Abstract

This paper presents a different experience and application of defining and implementing an Agile Development Process (ADP) using Model Driven Architecture (MDA) series. This process and its implementation inherit the merits of both methodologies. The research demonstrates that combining MDA practices with ADP can significantly moderate software development cycle time and increase productivity and quality. This approach offers several other advantages including Platform-independent models which are used to promote the system endurance and flexibility in deployment. Executable models are assembled to increase the level of consideration, quality and efficiency. Change of models that are utilized to implement and allow the advanced run-time execution through programmed improvements that is not practical with transcribed code. The principles of modeling describe that the transformation should also explicitly modeled because it is at the very core of Model Driven Engineering. Transformations allow synchronization, analyses of execution, optimization, code synthesizing, composition and developing models.
A Framework for Model Driven Transformation Engineering towards Software Architecture and Performance

References


Index Terms

Computer Science Software Engineering

Keywords

Agile Development Process (ADP), Computation Independent Model (CIM), Model Driven Architecture (MDA), Platform Independent Model (PIM), Platform Specific Model (PSM).