1 Description

In this project you will develop a programm, which has nutrient data for various foods using CSV exported data from http://ndb.nal.usda.gov/ndb/foods. The program should allow a user figure out if he ate enough nutrients during the day.

2 Work plan

The work consists of the following units:

- √ A console based application that allows to load nutrient data CSV files and provides a simple console-based query interface to the user.

- √ Allow the user to retrieve a list of foods that contain a specific nutrient.

- √ Allow the user to query for food and list the nutrients of a given food.

- √ Allow the user to enter food he ate over the course of the day (including the amount) and aggregate all the nutrients that he consumed so far. Find out about the recommended amounts for a human per day and display the discrepancy between the recommended daily dose and the amount consumed so far for each nutrient.

- ◇ Allow for the system to suggest a food that the person should consume next. The algorithm should take into account all the foods the user has consumed so far and suggest a type of food that helps the person to find something to eat that will help him in reaching the daily recommended dose for all nutrients.

- ◇ Develop a small GUI to browse the foods and display the nutrients of each food.

3 Scope

The project counts as completed if the system can be demonstrated implementing the functionality of all √-items. The ◇-items are optional items for extra points.