

## Weather decides clothes

Appropriate clothes based on weather conditions

### Description of the problem

The basic need of keeping a normal body temperature is of importance. The lack of proper clothing can create issues especially when performing outdoor activities in school or in spare time. Usually the teacher, parent or other person with similar functionality has the role of informing the pupil about how to dress according to weather conditions. The situation generally gets solved with identification, coordination and recourse allocation issues, basically identifying the issue, finding suitable clothes, and bringing them to the person in need.

The selection of clothes usually starts in the morning in the persons' home, selecting which clothes to wear during the day. For a proper situation, a selection of clothes appropriate for the weather conditions are selected, for an non proper situation unsuitable to cold or to hot clothes are selected. For a proper situation the issue of clothes might need no more focus during the day. However not properly dressed can result in an uncomfortable situation during the day, perhaps followed by a cold, or in the extreme cases cold injuries or overheating.

The issue of getting properly dressed is a part of being independent, since it is a basic need with potential negative effects if not taken into account.

### Solution of the Problem

A possible solution for getting properly dressed according to the weather situation based on the advantages that SmartPhone gives, is the proof-of-concept application Open Senses, see *figure 1* and *2*. The solution includes presenting current weather data and suggestion for proper clothes based on current weather data. Selection of geographical position of the person, *fig. 1*, current weather condition and match of suitable clothes are presented, *fig 2*. The clothes are represented in the form of picture and text, and put in relation to text presenting which part of your body the clothes corresponds to.

To make the application run instantly, with the benefit of the user avoiding navigation in several menus, techniques for instant triggering of application can be applied. The prototype can run without the instant support, but holding the SmartPhone over a tag enables the application to open instantly. Preferably the tag can be placed in proximity to the wardrobe.



Figure 1. Selection of geography based on location.

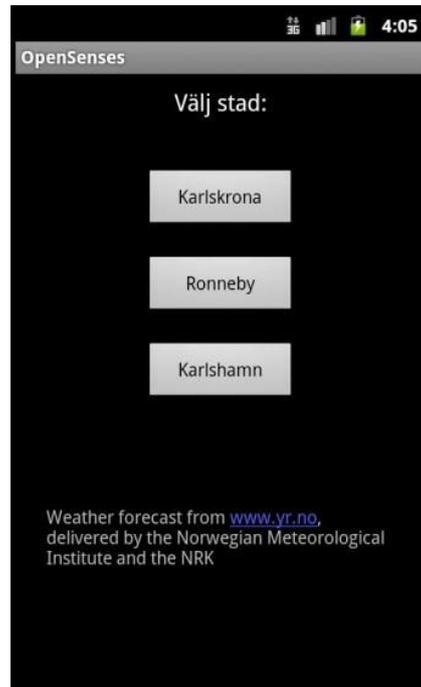


Figure 2. Displaying of weather and suggestion of possible clothes to wear based on weather conditions.

## Technical description

SmartPhone application *Open Senses* presents weather data for Karlskrona, Ronneby and Karlshamn and a suggestion of what type of clothing that's most suitable according to the weather condition with a simple interface displaying a representation of clothes in form of picture, text and information on which part of the body to put the clothes. If your device supports Near-field communication (NFC) the application can be launched via a NFC tag containing a URL to [www.yr.no](http://www.yr.no). Developed mainly to help persons with cognitive impairments. Weather data is downloaded from [www.yr.no](http://www.yr.no) and pictures are obtained from [www.inprint.se](http://www.inprint.se). Permission to use the data has been obtained both from Yr and Inprint. The requirements concerns having complete Internet access. If applying the NFC technology an NFC card and reader for NFC. Reader is downloaded on Android market.

Link to Open Senses:

[https://market.android.com/details?id=com.opensenses&feature=search\\_result#?t=W251bGwsMSwxLDEsImNvbS5vcGVuc2Vuc2VzIl0](https://market.android.com/details?id=com.opensenses&feature=search_result#?t=W251bGwsMSwxLDEsImNvbS5vcGVuc2Vuc2VzIl0).