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# Use Case Driven Object Modeling with UML

*A Practical Approach*

**Doug Rosenberg**

with

**Kendall Scott**



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# Use Case Driven Object Modeling With Uml A Practical Approach

**Richard Denney**



## **Use Case Driven Object Modeling With Uml A Practical Approach:**

**Use Case Driven Object Modeling with UML: a Practical Approach** Doug Rosenberg,1999      **Use Case Driven Object Modeling with UML Theory and Practice** Don Rosenberg,Matt Stephens,2008-06-28 Use Case Driven Object Modeling with UML Theory and Practice shows how to drive an object oriented software design from use case all the way through coding and testing based on the minimalist UML based ICONIX process In addition to a comprehensive explanation of the foundations of the approach the book makes extensive use of examples and provides exercises at the back of each chapter This book leads by example It demonstrates common analysis and design errors shows how to detect and fix them and suggests how to avoid making the same errors in the future The book also encourages you to examine its UML examples and to search for specific errors You ll get clues then later receive the answers during review sessions toward the end of the book

**Use Case Driven Object Modeling With Uml: Theory And Practice** Doug Rosenberg,Matt Stephens,2007-07-31 Use Case Driven Object Modeling with UML Theory and Practice shows how to drive an object oriented software design from use case all the way through coding and testing based on the minimalist UML based ICONIX process In addition to a comprehensive explanation of the foundations of the approach the book makes extensive use of examples and provides exercises at the back of each chapter Introduction to ICONIX Process Domain Modeling Use Case Modeling Requirements Review Robustness Analysis Preliminary Design Review Technical Architecture Sequence Diagrams Critical Design Review Implementation Getting from Detailed Design to Code Code Review and Model Update Design Driven Testing Addressing Requirements

Use Case Driven Object Modeling with UML Doug Rosenberg,Kendall Scott,1999 This compact book helps application developers bridge the gap between the theory of the newly created Unified Software Development Process and the practical realities necessary to design and build a software system The authors present the key ingredients of the Unified Process and demonstrate how the process was conceived to work with UML emphasizing the application of Use Cases as a primary design tool The book incorporates a wealth of practical experience showcased by four case studies a hospital information system a video on demand system a portfolio management system and a vehicle navigation IVHS system

Use Case Modeling Kurt Bittner,Ian Spence,2003 Discusses how to define and organize use cases that model the user requirements of a software application The approach focuses on identifying all the parties who will be using the system then writing detailed use case descriptions and structuring the use case model An ATM example runs throughout the book The authors work at Rational Software Annotation copyrighted by Book News Inc Portland OR

MDA Explained Anneke G. Kleppe,Jos B. Warmer,Wim Bast,2003 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 The Rational Unified Process Made Easy Per Kroll, Philippe Kruchten, 2003 The authors explain the underlying software development principles behind the RUP and guide readers in its application in their organization Applied Software Architecture Christine Hofmeister, Robert Nord, Dilip Soni, 2000 Designing a large software system is an extremely complicated undertaking that requires juggling differing perspectives and differing goals and evaluating differing options Applied Software Architecture is the best book yet that gives guidance as to how to sort out and organize the conflicting pressures and produce a successful design Len Bass author of Software Architecture in Practice Quality software architecture design has always been important but in today's fast paced rapidly changing and complex development environment it is essential A solid well thought out design helps to manage complexity to resolve trade offs among conflicting requirements and in general to bring quality software to market in a more timely fashion Applied Software Architecture provides practical guidelines and techniques for producing quality software designs It gives an overview of software architecture basics and a detailed guide to architecture design tasks focusing on four fundamental views of architecture conceptual module execution and code Through four real life case studies this book reveals the insights and best practices of the most skilled software architects in designing software architecture These case studies written with the masters who created them demonstrate how the book's concepts and techniques are embodied in state of the art architecture design You will learn how to create designs flexible enough to incorporate tomorrow's technology use architecture as the basis for meeting performance modifiability reliability and safety requirements determine priorities among conflicting requirements and arrive at a successful solution and use software architecture to help integrate system components Anyone involved in software architecture will find this book a valuable compendium of best practices and an insightful look at the critical role of architecture in software development

