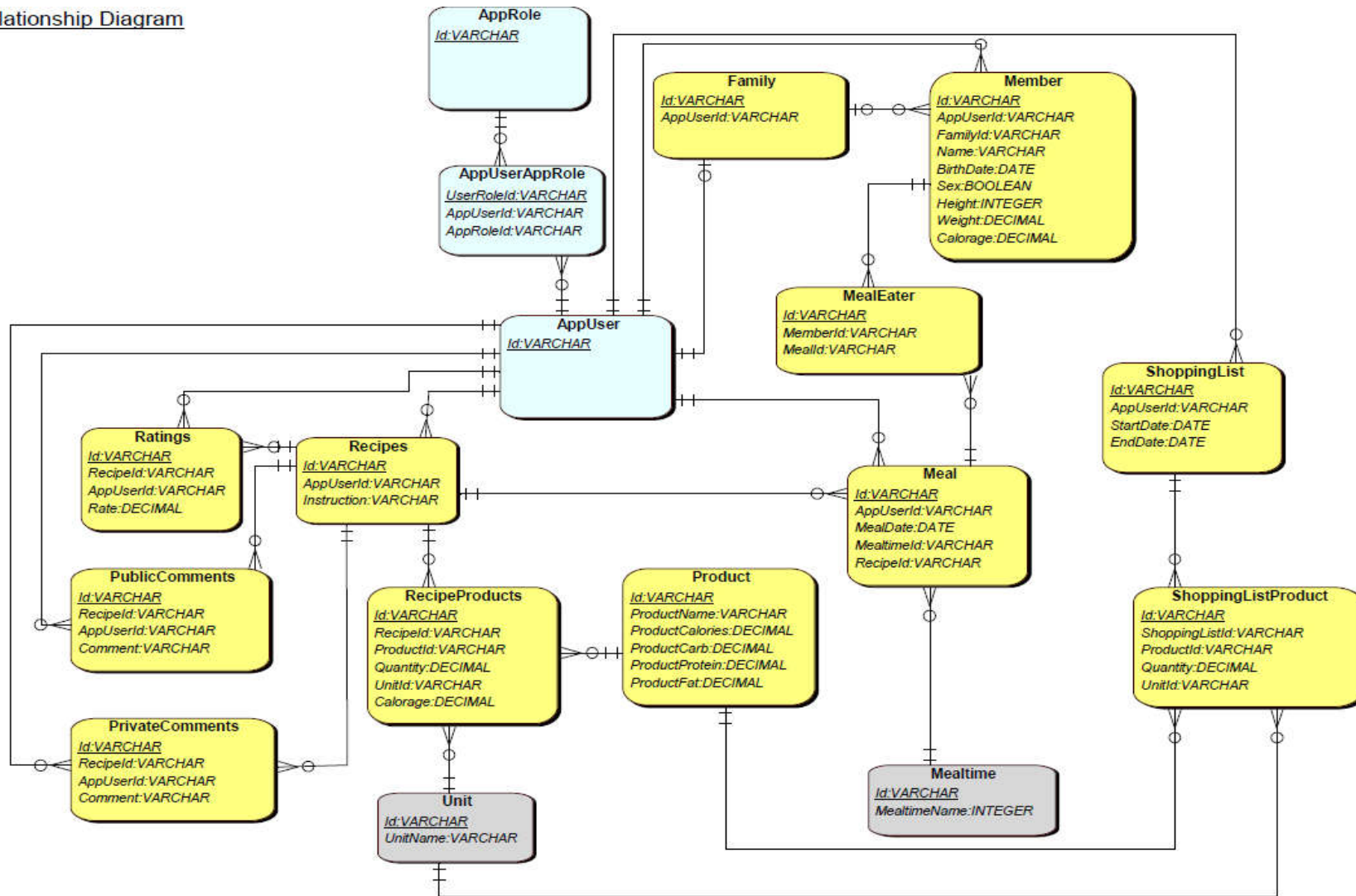
Figure 1. Entity Relationship Diagram for initial stage

1.3 Further development

After initial stage is implemented, following features are planned to be added. Due to complex logic and calculation behind those, it may not be possible to add these in this course's time.

- Recipes are suggested by personal macro- and micronutrients suggestions (at least tries to get close enough, considering entire family)
- Users can see information about their nutrition in chosen period of time
- Users can get suggestions for nutrients that they are missing regularly (i.e. weekly period)
- Recipes can be categorized by ingredients that may cause allergies/intolerance, or diet preferences