Beyond Software Architecture

Creating and Sustaining Winning Solutions

Luke Hohmann

Forewords by Martin Fowler and Guy Kawasaki

Beyond Software Architecture Creating And Sustaining Winning Solutions

Lingjun Ying

Beyond Software Architecture Creating And Sustaining Winning Solutions:

    Beyond Software Architecture Luke Hohmann,2003-01 This text aims to help all members of the development team make the correct nuts and bolts architecture decisions that ensure project success *Beyond Software Architecture* Luke Hohmann,2003-01-30 Successfully managing the relationship between business and technology is a daunting task faced by all companies in the twenty first century Beyond Software Architecture is a practical guide to properly managing this mission critical relationship In our modern economy every software decision can have a significant impact on business conversely most business decisions will influence a software application s viability This book contains keen insights and useful lessons about creating winning software solutions in the context of a real world business Software should be designed to deliver value to an organization but all too often it brings turmoil instead Powerful applications are available in the marketplace but purchasing or licensing these technologies does not guarantee success Winning solutions must be properly integrated into an organization s infrastructure Software expert Luke Hohmann teaches you the business ramifications of software architecture decisions and further instructs you on how to understand and embrace the business issues that must be resolved to achieve software success Using this book as a roadmap business managers and development teams can safely navigate the minefield of important decisions that they face on a regular basis The resulting synergy between business and technology will allow you to create winning technology solutions and ensure your organization s success now and in the future **Software Architecture for Business** Lina Khalid,2019-08-03 This book illustrates the role of software architecture and its application in business The author describes enterprise architecture along with business architecture to show the role of software architecture in both areas The place of software architecture in business is outlined from many perspectives in this context The book outlines quality attributes and how managers can use software architecture to build high quality products Topics include business software architecture dealing with qualities achieving quality attributes managing business qualities software product line Internet of Things IOT and Service Oriented Business Architecture The book is intended to benefit students researchers software architects and business architects Provides quick and easy access to all the important aspects of software architecture in business Highlights a wide variety of concepts of software architecture in a straightforward manner for students practitioners or architects Presents different applications of software architecture in business

    Winning Credibility Matthew Michalewicz,2009-07-27 More than half of new businesses fail within five years and many of those that endure can t seem to bridge the gulf between just surviving and true success If you want to beat the odds then your business will need Winning Credibility This book is a practical how to guide for overcoming the hurdles that all entrepreneurs face when starting and growing a business Serial entrepreneurs Matthew Michalewicz and Zbigniew Michalewicz provide countless out of the box solutions for winning that first major client signing up partners and resellers building an all star management team leveraging new customers from existing customers the media and analysts engaging

high profile board members investors who provide more than just money and much more Explained in simple and easy to understand terms the credibility building principles in this book can give your business a winning edge **Managed Evolution** Stephan Murer,Bruno Bonati,2010-10-29 Many organizations critically depend on very large information systems In the authors experience these organizations often struggle to find the right strategy to sustainably develop their systems Based on their own experience at a major bank over more than a decade the authors have developed a successful strategy to deal with these challenges including A thorough analysis of the challenges associated with very large information systems An assessment of possible strategies for the development of these systems resulting in managed evolution as the preferred strategy Describing key system aspects for the success of managed evolution such as architecture management integration architecture and infrastructure Developing the necessary organizational cultural governance and controlling mechanisms for successful execution   Quality of Software Architectures and Software Quality Ralf H. Reussner,Johannes Mayer,Judith A. Stafford,Sven Overhage,Steffen Becker,Patrick J. Schroeder,2005-09-12 This book constitutes the joint refereed proceedings of two colocated events the First International Conference on the Quality of Software Architectures QoSA 2005 and the Second International Workshop on Software Quality SOQUA 2005 held in Erfurt Germany in September 2005 The 18 revised full papers presented were carefully reviewed and selected from 48 submissions For QoSA 2005 only 12 papers of the 31 submitted were accepted for presentation they are concerned with research and experiences that investigate the influence a specific software architecture has on software quality aspects The papers are organized in topical sections on software architecture evaluation formal approaches to model driven QoS handling modelling QoS in software architectures software architectures applied architectural design for QoS and model driven software reliability estimation The 6 papers accepted for SOQUA 2005 from 17 submissions mainly focus on quality assurance and on software testing They are organized in topical sections on test case selection model based testing unit testing and performance testing   *Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2017-12-01 Professionals in the interdisciplinary field of computer science focus on the design operation and maintenance of computational systems and software Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases Computer Systems and Software Engineering Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as utility computing computer security and information systems applications this multi volume book is ideally designed for academicians researchers students web designers software developers and practitioners interested in computer systems and software engineering   **Relating Software Requirements and Architectures** Paris Avgeriou,John Grundy,Jon G. Hall,Patricia Lago,Ivan Mistrík,2011-08-03 Why have a book about the relation between

