Alternative apps

This reports purpose is to explain in short terms which apps represents core functionalities that we can use to make our app better.

Endomondo Sports Tracker

Used to track routes, times and progress in training and activities. Uses GPS (and accelerometer) to find position on maps and track the location. Very easy to use, and automatically syncs up to endomondo.com. Has an inspiring design and sync-functionality. The main part of endomondo is the inspirational part to get people to move; you can compare yourself to others, e.g. friends, and you have a really easy way to see what an excercise is worth in amount of calories and amount of burgers burned by an exercise.

A lot of aspects from this app can be used to design our own app in terms of labeling and representation of data.

GPS Status

Used to view detailed status about the GPS system on the phone. Has a very advanced interface with lots of numbers to show information, but for a rookie user the data rarely translates into information.

The app succeeds to use the sensors very heavily.

Pedometer

https://code.google.com/p/pedometer/
An open source app that has a GPLv3 license that is compatible with our Apache 2.0 license. The app uses the same sensors that we should focus on and opens up the oppotunity for us to take advantage of it and skip leaps in the "how to do this on Android"-process. We can freely use code from this software that already works.

From this we can use very much.

How does the step detection algorithm work?

Basically, it aggregates the sensor values, finds the maximum and minimum, and if the difference is bigger than a value (which depends on the sensitivity setting) then it counts it as a step. There's is some additional optimization, which I arrived to through experimentation.

GPS Tracker

https://code.google.com/p/open-gpstracker/

This program adds the capability to store and review where you and your Android device have been. Basically you press record at the start of your trip and your phone stores the route you take. This route is drawn real-time on the Maps functionality of Android or in the background with an idle device. The route is stored on your phone for review and further use. The applications tracks location by GPS, hence the name. An accurate description of the program type would be a GPS logger.

It cointains the ability to log location, something that could be useful for our application. Since it is open source and has a compatible license (GNU v3), we can use large part of it.