

Developing a Domain Analysis Procedure based on Grounded Theory Method

Summary

Business analysts engage with their stakeholders to understand project requirements. Such engagement consists of interviews, workshops, and background materials. These materials are used to determine requirement specifications and other artifacts, for example, glossaries. The author will develop a method for using GT for domain analysis. Domain experts should be interviewed and the transcripts will be coded according to GTM, and the conversion of the code system into a domain model explained. The findings of how GTM has to be adapted for a successful application to requirements engineering will result in a new method description.

Work Results

- Literature review
 - Requirements analysis and glossaries in software development
 - Qualitative data analysis in the social sciences, in particular interview analysis
- Research approach and execution
 - Interviews with domain experts
 - Qualitative data analysis to create a domain model and glossary
 - The results will be validated through a qualitative survey of the participating domain experts.
- (Research) results
 - Reflections on requirements engineering process
 - The actual domain model and glossary
 - An evaluation of whether QDA can help domain analysis
 - Suggestions for improving requirements analysis using qualitative data analysis

Advisor

Andreas Kaufmann, kaufmann@group.riehle.org
Prof. Dr. Dirk Riehle, dirk.riehle@fau.de

Open Source Research Group
Computer Science Department
Friedrich-Alexander University
Link to doc: <http://goo.gl/VEh8r>

More information: <http://osr.cs.fau.de/theses/resources/>