0201325713B07092001 **MDA Distilled** Stephen J. Mellor, 2004 A readable and much needed introduction to MDA Dr Jim Arlow coauthor of UML and the Unified Process Addison Wesley 2002 and Enterprise Patterns and MDA Addison Wesley 2004 This book provides an excellent introduction to the ideas and technologies that will form the foundation of the model driven architecture over the coming years I recommend it wholeheartedly Dr Andy Evans Managing Director Xactium Limited UK Excellent job of distilling MDA down to its core concepts Krzysztof Czarnecki University of Waterloo coauthor of Generative Programming Addison Wesley 2000 As systems have grown more crucial to the operations of organizations worldwide so too have the costs associated with building and maintaining them 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 combined with other technologies as well as other applications and

models that become highly reusable assets 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 MDA Distilled will help you understand The MDA framework including the platform independent model PIM and the platform specific model PSM The Meta Object Facility MOF the OMG s adopted standard for metamodeling Horizontal vertical and merging mappings between models Building marks and marking models Elaborating models including viewing generated models and managing manual changes Building executable models with Executable UML Agile MDA development Developers and architects can dramatically improve productivity portability interoperability and maintenance with MDA Find out how with this essential reference and quickly learn how to harness the significant power of this new framework

**Aspect-oriented Software Development with Use Cases** Ivar Jacobson, Pan-Wei Ng, 2005 A refreshingly new approach toward improving use case modeling by fortifying it with aspect orientation Ramnivas Laddad author of AspectJ in Action Since the 1980s use cases have been a way to bring users into software design but translating use cases into software has been an art at best because user goods often don t respect code boundaries Now that aspect oriented programming AOP can express crosscutting concerns directly in code the man who developed use cases has proposed step by step methods for recognizing crosscutting concerns in use cases and writing the code in separate modules If these methods are at all fruitful in your design and development practice they will make a big difference in software quality for developers and users alike Wes Isberg AspectJ team member This book not only provides ideas and examples of what aspect oriented software development is but how it can be utilized in a real development project Michael Ward ThoughtWorks Inc No system has ever been designed from scratch perfectly every system is composed of features layered in top of features that accumulate over time Conventional design techniques do not handle this well and over time the integrity of most systems degrades as a result For the first time here is a set of techniques that facilitates composition of behavior that not only allows systems to be defined in terms of layered functionality but composition is at the very heart of the approach This book is an important advance in modern methodology and is certain to influence the direction of software engineering in the next decade just as Object Oriented Software Engineering influenced the last Kurt Bittner IBM Corporation Use cases are an excellent means to capture system requirements and drive a user centric view of system development and testing This book offers a comprehensive guide on explicit use case driven development from early requirements modeling to design and implementation It provides a simple yet rich set of guidelines to realize use case models using aspect oriented design and programming It is a valuable resource to researchers and practitioners alike Dr Awais Rashid Lancaster University U K and author of Aspect Oriented Database Systems AOSD is important technology that will help developers produce better systems Unfortunately it has not been obvious how to integrate AOSD across a project s

