



## Project Open Information Systems

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# **1 Abstract**

We are building an application which allows the user to keep track of the amount of calories that he/she eats a day. The application provides a way to track the desired amount of food the user should eat in order to stay on the same weight. Based on the amount of calories the user needs, some recipes are proposed. The user could provide a desired weight, which will lead to an adaptation of the needed calories intake.

## 2 Ontology

### 2.1 Organization

Sander made a slack-channel where everyone of the class was invited to. On this channel, we discussed how we would make the ontology.

The first idea was to create a global ontology around calories. This was the one thing that both the food groups and the exercise groups had in common. Because there was not anything else, we left it that way and suggested to start working in separate groups. We met two times on the slack-channel, where we did not agree on anything more than the definition of calorie. Therefore we suggested to meet face to face on a day where we did not had any classes.

Every group had to prepare the definitions they would suggest to use and search for entities in their database. We had this meeting in the morning, with all groups but one, group number 8. This group was the only group that did not reply in the slack-channel, the Facebook chat or on the forum on PointCarré. With all other groups present we made the first ontology where every group could map to it and agreed to it. When almost finishing the ontology, someone noticed that calorie is not a nutritional value. In the ontology we had made calorie a nutritional value. We had a discussion whether we should change it and put calorie in the ingredient entity or leave it that way. Because our definition of nutritional values was also corresponding to calories, we left it the way we first agreed to it because every group could map onto this ontology.

For this meeting, everyone worked together, one person typed in a document and one person drew on the blackboard. We agreed to finish the ontology, by putting it into Web Protégé, on the same day in the afternoon. During the second meeting face to face, we will look for other commonalities between different groups and maybe develop other ontologies.

## 3 Glossary