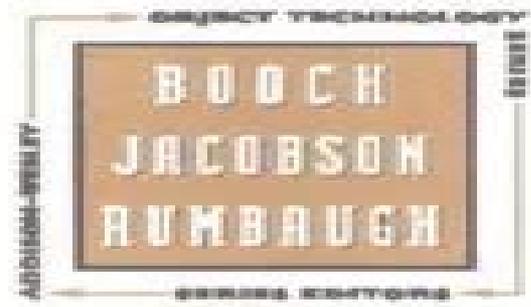




ASPECT-ORIENTED SOFTWARE DEVELOPMENT WITH USE CASES

IVAR JACOBSON
PAN-WEI NG



Aspect Oriented Software Development With Use Cases

Chao Zhang



Aspect Oriented Software Development With Use Cases:

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

Transactions on Aspect-Oriented Software Development VII Jörg Kienzle, 2010-09-17 Those who want to learn about AOM and in this special issue a concise collection of descriptions of solid and mature AOM approaches They only have to take the time to understand one case study in order to appreciate the sample models shown in all papers Those who want to apply AOM for a particular purpose and are looking for the most appropriate AOM technique can use the papers presented in this special issue to identify the most promising approaches By identifying similarities between their problem and the case study they should be able to determine candidate AOM approaches easily Those working on their own AOM approach can readily identify approaches that were able to handle concerns that their own approach is not able to handle elegantly This stimulates cross fertilization between approaches and collaborative research Those engineering researchers that are working on enhancing software development processes can use the example models presented in this special issue to understand the potential benefits of using AOM techniques at different phases of the software development life cycle

Using Aspect-Oriented Programming for Trustworthy Software Development Vladimir O. Safonov, 2008-06-09 Learn how to successfully implement trustworthy computing tasks using aspect oriented programming This landmark publication fills a gap in the literature by not only describing the basic concepts of trustworthy computing TWC and aspect oriented programming AOP but also exploring their critical interrelationships The author clearly demonstrates how typical TWC tasks such as security checks in and out conditions and multi threaded safety can be implemented using AOP Following an introduction the book covers Trustworthy computing software engineering and computer science Aspect oriented programming and Aspect NET Principles and case studies that apply AOP to TWC Coverage includes Aspect NET the AOP framework developed by the author for the Microsoft NET platform currently used in seventeen countries The author discusses the basics of Aspect NET architecture its advantages compared to other AOP tools and its functionality The book has extensive practical examples and case studies of trustworthy software design and code using the Aspect NET framework In addition the book explores other software

technologies and tools for using AOP for trustworthy software development including Java and AspectJ This book also includes a valuable chapter dedicated to ERATO the author s teaching method employed in this book which has enabled thousands of students to quickly grasp and apply complex concepts in computing and software engineering while the final chapter presents an overall perspective on the current state of AOP and TWC with a view toward the future Software engineers architects developers programmers and students should all turn to this book to learn this tested and proven method to create more secure private and reliable computing

Databases and Information Systems IV Olegas Vasilecas, Johann Eder, Albertas Caplinskas, 2007 Contains papers that present original results in business modeling and enterprise engineering database research data engineering data quality and data analysis IS engineering Web engineering and application of AI methods

Models in Software Engineering Holger Giese, 2008-07 This book constitutes the thoroughly refereed post workshop proceedings of 10 international workshops and 2 symposia held as satellite events of the 10th International Conference on Model Driven Engineering Languages and Systems MoDELS 2007 in Nashville TN USA in September October 2007 see LNCS 4735 The 29 revised full papers were carefully selected for inclusion in the book and are presented along with a doctoral and an educators symposium section The papers are organized in topical sections representing the various workshops aspect oriented modeling AOM 2007 language engineering ATEM2007 model driven development of advanced user interfaces MDDAUI 2007 model size metrics MSM 2007 model based design of trustworthy health information systems MOTHIS 2007 model driven engineering verification and validation MoDeVVA 2007 modelling systems with OCL Ocl4All 2007 Models run time multi paradigm modeling concepts and tools MPM 2007 quality in modeling doctoral symposium and educators symposium

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

Aspect-oriented Software Development Robert E. Filman, 2005 The definitive reference on the emerging and dynamic field of Aspect Oriented Software Development AOSD

Using Aspect-Oriented Programming for Trustworthy Software Development Vladimir O. Safonov, 2008-05-19 Abstract

