



BA/GA/SA:

Smart Homes and Weather Events



The Swiss company *aizo* has the dedication to make houses more intelligent in order to provide more comfort for the inhabitants. Their product *digitalSTROM* provides different levels of automatization of electrical devices, from switching on certain lights based on the time of the day, through turning on energy-intensive devices such as washing machines during times when energy is cheaper, to the automated control of blinds (Jalousien) based on the time of the day. The digitalSTROM environment allows the development of apps that can then control the electrical devices in the household in plentiful ways. Furthermore, these apps may access other information sources through the Internet to react to external events and perform appropriate measures. The objective of this

thesis is to integrate external real-time weather information provided by *Meteoswiss* into the digitalSTROM environment by means of a cloud service. This weather data should then be used in new and ingenious ways to improve the service quality.

There are many ways how we think we can integrate weather data into Aizo's vision, but the objective of this thesis is that **you** come up with ideas that help our purpose. So if you have interesting ideas on how to use the weather data in interesting ways, feel free to contact us!

Requirements: Creative thinking, basic programming skills, and the ability to work independently are necessary to work on this topic successfully.

Interested? Please contact us for more details!

Contacts

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