

Model Driven Architecture With Executable Uml

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~~SECC Knowledge -- Model Driven Engineering~~ ~~Service-Oriented Architecture What is MODEL-DRIVEN ENGINEERING? What does MODEL-DRIVEN ENGINEERING mean? 4 - Model driven Architecture 2020~~ ~~1 Domain Modeling Made Functional - Scott Wlaschin Vortrag: Model-driven architecture with a scala DSL 1 - Model driven Architecture 11 1~~

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Model-driven architecture (MDA) is a software design approach for the development of software systems. It provides a set of guidelines for the structuring of specifications, which are expressed as models. Model-driven architecture is a kind of domain engineering, and supports model-driven engineering of software systems. It was launched by the Object Management Group (OMG) in 2001.

Model-driven architecture - Wikipedia

Using the most widely adopted software modelling language, UML, the reader will learn how to build robust specifications based on OMG's Model Driven Architecture (MDA). From there, the authors describe the steps needed to move directly to executable code using Executable UML (xUML).

Model Driven Architecture with Executable UML: Raistrick ...

Executable UML is both a software development method and a highly abstract software language. It was described for the first time in 2002 in the book "Executable UML: A Foundation for Model-Driven Architecture". The language "combines a subset of the UML graphical notation with executable semantics and timing rules." The Executable UML method is the successor to the Shlaer-Mellor method. Executable UML models "can be run, tested, debugged, and measured for performance.", and can be ...

Executable UML - Wikipedia

It is designed to produce a comprehensive and understandable model of a solution independent of the organization of the software implementation. It is a highly abstract thinking tool that aids in the formalization of knowledge, and is also a way of describing the concepts that make up abstract solutions to software development problems. This timely new book, Executable UML: A Foundation for Model-Driven Architecture, thoroughly introduces, documents, and explains this important new technology.

Executable UML: A Foundation for Model-Driven Architecture ...

Executable UML: A Foundation for Model-Driven Architecture By Stephen J. Mellor, Marc J. Balcer Published May 14, 2002 by Addison-Wesley Professional. Part of the Addison-Wesley Object Technology Series series.

Executable UML: A Foundation for Model-Driven Architecture ...

Model Driven Architecture and eExecutable UML 1. www.kc.com Model Driven Architecture and eExecutable UML Allan Kennedy Founder, Kennedy Carter Ltd Co-chair, OMG Object Reference Model sub-committee K E N N E D Y C A R T E R 2.

Model Driven Architecture and eExecutable UML

Executable UML and Model Driven Architecture (MDA) 8Executable UML, BridgePoint, xtUML and MDA 2011-11-28 What is Executable UML? "Executable UML is a graphical specification language, combining a well-defined subset of UML with executable action semantics and rules for timing.

Executable UML Model Driven Architecture

As a foundation for Model-Driven Architecture, Executable UML provides the key technology for expressing application domains in a platform-independent manner. But Executable UML can do more than

formalize requirements and use cases into a rich set of verifiable diagrams.

Executable UML

In what it calls "model driven architecture," the OMG has provided a conceptual framework and a set of standards to express models, model relationships, and model-to-model transformations. Tools and technologies can help to realize this approach, and make it practical and efficient to apply.

An introduction to Model Driven Architecture

Model Driven Solutions is a leading provider of professional services and products that leverage Services Oriented Architecture (SOA), , Threat and Risk Information Federation and Analytics, Information Sharing, and executable models using the Model Driven Architecture and Semantic Web techniques and standards. We assist major organizations in achieving effectiveness and agility in a changing and collaborative world.

Model Driven Solutions

5.0 out of 5 stars Model Driven Architecture with Executable UML - Book Review Reviewed in the United States on April 25, 2006 This book provides a clear and detailed introduction to the method of developing complex software systems indicated by its title.

Amazon.com: Customer reviews: Model Driven Architecture ...

Executable Models The ultimate goal of MDA is to be able to compile models into code that runs on a specific (software) platform. Examples of platforms include J2SE, J2ME, J2EE, .Net, CORBA, MFC.