lifecycle This book shatters that barrier providing concrete examples on how to use AOSD from requirements analysis through testing Charles B Haley research fellow The Open University U K Aspect oriented programming AOP is a revolutionary new way to think about software engineering AOP was introduced to address crosscutting concerns such as security logging persistence debugging tracing distribution performance monitoring and exception handling in a more effective manner Unlike conventional development techniques which scatter the implementation of each concern into multiple classes aspect oriented programming localizes them Aspect oriented software development AOSD uses this approach to create a better modularity for functional and nonfunctional requirements platform specifics and more allowing you to build more understandable systems that are easier to configure and extend to meet the evolving needs of stakeholders In this highly anticipated new book Ivar Jacobson and Pan Wei Ng demonstrate how to apply use cases a mature and systematic approach to focusing on stakeholder concerns and aspect orientation in building robust and extensible systems Throughout the book the authors employ a single real world example of a hotel management information system to make the described theories and practices concrete and understandable The authors show how to identify design implement test and refactor use case modules as well as extend them They also demonstrate how to design use case modules with the Unified Modeling Language UML emphasizing enhancements made in UML 2 0 and how to achieve use case modularity using aspect technologies notably AspectJ Key topics include Making the case for use cases and aspects Capturing and modeling concerns with use cases Keeping concerns separate with use case modules Modeling use cases slices and aspects using the newest extensions to the UML notation Applying use cases and aspects in projects Whatever your level of experience with aspect oriented programming *Aspect Oriented Software Development with Use Cases* will teach you how to develop better software by embracing the paradigm shift to AOSD

The Rational Unified Process Philippe Kruchten,2004 bull Reflects all of the changes that were integrated into RUP v2003 the latest version of the very popular product bull Learn the key concepts fundamentals of structure integral content and motivation behind the RUP bull Covers all phases of the software development lifecycle from concept to delivery to revision

*Modeling XML Applications with UML* David Carlson,2001 XML is rapidly becoming the standard platform for delivering e Business information and integrating e Business systems XML developers desperately need mature software development processes and tools for developing effective applications David Carlson fills the gap showing exactly how to leverage the worldwide UML standard for modeling complex systems in advanced XML development In *Modeling XML Applications with UML* he presents the first comprehensive framework for modeling communications in any B2B software system Carlson presents in depth coverage of UML based analysis design and modeling of XML content within e Business environments The book includes detailed coverage of using UML to support the creation of new XML based B2B vocabularies and industry portals that reflect the requirements of several key stakeholder communities including consumers business analysts web application specialists system integration specialists and content

developers Carlson presents several B2B use cases and then decomposes them into scenarios illustrated with class diagrams sequence diagrams and activity diagrams showing how XML fits into an overall e Business solution Each chapter concludes with steps for success that distill UML s general principles into specific recommendations for action Object Modeling and User Interface Design Mark Van Harmelen,2001 Object Modeling and User Interface Design merges theories with practical techniques to create methods for the design to today s systems By reading this book you will gain an understanding of the benefits of integrating object oriented analysis approaches with human computer interaction design and learn how to systematically design interactive systems for their human users BOOK JACKET **Practical J2EE Application Architecture** Nadir Gulzar,2003-06-27 Provides developers with a complete roadmap for building large scale J2EE applications You will get a cohesive approach for producing optimal solutions through rigorous life cycle management techniques from inception through deployment Includes sample Web site hosted by the authors that features real world demonstrations of all the book s concepts **Designing Software Product Lines with UML** Hassan Gomaa,2005 Designing Software Product Lines with UML is well written informative and addresses a very important topic It is a valuable contribution to the literature in this area and offers practical guidance for software architects and engineers Alan Brown Distinguished Engineer Rational Software IBM Software Group Gomaa s process and UML extensions allow development teams to focus on feature oriented development and provide a basis for improving the level of reuse across multiple software development efforts This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent reusable and modular in nature Jeffrey S Hammond Group Marketing Manager Rational Software IBM Software Group This book brings together a good range of concepts for understanding software product lines and provides an organized method for developing product lines using object oriented techniques with the UML Once again Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers Robert G Pettit IV Ph D Adjunct Professor of Software Engineering George Mason University This breakthrough book provides a comprehensive step by step approach on how to develop software product lines which is of great strategic benefit to industry The development of software product lines enables significant reuse of software architectures Practitioners will benefit from the well defined PLUS process and rich case studies Hurley V Blankenship II Program Manager Justice and Public Safety Science Applications International Corporation The Product Line UML based Software engineering PLUS is leading edge With the author s wide experience and deep knowledge PLUS is well harmonized with architectural and design pattern technologies Michael Shin Assistant Professor Texas Tech University Long a standard practice in traditional manufacturing the concept of product lines is quickly earning recognition in the software industry A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments When skillfully implemented a product line

