Swe573

Project Description:
We Are What We Eat

General Description:

This project is about understanding the food we eat. It focuses on the properties of food as well as our relationship with food. It is meant to serve as an awareness tool as well as a nutritional assistant for its users. Furthermore, it aims to serve food providers to provide helpful information about the food they serve by allowing them to construct recipes and menus. The big picture is to provide a system that links the food providers and consumers of food based on healthy data. This is a crowdsourcing application that relies on published food related nutritional information.

This application much keep track of the nutrients of food, which are **substances** needed for growth, metabolism, and for other body functions. Both the macronutrients and micronutrients are important. There are many open data resources that provide such information about raw as well as packaged food. Such resources must be used for this data. Furthermore, missing Turkish descriptions and ingredients should be supplemented as part of this project.

Users will be able to specify recipes and the nutritional value of these recipes should be computed based on the ingredients. Users will have their private space where they can save items of interest. Items can be ingredients, ready food, and recipes. Food providers as well as other users should be able to provide recipes.

Users should be able to specify their food preferences, such as allergies, dietary restrictions, likes, dislikes. For example, a user may be gluten intolerant vegetarian or someone who has a massive sweet tooth. Warnings should be provided when in query results for users who have restrictions to assist them. They should be able to track their nutritional intake by providing a list of what they have eaten. User should also be provided with recommendations based on their preferences and restrictions. Users should be able to browse, search, advanced search ingredients and recipes.

Eating is often a very social activity. And tastes can be similar. Users of this system should be able to provide food centric responses to content. They should be able to follow other users (consumers or providers). Users will be able to communicate about food. The system should recommend ingredients, recipes, and locations to eat to users based on their food preferences and food social network.

Food providers will be able to publish daily and monthly menus linked to the nutritional information. The system will provide them with reports that provide user feedback associated with the food they provide.

You must create and API for the services of this application.
One of the pilot cases will be with the Bogazici University Yemekhane (mess hall). See menu.

The subscription and notification should be handled using W3C Activity Streams 2.0
Posts can be tagged with Wikidata items, which can be used for recommendations.