Model-Driven Architecture - SJSU

Executable Model Driven Architecture Association is a California Domestic Corporation filed on October 2, 2001. The company's filing status is listed as Suspended and its File Number is C2360858. The Registered Agent on file for this company is John W Statton and is located at One Mcinnis Pkwy, San Rafael, CA 94903.

Executable Model Driven Architecture Association in San ...

Using Executable UML (xUML), developers can build UML models that can not only be unambiguously interpreted by human readers, but can be tested and validated through actual execution, and ultimately translated directly and completely to target code.

Executable UML: A Foundation for Model-Driven Architecture ...

Enter model-driven architecture (MDA), a standard framework from the Object Management Group (OMG) that allows developers to link object models together to build complete systems. MDA prevents design decisions from being intertwined with the application and keeps it independent of its implementation. The result is an application that can be ...

MDA Distilled: Principles of Model-Driven Architecture [Book]

foundation for model driven architecture stephen j mellor marc j balcer executable uml is a major innovation in the field of software development it is designed to produce a comprehensive and understandable model of a solution independent of the organization of the software implementation

Executable Uml A Foundation For Model Driven Architecture

Model Driven Architecture® (MDA®) is an approach to software design, development and implementation spearheaded by the OMG. MDA provides guidelines for structuring software specifications that are expressed as models. MDA separates business and application logic from underlying platform technology.

Model Driven Architecture (MDA) | Object Management Group

It is a highly abstract thinking tool that aids in the formalization of knowledge, and is also a way of describing the concepts that make up abstract solutions to software development problems. This timely new book, Executable UML: A Foundation for Model-Driven Architecture, thoroughly introduces, documents, and explains this important new technology.

This book offers a unique insight into a revolution in software development that allows model specifications to be fully and efficiently translated into code. Using the most widely adopted, industry standard, software modelling language, UML, the reader will learn how to build robust specifications based on OMG's Model Driven Architecture (MDA). From there, the authors describe the steps needed to translate the Executable UML (xUML) models to any platform-specific implementation. The benefits of this approach go well beyond simply reducing or eliminating the coding stage - it also ensures platform independence, avoids obsolescence (programming languages may change, the model doesn't) and allows full verification of the models by executing them in a test and debug xUML environment. This is an excellent reference for anyone embarking on what is surely the future of software development for medium and large scale projects.

Online Library Model Driven Architecture With Executable Uml

Overviews the process of building and compiling executable UML models for software development. The book focuses on the BridgePoint tool suite and object action language developed by Project Technology. The authors discuss identifying system requirements, diagramming classes and attributes, constraints on the class diagram, ways of building sets of communicating statechart diagrams, and model verification. Annotation copyrighted by Book News, Inc., Portland, OR.

This book offers insight into a revolution in software development that will ultimately lead to automatic executable code generation directly from model specifications. Using the most widely adopted software modelling language, UML, it demonstrates the way to build robust specifications based on OMG's Model Driven Architecture (MDA). Chapters then describe the steps needed to move directly to executable code using Executable UML (XUML). The volume will be a useful reference for professionals concerned with the future of software development for medium- and large-scale projects.

MDA Distilled is an accessible introduction to the MDA standard and its tools and technologies. The book describes the fundamental features of MDA, how they fit together, and how you can use them in your organization today. You will also learn how to define a model-driven process for a project involving multiple platforms, implement that process, and then test the resulting system.

"Highlights of this book include: the MDA framework, including the Platform Independent Model (PIM) and Platform Special Model (PSM); OMG standards and the use of UML; MDA and Agile, Extreme Programming, and Rational Unified Process (RUP) development; how to apply MDA, including PIM-to-PSM and PSM-to-code transformations for Relational, Enterprise JavaBean (EJB), and Web models; transformations, including controlling and tuning, traceability, incremental consistency, and their implications; metamodeling; and relationships between different standards, including Meta Object Facility (MOF), UML, and Object Constraint Language (OCL)."--Jacket.