ATL Internals Chris Tavares, 2007 The Active Template Library ATL is a set of small efficient and flexible classes created by Microsoft that facilitate the creation of interoperable components for developing Windows applications The latest version of ATL is version 8 released with Visual Studio 2005 While NET has been getting all the attention recently there is still a huge base of installed COM ATL code Many programmers are dealing with difficult issues adding new NET code to that installed base At the same time there are many instances where ATL is still the superior choice for new applications applications that have to run fast and efficiently on Windows where the CPU doesn t have the memory or bandwidth to run NET This book will be a godsend to developers in both of those situations As one tech reviewer put it Any programmer needing to transition ATL code to NET will need this book The first edition was widely praised and sold close to 20 000 units While ATL is no longer the cutting edge of

Microsoft developer tools there should still be a strong market for authoritative complete deep coverage of the newest version of this standard tool

Software Development, 2005 ECOOP..., 2005 **Software Engineering, The Development Process** Richard H. Thayer, Mark J. Christensen, 2005-11-11 This book integrates a useful set of software engineering standards with accompanying papers on specific knowledge areas in software engineering Used as a CSDP resource guide it should improve a test taker's ability to pass the IEEE CSDP Certified Software Development Professionals exam

Transactions on Aspect-Oriented Software Development VI Robert B. France, Shmuel Katz, Harold Ossher, Jean-Marc Jezequel, 2009-10-26 work for small problems but it introduces significant accidental complexities when tackling larger problems Not that the real challenge here is not how to design the system to take a particular aspect into account there is significant design know-how in industry on this and it is often captured in the form of design patterns Taking into account more than one aspect can be a little harder but many large scale successful projects in industry provide some evidence that engineers know how different concerns should be handled The real challenge is reducing the effort that the engineer has to expend when grappling with many interdependent concerns For example in a product line context when an engineer wants to replace a variant of an aspect used in a system she should be able to do this cheaply quickly and safely Manually weaving every aspect is not an option Unlike many models used in the sciences models in software and in linguistics have the same nature as the things they model In software this provides an opportunity to automatically derive software from its model that is to automate the weaving process This requires models to be formal and the weaving process be described as a program in an executable meta-model manipulating models to produce a detailed design The detailed design produced by the weaving process can ultimately be transformed to code or at least test suites

Logging and Simulation using Aspect Oriented Software Mutum Meetei, 2014-12-17 Document from the year 2014 in the subject Computer Science Applied course Applied Mathematics language English abstract Software testing is a process designed to make sure computer code does what it is designed to do and that it doesn't do anything unintended It is used to achieve quality assurance verification validation and reliability estimation It is a major quality control measure used during the software development Testing is the process of operating a system or component under specified conditions observing or recording the results and making an evaluation of some aspect of system or a component Testing of software is done at different levels of abstraction unit integration and system levels During testing of software there is a need to observe the internal and external execution details of the software The internal execution details are required for the diagnosis of incorrect output during testing and to ensure correctness of processing in case of a correct output Without observing the internal execution details the incorrect results may appear to be correct Logging is a systematic method of recording the internal information of software It is one of the typical examples of crosscutting concern concerns that are common to many of the core modules that span multiple modules By examining the log an unexpected system behavior can be identified and corrected It acts as a diagnostic assistant to reveal the inner

working of a system Logging is also used for different purposes like debugging testing auditing performance monitoring code profiling etc Besides logging the theory of random phenomena has always had widespread appeal not least because of its application to games of chance and speculation The fundamental notion is that of the expected value of a bet The Monte Carlo method computes this expected value by simulating a large number of scenarios and averaging the observed payoff of the bet over all scenarios The simulation of the scenarios is best performed by a computer program Computational power is becoming cheap and programming languages more powerful and more elegant Object orientation in particular represents a significant advance over procedural programming Aspect oriented programming AOP is a new programming paradigm 35 It is popular for the use of modularizing concerns that that cross cut the basic functionality of a program like logging AOP has provided a new mechanism for encapsulating crosscutting concern in a module unit call aspect The advantages of simulation techniques using AOP is discussed The Unified Modeling Language ,1999 **Software Architecture** ,2005 **Dr. Dobb's Journal** ,2008 **Generative Programming and Component Engineering** ,2003 **American Book Publishing Record** ,2005

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