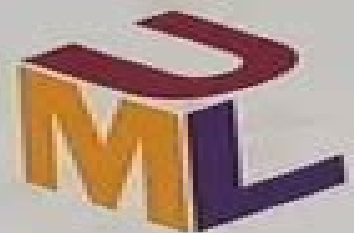# Use Case Driven Object Modeling with UML

A Practical Approach

DOUG ROSENBERG

WITH **KENDALL SCOTT**

UML

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Use Case Driven Object Modeling With Uml A Practical Approach

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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 UMLTheory 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   *A Practical Guide to Testing Object-oriented Software* John D. McGregor,David A. Sykes,2001 David A Sykes is a member of Wofford College s faculty   **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 Object Constraint Language Jos B. Warmer,Anneke G. Kleppe,2003 bull Learn to better leverage the siginificant power of UML 2 0 and the Model Driven Architecture standard bull The OCL helps developers produce better software by adding vital definition to their designs bull Updated to reflect the latest version of the standard OCL 2 0   **Testing Object-oriented Systems** Robert Binder,2000 More than ever mission critical and business critical applications depend on object oriented OO software Testing techniques tailored to the unique challenges of OO technology are necessary to achieve high reliability and quality Testing Object Oriented Systems Models Patterns and Tools is an authoritative guide to designing and automating test suites for OO applications This comprehensive book explains why testing must be model based and provides in depth coverage of techniques to develop testable models from state machines combinational logic and the Unified Modeling Language UML It introduces the test design pattern and presents 37 patterns that explain how to design responsibility based test suites how to tailor integration and regression testing for OO code how to test reusable components and frameworks and how to develop highly effective test suites from use cases Effective testing must be automated and must leverage object technology The author describes how to design and code specification based assertions to offset testability losses due to inheritance and polymorphism Fifteen micro patterns present oracle strategies practical solutions for one of the hardest problems in test design Seventeen design patterns explain how to automate your test suites with a coherent OO test harness framework The author provides thorough coverage of testing issues such as The bug hazards of OO programming and differences from testing procedural code How to design responsibility based tests for classes clusters and subsystems using class invariants interface data flow models hierarchic state machines class associations and scenario analysis How to support reuse by effective testing of abstract classes generic classes components and frameworks How to choose an integration strategy that supports iterative and incremental development How to achieve comprehensive system testing with testable use cases How to choose a regression test approach How to develop expected test results and evaluate the post test state of an object How to automate testing with assertions OO test drivers stubs and test frameworks Real world experience world class best practices and the latest research in object oriented testing are included Practical examples illustrate test design and test automation for Ada 95 C Eiffel Java Objective C and Smalltalk The UML is used throughout but the test design patterns apply to systems developed with any OO language or methodology 0201809389B04062001   *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 produc t 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

<u>with UML</u> 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 **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

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 **The Art of**

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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   Developing Enterprise Java Applications with J2EE and UML Khawar Zaman Ahmed,Cary E. Umrysh,2002 The Java 2 Platform Enterprise Edition J2EE TM offers great promise for dramatically improving the way that enterprise applications are built and organizations that have adopted the J2EE are gaining a competitive advantage The industry standard Unified Modeling Language UML has helped countless organizations achieve software success through visual modeling Together the UML and J2EE form a powerful set of tools but the intricacies involved with using them in tandem are considerable While UML is highly effective for specifying designing constructing visualizing and documenting software systems J2EE offers enterprise developers a simplified component based approach to application development However when using the two technologies together developers must first consider and attempt to reconcile the different characteristics of each Developing Enterprise Java Applications with J2EE TM and UML examines the best ways to jointly leverage these technologies Exploring concrete methods for completing a successful development project the authors cover the use of UML and J2EE in detail Using practical examples and a case study they illustrate the pros and cons of specific design approaches show how personal experience can affect design decisions and demonstrate proven approaches for building better software faster With this book as a guide developers will be able to overcome the challenges in using UML and J2EE together and be on their way to building robust scalable and complex applications 0201738295B09042001   Building J2EE Applications with the Rational Unified Process Peter Eeles,Kelli Houston,Wojtek Kozaczynski,2003 PLEASE PROVIDE SUMMARY   **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

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