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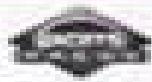
Object-Oriented Software Engineering

A Use Case Driven Approach

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Object Oriented Software Engineering A Use Case Driven Approach

Bernd Bruegge,Allen H. Dutoit

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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

   Visual Modeling with Rational Rose 2000 and UML Terry Quatrani,2000 The first UML book to cover Rational Rose 2000 this brand new edition reviews the three key interrelated components of state of the art software system design the Rational Unified process the Unified Modeling Language and Rational Rose 2000 Then through a simplified case study it walks developers through a real world business system Includes screen shots demonstrating UML at work in the Rational Rose 2000 modeling tool   Generative and Component-Based Software Engineering Jan Bosch,2003-06-30 The size complexity and integration level of software systems is increasing c stantly Companies in all domains identify that software de nes the competitive edge of their products These developments require us to constantly search for new approaches to increase the productivity and quality of our software velopment and to decrease the cost of software maintenance Generative and component based technologies hold considerablepromise with respect to achi ing these goals GCSE 2001 constituted another important step forward and provided a platform for academic and industrial researchers to exchange ideas These proceedings represent the third conference on generative and com nent based software engineering The conference originated as a special track on generative programming from the Smalltalk and Java in Industry and ucation Conference STJA organized by the working group Generative and Component Based Software Engineering of the Gesellschaft fur Informatik FG 2 1 9 Object Oriented Software Engineering However the conference has evolved substantially since then with its own independent stature invited speakers and most importantly a stable and growing community This year s conference attracted 43 submissions from all over the world dicating the broad international interest in the research eld Based on careful review by the program committee 14 papers were selected for presentation I would like to thank the members of the program committee all renowned perts for their dedication in preparing thorough reviews of the submissions   **Object Oriented Software Engineering** Jacobson,   Knowledge-based Software Engineering Joint Conference on Knowledge-Based Software Engineering,2012 As knowledge based software engineering matures and increasingly automates the software engineering life cycle software engineering resources are shifting towards knowledge acquisition and the automated reuse of expert knowledge for developing software artifacts This book summarizes the work and new research results presented at the Tenth Joint Conference on Knowledge based Software Engineering JCKBSE 2012 held on the island of Rhodes Greece in August 2012 The biennial Joint Conference on Knowledge Based Software Engineering brings together researchers and practitioners to share ideas on the foundations techniques tools and applications of knowledge based

software engineering theory and practice Topics addressed include theoretical foundations practical techniques software tools applications and or experience reports in knowledge based software engineering This book is published in the subseries Knowledge Based Intelligent Engineering Systems KBIES   *Component-Based Software Engineering* Grace A. Lewis,Iman Poernomo,Christine Hofmeister,2009-06-09 The 2009 Symposium on Component Based Software Engineering CBSE 2009 was the 12thin a series ofsuccessful eventsthat havegrowninto the main forum for industrial and academic experts to discuss component technology Component based software engineering CBSE has emerged as the under ing technology for the assembly of exible software systems In essence CBSE is about composing computational building blocks to construct larger building blocks that ful ll client needs Most software engineers are involved in some form of component based development Nonetheless the implications of CBSE adoption are wide reaching and its challenges grow in tandem with its uptake continuing to inspire our scienti c speculation Component based development necessarily involves elements of software chitecture modular software design software veri cation testing con guration and deployment This year s submissions represent a cross section of CBSE search that touches upon all these aspects The theoretical foundations of c ponent speci cation composition analysis and veri cation continue to pose research challenges What exactly constitutes an adequate semantics for c munication and composition so that bigger things can be built from smaller things How can formal approaches facilitate predictable assembly through b ter analysis We have grouped the proceedings into two sub themes that deal with these issues component models and communication and composition At the same time the world is changing

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 memberThis 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 MichaelWard 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 CorporationUse 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 *Object-oriented Software Engineering* Bernd Bruegge,Allen H. Dutoit,2010 This textbook develops a long term single project and explores both the theoretical foundations of software engineering as well as the principles and practices of various tools processes and products It emphasizes practical experience whereby participants can apply the techniques learned in class to a realistic problem *Software Reuse* Ivar Jacobson,Martin Griss,Patrik Jonsson,1997 Introducing the reuse driven software engineering business Architectural style Processes Organizing a reuse business *Journal of Object-oriented Programming*

,2001   *Transition to Object-Oriented Software Development* Mohamed E. Fayad,Mauri Laitinen,1998-09-10 A complete blueprint for transitioning your organization to object oriented systems Transition to Object Oriented Software Development This book will save you the frustration wasted time and massive cost overruns often associated with transitions to object oriented technologies Using numerous case studies the authors identify the technical management and cultural challenges involved and show you how to overcome those challenges They arm you with proven tactics for avoiding common traps and pitfalls And they outfit you with a comprehensive transitioning framework for dealing with all aspects of gearing up to object oriented technology including Selecting the best object oriented methods tools and development environments Planning and budgeting projects Staffing and training Preparing your organizational culture for object oriented technology Tracking and controlling projects Documenting object oriented development Creating practical metrics Developing workable strategies for legacy systems reuse Object engineering mission critical systems Designing without specs Delivering shrink wrapped software products Maintaining systems post development Visit our Web site at www wiley com compbooks

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