requirements and software architecture Understanding the relation between requirements and architecture is important because the requirements be they explicit or implicit represent the function whereas the architecture determines the form While changes to a set of requirements may impact on the realization of the architecture choices made for an architectural solution may impact on requirements e g in terms of revising functional or non functional requirements that cannot actually be met Although research in both requirements engineering and software architecture is quite active it is in their combination that understanding is most needed and actively sought Presenting the current state of the art is the purpose of this book The editors have divided the contributions into four parts Part 1 Theoretical Underpinnings and Reviews addresses the issue of requirements change management in architectural design through traceability and reasoning Part 2 Tools and Techniques presents approaches tools and techniques for bridging the gap between software requirements and architecture Part 3 Industrial Case Studies then reports industrial experiences while part 4 on Emerging Issues details advanced topics such as synthesizing architecture from requirements or the role of middleware in architecting for non functional requirements The final chapter is a conclusions chapter identifying key contributions and outstanding areas for future research and improvement of practice The book is targeted at academic and industrial researchers in requirements engineering or software architecture Graduate students specializing in these areas as well as advanced professionals in software development will also benefit from the results and experiences presented in this volume   Application Development and Design: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2017-08-11 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life These applications can be utilized across different technological platforms Application Development and Design Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as software design mobile applications and web applications this multi volume book is ideally designed for researchers academics engineers professionals students and practitioners interested in emerging technology applications   *Future-Proof Software-Systems* Frank J. Furrer,2019-09-25 This book focuses on software architecture and the value of architecture in the development of long lived mission critical trustworthy software systems The author introduces and demonstrates the powerful strategy of Managed Evolution along with the engineering best practice known as Principle based Architecting The book examines in detail architecture principles for e g Business Value Changeability Resilience and Dependability The author argues that the software development community has a strong responsibility to produce and operate useful dependable and trustworthy software Software should at the same time provide business value and guarantee many quality of service properties including security safety performance and integrity As Dr Furrer states Producing dependable software is a balancing act between

investing in the implementation of business functionality and investing in the quality of service properties of the software systems The book presents extensive coverage of such concepts as Principle Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures tables examples and illustrative quotations Future Proof Software Systems provides a set of good engineering practices devised for integration into most software development processes dedicated to the creation of software systems that incorporate Managed Evolution *Aligning Business and IT with Metadata* Hans Wegener,2007-08-20 Financial services institutions like international banks and insurance companies frequently need to adapt to changes in their environments yet manage risk and ensure regulatory compliance The author Hans Wegener reveals how metadata can be used to achieve a successful and technological evolution This unique approach is divided into three parts to Explain how metadata can be used to increase an organization s ability to adopt changes Outline the peculiarities of financial corporations and how they affect value creation and solution design Present the practical side of effectively managing metadata and sustaining long term success Wegener firstly illustrates the peculiarities of both metadata management and the financial services industry He combines both puts them into context of use and explains where and how this makes life difficult as well as where and how value is created This enables the reader to understand the impact of metadata management on his her organization its typical side effects necessities and benefits The book then goes onto reveal how different crosscutting concerns managed in large financial corporations change risk and compliance management can revolutionize business by supporting them with metadata management This provides a blueprint to be used in strategic planning Finally the mechanics of three important practical areas are discussed in depth namely managing evolution quality and sustainability This provides helpful scripts for practitioners to be used in real life Enterprise Integration Patterns Gregor Hohpe,Bobby Woolf,2012-03-09 Enterprise Integration Patterns provides an invaluable catalog of sixty five patterns with real world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise The authors also include examples covering a variety of different integration technologies such as JMS MSMQ TIBCO ActiveEnterprise Microsoft BizTalk SOAP and XSL A case study describing a bond trading system illustrates the patterns in practice and the book offers a look at emerging standards as well as insights into what the future of enterprise integration might hold This book provides a consistent vocabulary and visual notation framework to describe large scale integration solutions across many technologies It also explores in detail the advantages and limitations of asynchronous messaging architectures The authors present practical advice on designing code that connects an application to a messaging system and provide extensive information to help you determine when to send a message how to route it to the proper destination and how to monitor the health of a messaging system If you want to know how to manage monitor and maintain a

