

Models and Ontologies for the Specification of User Interfaces [⊕]

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There exists several reasons that justify the complexity of design and implementation of User Interfaces [Mye93], but perhaps the main reason is the difficulty of understanding the tasks the user must perform with the system and the characteristics of the different kind of users managing it [Gou85]. In this sense, it seems necessary to define **new models** that allow to collect **user** requirements and specify the different characteristics of the interface associated to a concrete applica5(x)4 tmodel thould aallow-10(def)9()10(sfapplica)2(s 9(in)-1(ter independently-4(e)]TJ1~Tcr"0.101

Figure 2: IDEAS: Interface Development Environment within OASIS.

So, IDEAS (**I**nterface **D**evelopment **E**nvironment within **O**ASIS) aims to be a model-based and automatic user interface development system integrated within the framework of OASIS and OO-Method, to support the automatic production of high-quality user interfaces. This is possible due to the fact that this environment is based on declarative models, with the advantages of this approach as stated in the previous section.

Fig. 2: Dialog Structure Diagram.

- *The Component Specification Diagrams*, which models the contents of every one of the windows and dialogs represented in the previous diagram. Every window is composed of components and tools. For instance, the component specification diagram for the dialog *Loan_Book* would be the following:

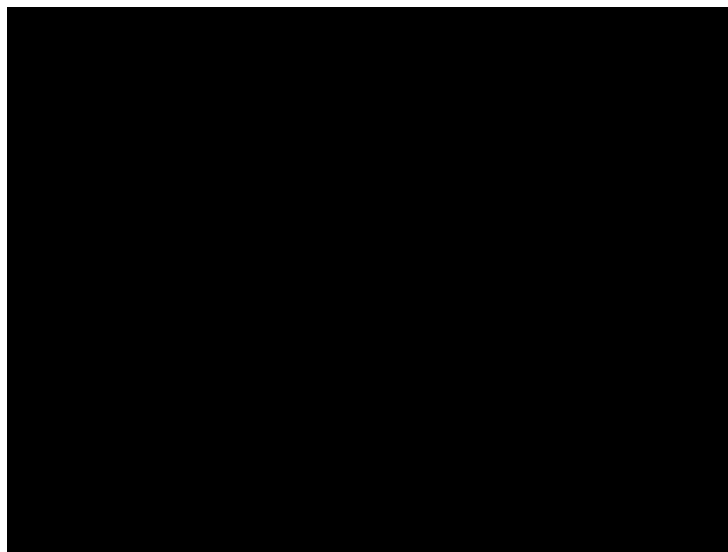


Fig. 3: Component Specification Diagram

- *Components Behavior Definition Table* in which every one of the components and tools represented in the previous diagram is accurately described so that the user can understand the meaning of the components and tools through which he interacts and retrieves information from the system. In the following table we show the Components Behavior Definition Table for the dialog class *Loan_Book*.

Component	Control Tool	Visualisation Tool
Loan	<i>Select_Borrower</i> : Allows the	

