

AntiGravity Nutrition™

A04 Gravity in Nutrition

Application concept

AntiGravity Nutrition™ is a prototype of a new generation nutrition interface for searching, sorting and managing large amounts of data from different sources. AntiGravity Nutrition™ can bring richer database, easy import of recipes, menu builder, menu builder for specific nutritional needs, recipe search, recipe generator and pantry management.

What tools can AntiGravity Nutrition™ offer for nutrition management?

There are a lot of nutrition tracker applications available to users and these form a part of over a 60 million dollar market in the US alone. AntiGravity Nutrition™ offers a unique solution.

- **A richer database.** Gravity control can load simultaneously data from different locations and sources. It can also be different types of data that are sorted and searched at the same time and by the same criteria. This will allow the application to combine several databases and present the user with a more comprehensive choice of options to put on their menu. The necessity to manually add foods to the database will be minimized and when needed this option will be available from the same screen where the sorting is carried out.
- **Easy import of recipes from different sources.** The loading of several databases will also allow the addition of recipes together with generic foods or ingredients, saving additional time for the user. It will also make it possible to conduct a recipe search for items that fit the current needs of the user.
- **Menu Builder.** The ability to sort foods and recipes by several criteria can become the basis of a feature that is not well developed in other applications – the possibility to create a menu that fits the user's requirements for energy and nutritional values. The attempts at such menu builders are limited to tables where a limited number of slots can be filled with one serving out of a fixed, and usually short, list of foods. Gravity Control™ allows all foods available in the database – individual products, prepared foods and recipes - to be sorted simultaneously not just by energy but also by all chosen nutrition facts and other criteria (e.g. availability in the pantry, at a certain store, price, need for equipment, etc.), so that the user can easily choose larger or smaller amounts of the desired items, depending on their mood, desire, tastes and the situation in an

easy and intuitive way that does not require extensive knowledge on food composition or vivid culinary fantasy.

- **Menu builder for specific nutritional needs.** The capabilities of the Menu Builder above can be especially useful to people with specific nutritional needs that need to monitor not just their caloric intake but also carbohydrates, fat (saturated or unsaturated), fiber, calcium, gluten and any other substance present in food. AntiGravity Nutrition will be of great help to athletes, vegetarians, medical professionals and people with health conditions – cardiovascular disorders, diabetes, fibromyalgia, food allergies and intolerances, etc.
- **Recipe search and recipe generator.** After the user balances out a complete meal out of standalone product and goods, that they have on hand for instance, Gravity Control™ allows them to use the result as a new search in the recipe database to find recipes that contain all of the chosen products or combinations of some of them. If no suitable or appealing recipes are returned, the list can be automatically saved as the ingredient list of a new recipe, so that the user only needs to fill in the rest of the details.
- **Pantry management.** If Gravity Control™ has access to a database of the products in the users kitchen, AntiGravity Nutrition will allow them to use several more functions – loading and searching available products only, searching for recipes that require only available ingredients in available quantities and sorting the products in the menu or menus by availability to generate a shopping list. The database can be managed manually or automatically by connecting the computer to a bar code scanner or even a kitchen scale.

Useful Gravity Control™ features

- Simultaneous sorting and searching by several criteria
- Integration of different data sources
- Event Horizon
- Calculation capabilities in grouping points

Possible Data Sources

AntiGravity Nutrition™ can integrate data from many sources into the same search. Some of them could be:

- Official databases of nutritional contents of food
- User or custom databases of nutritional contents of food
- Recipe databases – electronic cookbooks, user created databases, databases from cookbook applications
- Dynamic feeds from online recipe databases like cooking sites
- Custom pantry databases – managed manually or automatically
- Store availability databases and pricelists