Recipes search system

The goal of project is to develop recipes search system for finding recipes of different dishes that can be cooked from products that user already has. The system must implements functionality that is opposite of functions of traditional recipes search systems.

To use the system, first of all user should select a category of dishes (soups, salads, bakes etc.), than user should select products that he already has (search in products base), after that user can enter number of persons. As a result of searching, system must give to user a list of recipes from selected category that can be cooked from products that user has.

User can choose some kinds of filtering:

* by complexity of the recipe;
* by time for cooking the dish;
* by percentage of entry of products that user has to the recipe.

The recipe should be scalable, if it is possible for this recipe. It means that system should automatically calculate required amount of every product in recipe using number of persons that user has entered (by linear dependence). The recipe has few properties, like a complexity of cooking (in scale of 10 points) and time for cooking (in minutes).

The product in recipe has some properties too. This properties are:

* required amount;
* value of significance in the dish (e.g. meat in some kind of steak has high significance but oregano has much smaller significance);
* substitutes.