



BA/SA/MA/Lab: FooDroid – Canteen Menu Management on Android Phones

Motivation and Informal Description

It is 12 o'clock and all students are hungry and on their way to one of the many canteens. Of course everyone would like to make the best choice and get one's favourite dish. However, on the one hand, it is tedious to find out the menus of the various canteens on the Internet because each one has a different website. On the other hand, it is quite hard to tell how a menu tastes, only based on the description on the web.

FooDroid aims to solve these problems by providing a unified platform to display the menus of the various canteens on Android mobile phones. Users can browse through the menus, compare them to each other, filter meals according to their taste, and rate them when they have eaten in order for latecomers to benefit from the reviews of their fellow students.

FooDroid is supposed to be easily extensible. With respect to potential extensions, one could think of using previous ratings of similar meals to predict the quality of a dish. Ratings of users that are often "in sync" with one's own ratings are probably more meaningful than ratings of users with differing tastes. These ideas could help to add a powerful meal recommendation system to the application.

The goal is to develop a server application that retrieves the various canteen menus from the Internet, processes this data as needed, and stores it on the server in an appropriate way. An Android client application then accesses this data through a web service, displays it, and allows to rate the menus in a convenient way on the mobile phone.



Requirements

Good programming skills (preferably in Java) and knowledge of the Android API are required. The student should be able to work independently on the topic and, furthermore, be resourceful to gather required information and get familiar with new topics unassisted.

Contact

- Tobias Langner: tobias.langner@tik.ee.ethz.ch, ETZ G61.1
- Samuel Welten: samuel.welten@tik.ee.ethz.ch, ETZ G61.4
- Roger Wattenhofer: wattenhofer@tik.ee.ethz.ch, ETZ G63