An integral element of software engineering is model engineering. They both endeavor to minimize cost, time, and risks with quality software. As such, model engineering is a highly useful field that demands in-depth research on the most current approaches and techniques. Only by understanding the most up-to-date research can these methods reach their fullest potential. Advancements in Model-Driven Architecture in Software Engineering is an essential publication that prepares readers to exercise modeling and model transformation and covers state-of-the-art research and developments on various approaches for methodologies and platforms of model-driven architecture, applications and software development of model-driven architecture, modeling languages, and modeling tools. Highlighting a broad range of topics including cloud computing, service-oriented architectures, and modeling languages, this book is ideally designed for engineers, programmers, software designers, entrepreneurs, researchers, academicians, and students.

For all software engineering courses on UML, object-oriented analysis and modeling, and analysis/modeling for real-time or embedded software. Executable UML is for students who want to apply object-oriented analysis and modeling techniques to real-world UML projects. Leon Starr presents the skills and techniques needed to build useful class models for creating precise, executable software specifications that generate target code in multiple languages and for multiple platforms. Leon, who wrote the definitive guide to Shlaer-Mellor modeling, emphasizes the practical use of executable UML modeling, presenting extensive examples from real-time embedded and scientific applications. Using the materials in his How to Build Shlaer-Mellor Object Models as a starting point, Leon presents an entirely new introduction to Executable UML, expresses all diagrams in Executable UML notation, and adds advanced new object modeling techniques.

Model-Driven Software Development (MDSD) is currently a highly regarded development paradigm among developers and researchers. With the advent of OMG's MDA and Microsoft's Software Factories, the MDSD approach has moved to the centre of the programmer's attention, becoming the focus of conferences such as OOPSLA, JAOO and OOP. MDSD is about using domain-specific languages to create models that express application structure or behaviour in an efficient and domain-specific way. These models are subsequently transformed into executable code by a sequence of model transformations. This practical guide for software architects and developers is peppered with practical examples and extensive case studies. International experts deliver: * A comprehensive overview of MDSD and how it relates to industry standards such as MDA and Software Factories. * Technical details on meta modeling, DSL construction, model-to-model and model-to-code transformations, and software architecture. * Invaluable insight into the software development process, plus engineering issues such as versioning, testing and product line engineering. * Essential management knowledge covering economic and organizational topics, from a global perspective. Get started and benefit from some practical support along the way!

Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website.

Learn how to translate an executable model of your application into running code. This is not a book about theory, good intentions or possible future developments. You will benefit from translation technology and solid software engineering principles that are demonstrated with concrete examples using an open source tool chain. Models don't deliver enough value if they are not on a direct path to code production. But to waste time building models that are merely pictures of your code doesn't add much value either. In this book, you will translate detailed, yet platform-independent models that solve real application problems. Using a pragmatic approach, Models to Code quickly dives into two case studies of Executable UML models. The models and code are extensively annotated and illustrate key principles that are emphasized throughout the book. You will work with code production using "C" as the implementation language and targeting microcomputer class processors. This might not be your particular target language or platform, but you can use what you learn here to engineer or re-evaluate your own code translation system to dramatically increase the value of both your modeling and code generation solution. Written by three leading experts, Models to Code is an exceptional resource for producing software by model translation - add it to your library today. What You'll Learn See how detailed models resolve ambiguity and contradiction common in requirements. Examine how a model can be detailed enough to be executable and testable while remaining platform independent Produce code from a model,

leaving the model intact so it can be redeployed on new platforms or adapted to changing software and hardware technology. Implement platform independent model execution rules in platform specific run-time code Who This Book Is For Modelers and systems engineers on active MBSE projects (using Executable UML or not), projects using Simulink, Matlab, Dymola, MatrixX and other math modelling tools. Any developers with current or past model experience, professors, students, systems engineers, embedded systems developers, or anyone interested in learning more about software modelling.

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