USIXML
USer Interface eXtended Markup Language

Context Model Editor

ITEA 2
INFORMATION TECHNOLOGY FOR EUROPEAN ADVANCEMENT

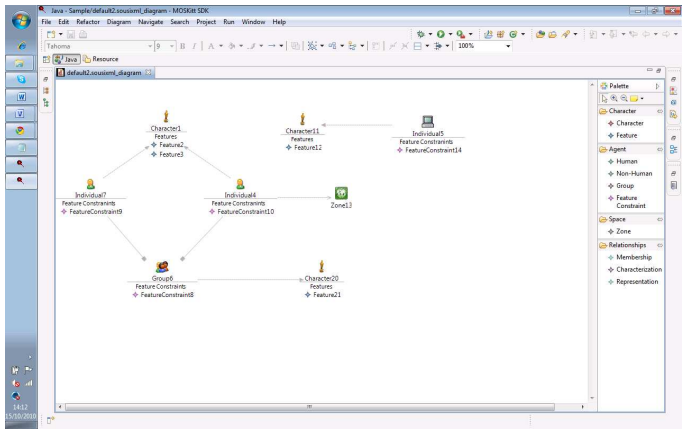
The Context Model Editor

Editor for specifying User Interfaces at UsiXML context level

USI Context

The goal of the Context Model Editor is the creation, edition and validation of context models describing main characteristics of the entities that are part of the system, and affect the system context. These characteristics will describe the situation in which tasks will be performed. However, situations are not defined by the context model; they are defined in a separated editor (the Task Model Editor) because a situation affects a single task. Thus, the same context description (context model) can be reused in different task models.

The Context Model Editor was developed as an Eclipse Plug-in taking advantage of the Eclipse Modelling Framework (EMF) and the Graphical Modelling Framework (GMF). The Context Model Editor defines a set of model constraints that are defined using the Object Constraint Language (OCL). This language allows the definition of validation rules to validate the consistency of the models to be created. The distribution of Eclipse development environment that was used was the Moskitt.



Features

To describe the context model of an application, we use the context model editor. It allows the definition of characters, features, individuals (Human and Non-Human), feature constraints, groups and zones. It also allows the creation of the characterization, the representation and the membership relationships among the agents we have described.

Publications / Download / Screen shots / Video link / FAQ

Inputs

The Context Model Editor does not require any input to work on because the context description is independent of how the context affects the interaction activities in the application. However, the editor is able to open context models to modify them. These context models should conform to the context meta-model specification and must be expressed using the XMI (XML Metadata Interchange) format.

Outputs

A context model that conforms to the context meta-model specification expressed in XMI (XML Metadata Interchange) format.

Planned version of the tools

- 2011 - The second version will provide consistency checking between task and context model expressions (TRL : XX).
- 2012 - The final version will provide space event representations (TRL : XX)

Authors

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This Tool, Product or Service is or has been developped fully or partially in the frame of the UsiXML project. UsiXML is an ITEA 2 project. ITEA 2 is the Eureka project #3674.

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