

BACHELOR'S THESIS

Identification and Specification of User Interface Building Blocks

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Motivation

User interface development is a very expensive task especially when developing such interfaces from scratch in each software engineering project—e.g. search dialogs or commonly used solutions to filter a set of data. There are approaches like reference architectures which cover a huge amount of guidelines for implementation patterns, security configurations, component structures, user interface techniques, and much more. In order to be much more efficient in today's projects the reuse capability of such reference architectures has to be extended by user interface building blocks covering generic often occurring problem solutions. With an commonly used solution it might be possible to generate such building blocks.

Task

The student working on this Bachelor's Thesis should identify such building blocks from an existing reference architecture by reading and interviewing. Afterwards, the building blocks should be brought to an appropriate level of abstraction for establishing reusability. The building blocks might cover generic implementations as well as a textual specification. Furthermore it might be imaginable (but not necessary) to implement the solution implementation in FreeMarker templates as input for further generation.

The Bachelor's Thesis is carried out in cooperation with Capgemini (Offenbach/Frankfurt).

Prerequisites

- Basic understanding on architecture descriptions (e.g. UML)

Contact

Malte Brunnlieb, M.Sc.

Room: 32-432

Tel.: 0631 205-2625

Email: malte.brunnlieb@capgemini.com

Web: <http://softech.cs.uni-kl.de/>