Orchideo: A Model-Driven and Aspect-Oriented Architecture for Business Applications

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ABSTRACT:
The complexity of business applications---on both technical and domain levels---has grown to extents that can hardly be managed with traditional approaches. Both model-driven software development (MDSD) and the aspect-oriented (AO) paradigm attempt to address this challenge. Orchideo combines these two approaches and leverages higher levels of abstraction provided by MDSD and a maximum degree of modularity provided by aspect orientation. It defines a simple join point model based on a formal metamodel. Application features are captured in aspects which are woven at runtime by the orchideo engine. The feasibility of the approach has been demonstrated in commercial projects.