

Hypertext based Context Representation for Component Reuse in System Analysis and Design

Janne Kaipala¹ , Zheyang Zhang²

1HiQ Softplan
Westendintie 99C
02160 Espoo, Finland
Janne.Kaipala@hiq.fi

2Department of Computer Sciences
University of Tampere
FIN-33014 Finland
Zheyang.Zhang@cs.uta.fi

Abstract

The lack of design information forms a significant barrier for engineers to maintain and reuse a design model. This paper tackles the problem by presenting the conceptual framework of design context and exemplifying its hypertext representation in a metaCASE environment, MetaEdit+. It illustrates the traceability link types and the hypertext data model to represent the contextual knowledge, which provides novel ways for designers to express, record, explore, recognize, and negotiate their shared context, and further improves the reuse in systems development process, especially at the analysis and design stages.