MULTI PARADIGM MODELLING VIA XSLT

Modeling is becoming more and more common in today's software development. It is a requirement nowadays for a configuration model or activity model in industry or in almost all software development process of heterogeneous models. This presents a hassle challenge to the software developers to cope with, as it is well-known in modeling language in order to be able to work with various models involved in the process of developing the software.

Multi-paradigm modeling brings forward a platform of interoperability between various models, based on model transformations. XSLT (Extensible Stylesheet Language Transformation) is a widely used standard to develop XSLT processors where it is a type of node tree. XSLT processor transforms an XML document containing a set of instructions into another XML document containing HTML. Fig. 1 presents an overview of model transformations in a multi-paradigm modeling environment. Using an XML-Based programming language, a model transformer that translates one set of objects into another, and visualizes the graphs of the models involved in the operation models, can be created. A model involves models, a total of nine tools are used for interoperability between these models.

An attention to multi-paradigm model transformation for interoperability between models, this author suggests using XSLT. Extensible Stylesheet Language Transformation (XSLT) is an interoperability base standard. Various model models tools can use XSLT-based technologies for multi-paradigm model transformation. The core transformation is to view the models in a multi-paradigm model transformation. The core transformation is to view the models in a multi-paradigm model transformation. This can be advantageous for local NiaVie modeling since XML models can correlate with one another using XSLT as a framework.

Fig. 1 presents an overview of how XSLT could be the basis of model interoperability in multi-paradigm. In Fig. 2, showing overall tools, each model could communicate with one another through an XML transformation defined on the XML document, and be transformed through XML document into a web page. Fig. 3 shows an overview of how XSLT could be the basis of model interoperability in multi-paradigm. Specifically, the authors present a case study of using XSLT model transformation in a multi-paradigm modeling environment. This paper proposes an XML-Based model transformation framework for multi-paradigm modeling environment.

Fig. 2. Overview of XML document modeling via XSLT

Fig. 3. Overview of multi-paradigm modeling via XSLT

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