

Smart Home Satisfaction Survey

Prerequisites:	- General technical background
Recommened background:	- Smart Home or Internet of Things experience
Level:	This topic is appropriate for Bachelor and Master Students
Language:	German or English

INTRODUCTION

There exist a myriad of different smart home appliances, systems and platforms. All of them propagate energy savings, increased comfort and security and many more advantages. However, real world experience show that these systems are still in their baby shoes - they are error-prone, require battery exchange more often than documented and require high maintenance.

The goal of this project is to design a user questionnaire to gather real world experiences from real users with off-the-shelf platforms in Germany.

This project is very well suited either as a Bachelor thesis or as a Master mini project.

PROJECT DESCRIPTION

The goal of this project is to gather real-world experiences form real users and their smart home systems. The individual steps are:

- Conduct a survey about the available smart home systems on the German market, including at least 10 leading systems. Explore their properties, such as communication technology, types of sensors, costs, powering, targeted applications, interoperability with other manufacturers, available end-user interfaces, etc.
- Design a questionnaire in German to ask about the type of sensors and systems used and the experience made. Important points are perceived maintenance, comfort increase, energy savings, etc.
- Gather data from at least 50 German residents with a smart home installation at home.
- Design also a short questionnaire for people who do not have a smart home installation at home to ask for their expectation and reasons not to have it.
- Gather data from at least 20 German residents without a smart home installation at home.
- Documentation and presentation of the work.

CONTACT

If you are interested in this work, please contact us via mail: projects@comnets.uni-bremen.de