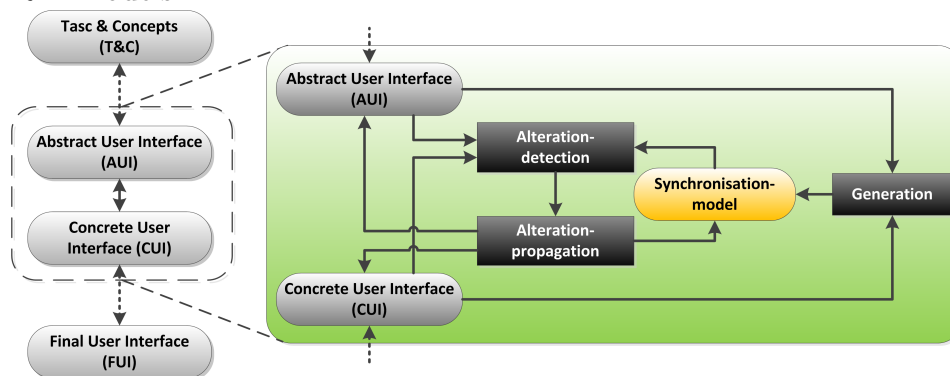




Realisation of Model Synchronisations in Context of Model-driven Development of User Interfaces

The application of iterative user-centered software design methods in model-based user interface development forces developers to use multiple models (among others induced by the CAMELEON reference-framework, see left side of the figure) in order to abstract and describe different stages of the final solution. E.g MARIA – a modeling language for UIs – introduces Models on abstraction levels of abstract (AUI) and concrete (CUI) user interfaces (see right side of the figure). Keeping all involved models in a consistent state to each other is desirable for likely reuse of implemented software.

The intention of this student research thesis is to implement a software tool for the synchronisation of model alterations, caused by user evaluations in both MARIA models.



Therefore this tool enables the generation of a synchronisation model from two existing UI models or during transformation from AUI to CUI. It maps model-element correspondences in order to detect alterations and to propagate them finally. Equitable and simultaneous alterations in both models are allowed. Six different modes can be used to resolve for conflict-affected situations. An integration of model and tool in a development environment should be possible because of prepared interfaces.

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