

A Multi-method Approach for User-centered Design of Identity Management Systems



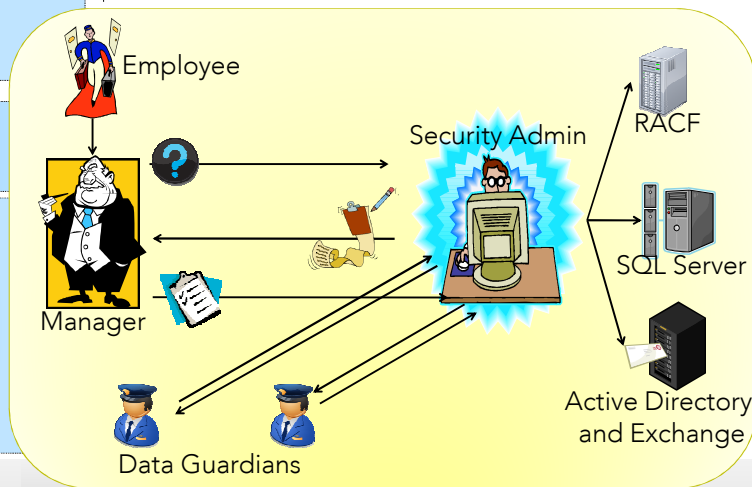
Pooya Jaferian
 David Botta
 Kirstie Hawkey
 Konstantin Beznosov
 Department of Electrical and Computer Engineering
 University of British Columbia

Motivation

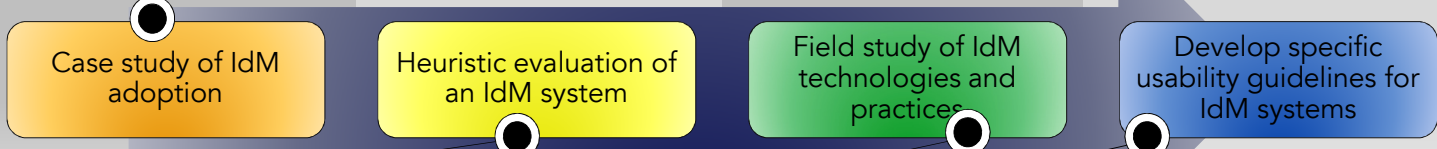
- Identity management is important to organizations.
- To improve usability of identity management tools, organizational and human factors should be considered.

A case study of IdM Adoption

- 4 semi-structured interviews
- Analysis of documents
- Study the process of IdM adoption before, in the middle and after the first phase of deploying an IdM system.



Methodology



Usability heuristics for ITSM

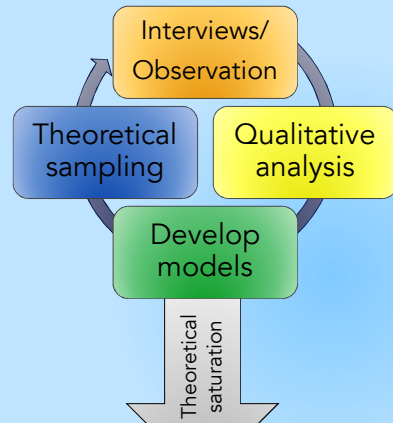


- Mechanics of collaboration
- Guidelines for designing ITSM tools
- Techniques for preventing errors in complex systems

- Interpretation of Nielsen's usability heuristics for ITSM:
 An example of a heuristic "Error Prevention":
"Even better than good error messages is a careful design which prevents a problem from occurring in the first place. Either eliminate error-prone conditions or check for them and present users with a confirmation option before they commit to the action."

- For ITSM tools:
- ITSM tools should facilitate the creation and use of cues and norms.
 - ITSM tools can prevent errors by involving other stakeholders.
 - ITSM tools can reduce errors by exposing the system at different levels of abstraction.

Future work



- The focus of the interviews will be on :
 - different IdM tasks
 - stakeholders involved
 - their communication and collaboration
 - the challenges in IdM
- The collected data will be analyzed using coding techniques.
- The central theme in the analysis will be tool usability.
- Based on the analysis, a set of design recommendations will be proposed.

