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Software Engineering: Dependability
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Bachelor Thesis

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How to deal with Non-Functional Requirements in Agile?

Agile Software Development is the dominating way of developing software in today's practice. Nonetheless, this specific development way also comes with some challenges and problems, identified over time. One often mentioned issue is the question how to deal with non-functional requirements (NFRs) in the highly flexible, change-intensive, and reactive agile development?

To get an overview of the combination of NFRs in Agile development, the idea of this thesis is to perform a Systematic Literature Review (SLR) on this topic and come up with an overview on how the different NFRs such as portability, maintainability, sustainability, etc. are addressed in agile development. Within the results it would be interesting to get some data about interesting side-aspects such as how much publications from practice (e.g. experience reports) or academia cover this combination and in which way.

Based on this work it should be possible to better focus on open research aspects for future work or new project proposals.

Area

Software Engineering, Software Processes, Agile Development, NFRs

Type

Theory (70%); System Building (15%); Implementation (0%); Evaluation (15%)

Prerequisites

- Interests in conducting Literature Research
- Some knowledge regarding Systematic Literature Reviews (SLR), best would be the lecture on "Empirical Model Building and Methods"

Start

As soon as possible

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