strategy can yield enormous gains in productivity quality and time to market Studies indicate that if three or more systems with a degree of common functionality are to be developed a product line approach is significantly more cost effective To model and design families of systems the analysis and design concepts for single product systems need to be extended to support product lines Designing Software Product Lines with UML shows how to employ the latest version of the industry standard Unified Modeling Language UML 2 0 to reuse software requirements and architectures rather than starting the development of each new system from scratch Through real world case studies the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines This book describes a new UML based software design method for product lines called PLUS Product Line UML based Software engineering PLUS provides a set of concepts and techniques to extend UML based design methods and processes for single systems in a new dimension to address software product lines Using PLUS the objective is to explicitly model the commonality and variability in a software product line Hassan Gomaa explores how each of the UML modeling views use case static state machine and interaction modeling can be extended to address software product families He also discusses how software architectural patterns can be used to develop a reusable component based architecture for a product line and how to express this architecture as a UML platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2 0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics

**The Art of ClearCase Deployment** Christian D. Buckley, Darren W. Pulsipher, 2005

**Component-based Product Line Engineering with UML** Colin Atkinson, 2002 A cutting edge UML based approach to software development and maintenance that integrates component based and product line engineering methods ripe market development of component based technologies is a major growth area CBD viewed as a faster more flexible way of building systems that can easily be adapted to meet rapidly changing business needs and integrate legacy and new applications e g

Forrester report in June 1998 predicted that by 2001 half of packaged apps vendors will deliver component based apps e g Butler Group Management Briefing 2000 Butler Group is now advising that all new build and significant modification activity should be based on component architectures Butler Group believes that Component Based Development is one of the most important events in the evolution of information technology e g Gartner Group estimates that by 2003 70% of new applications will be deployed as a combination of pre assembled and newly created components integrated to form complex business systems The book defines describes and shows how to use a method for component based product line engineering supported by UML This method aims to dramatically increase the level of reuse in software development by integrating the strengths of both of these approaches UML is used to describe components during the analysis design ERP business software system as appendix or separate chapter bibliography glossary appendices covering UML profiles concise process description in the form of UML activity diagrams refinement translation patterns AUDIENCE Software engineers architects project managers Software engineers working in the area of distributed enterprise systems who want a method for applying a component based or product line engineering approach in practice Succeeding with Use Cases Richard Denney,2005 From best selling author and noted teacher and speaker Yehuda Berg comes a thought provoking call to action on our current global crisis Positing that our collective abdication of responsibility in every facet of our lives including business and the economy the environment government and politics healthcare education and religion has contributed to the problems and challenges we face Berg asserts that taking responsibility for our actions or lack thereof and their consequences is the key to achieving change for the better Berg urges readers to access the power within each of us using the principles of Kabbalah in order to create the consciousness shift required for lasting positive change **UML and the Unified Process** Jim Arlow,Ila Neustadt,2002 1 What is UML 2 What is the Unified Process 3 The requirements workflow 4 Use case modeling 5 Advanced use case modeling 6 The analysis workflow 7 Objects and classes 8 Finding analysis classes 9 Relationships 10 Inheritance and polymorphism 11 Analysis packages 12 Use case realization 13 Advanced use case realization 14 The design workflow 15 Design classes 16 Refining analysis relationships 17 Interfaces and components 18 Use case realization design 19 Basic statecharts 20 Advanced statecharts 21 The implementation workflow 22 Components 23 Deployment *Aspect-oriented Analysis and Design* Siobhán Clarke,Elisa Baniassad,2005 An introduction for developers who need practical information to make the significant shift to aspect oriented development

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