AIM OS

Project Overview

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January 11, 2017

About AIM OS

AIM OS is a project for developing an open source, programmable, sensoric input for humans.
For describing best how it works let's take a look at the example that was the foundation of the project:

GEOS Magnetometer is a satellite orbiting earth and measuring the fluctuations of the interplanetary magnetic field between earth and sun. The measured data are published on a publicly available website in form of a text document which is updated every minute.

The app downloads this text file and extracts the latest record (aka. the latest data coming from the satellite). The AIM app has a, what I call "strength array". This array is configured by the user in the following way:

e.g. (with temperature data): from 24°C – 26°C = category 1
from 27°C – 30°C = category 2

The categories along with the scale on the left side make up the strength array. It is used for categorizing the incoming data.
The various categories relate to specific sounds. According to the current value of the analysed data the app sends the corresponding sound to the Bluetooth cuff.

This Bluetooth cuff converts the incoming sounds to magnetic fields. (These magnetic fields are chainging their polarity, depending on the Hertz count of the sound and are therefore feelable with the magnetic implant.)

As this was a bit technical here is another example:
The app can be configured to query your mobile phones' temperature sensor every second.
You can then configure the strength array so that certain temperatures correspond to certain sounds and therefore to certain strengths of vibration you feel in your finger.

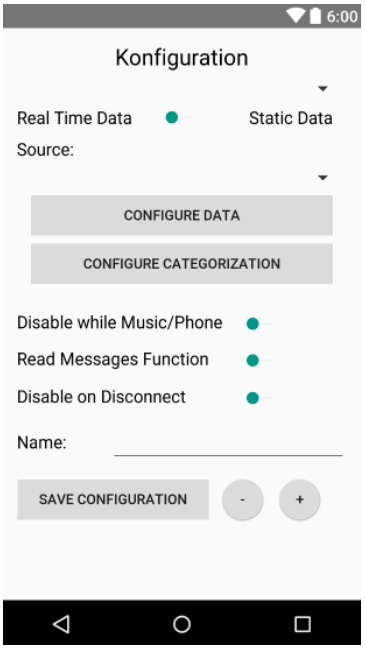
There are also some advanced configuration features for the app:

- Option for disabling the analysis temporary when there is no internet connection
- Option for disabling the analysis temporary when you get a phone call or play music
- Option for converting incoming messages to morse code and parsing it into the bluetooth cuff

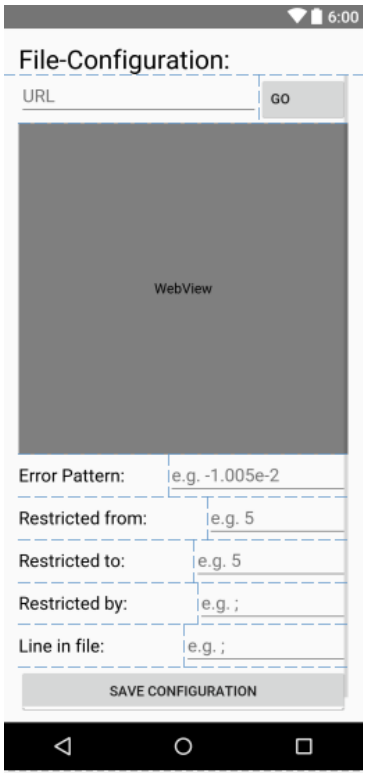
The app is being developed as an open source project and is available on GitHub (https://github.com/faeblDevelopment/AIM).

You will see some screenshots of the app on the next page.

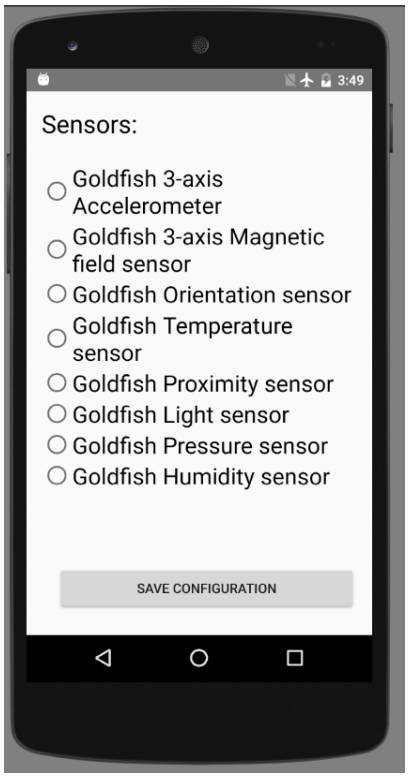
Main Screen for stating the analysis



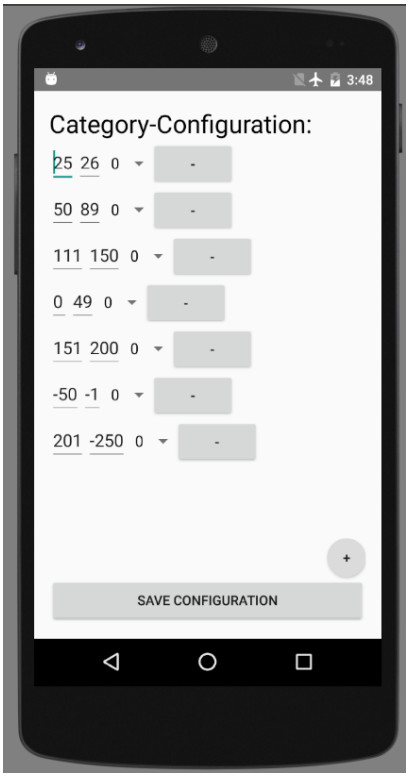
Main configuration



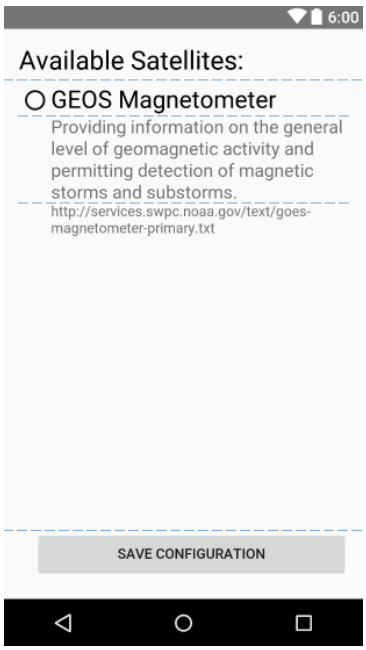
Configuration for files (where the data come from)



Configuration for sensor data



Configuration of the strength array



Configuration for satellites

State of the Project

The app is developed as far as 95%. It reached nearly full functionality except of some additional features like converting messages to morse code. Also the user interface will get a few facelifts.
The Bluetooth cuff is in the process of being built. Plans are finished, all parts are available and my colleague and me will build the first prototype in the following 2 weeks.
By now the app is only programmed for Android. Once it is finished, iOS will come into spot.

About Me

I am a passionate programmer, convinced transhumanist and fascinated about all kinds of human enhancement techniques. Living in Austria I am currently working in the field of business informatics and software development.
AIM OS is being developed in my free time and already experienced a great deal of time and passion by now.

History of AIM OS

AIM is short for “Analysis of the interplanetary magnetic field fluctuations” which was the projects aim in the first place. OS stands for open sense (referring to the open source approach of the project).
Some time ago, while doing research on bodymodifications I came across an article about Rich Lee. The idea of listening to music by magnets triggered my fascination: It had to be possible to parse any data you want into such a device and feel these data as they come in. This was the time I thought of making a project of it for developing an open source programmable sense.