messaging system once it is in use get this book **Building Serverless Python Web Services with Zappa** Abdulwahid Abdulhaque Barguzar,2018-07-30 Master serverless architectures in Python and their implementation with Zappa on three different frameworks Key Features Scalable serverless Python web services using Django Flask and Pyramid Learn Asynchronous task execution on AWS Lambda and scheduling using Zappa Implementing Zappa in a Docker container Book Description Serverless applications are becoming very popular these days not just because they save developers the trouble of managing the servers but also because they provide several other benefits such as cutting heavy costs and improving the overall performance of the application This book will help you build serverless applications in a quick and efficient way We begin with an introduction to AWS and the API gateway the environment for serverless development and Zappa We then look at building testing and deploying apps in AWS with three different frameworks Flask Django and Pyramid Setting up a custom domain along with SSL certificates and configuring them with Zappa is also covered A few advanced Zappa settings are also covered along with securing Zappa with AWS VPC By the end of the book you will have mastered using three frameworks to build robust and cost efficient serverless apps in Python What you will learn Build test and deploy a simple web service using AWS CLI Integrate Flask based Python applications via AWS CLI configuration Design Rest APIs integrated with Zappa for Flask and Django Create a project in the Pyramid framework and configure it with Zappa Generate SSL Certificates using Amazon Certificate Manager Configure custom domains with AWS Route 53 Create a Docker container similar to AWS Lambda Who this book is for Python Developers who are interested in learning how to develop fast and highly scalable serverless applications in Python will find this book useful *SAFe 5.0 Distilled* Richard Knaster,Dean Leffingwell,2020-06-05 SAFe 5 0 The World s Leading Framework for Business Agility Those who master large scale software delivery will define the economic landscape of the twenty first century SAFe 5 0 is a monumental release that I am convinced will be key in helping countless enterprise organizations succeed in their shift from project to product Dr Mik Kersten CEO of Tasktop and author of the book Project to Product Business agility is the ability to compete and thrive in the digital age by quickly responding to unprecedented market changes threats and emerging opportunities with innovative business solutions SAFe 5 0 Distilled Achieving Business Agility with Scaled Agile Framework explains how adopting SAFe helps enterprises use the power of Agile Lean and DevOps to outflank the competition and deliver complex technology based business solutions in the shortest possible time This book will help you Understand the business case for SAFe its benefits and the problems it solves Learn the technical organizational and leadership competencies needed for business agility Refocus on customer centricity with design thinking Better align strategy and execution with Lean Portfolio Management Learn the leadership skills needed to thrive in the digital age Increase the flow of value to customers with value stream networks Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details **Expert .NET Delivery Using NAnt and CruiseControl.NET** Josh Holmes,2006-11-03 At first glance building and

deploying applications seem simple enough But in fact difficult releases without any confidence or processes backing them are very common Integration and management of a new deployment can be laborious and fraught with risk So as team size and volume of projects grow management becomes more difficult and risk more pronounced This book is a guide to the implementation of good processes in a NET environment Author Marc Holmes focuses on actual implementation and details patterns and anti patterns to watch out for He also provides a practical and in depth look at NAnt and CruiseControl NET and solutions to common problem scenarios For additional insights visit the author s blog Marc My Words   User Stories Applied Mike Cohn,2004-03-01 Thoroughly reviewed and eagerly anticipated by the agile community User Stories Applied offers a requirements process that saves time eliminates rework and leads directly to better software The best way to build software that meets users needs is to begin with user stories simple clear brief descriptions of functionality that will be valuable to real users In User Stories Applied Mike Cohn provides you with a front to back blueprint for writing these user stories and weaving them into your development lifecycle You ll learn what makes a great user story and what makes a bad one You ll discover practical ways to gather user stories even when you can t speak with your users Then once you ve compiled your user stories Cohn shows how to organize them prioritize them and use them for planning management and testing User role modeling understanding what users have in common and where they differ Gathering stories user interviewing questionnaires observation and workshops Working with managers trainers salespeople and other proxies Writing user stories for acceptance testing Using stories to prioritize set schedules and estimate release costs Includes end of chapter practice questions and exercises User Stories Applied will be invaluable to every software developer tester analyst and manager working with any agile method XP Scrum or even your own home grown approach   Overcoming Challenges in Software Engineering Education: Delivering Non-Technical Knowledge and Skills Yu, Liguo,2014-03-31 Computer science graduates often find software engineering knowledge and skills are more in demand after they join the industry However given the lecture based curriculum present in academia it is not an easy undertaking to deliver industry standard knowledge and skills in a software engineering classroom as such lectures hardly engage or convince students Overcoming Challenges in Software Engineering Education Delivering Non Technical Knowledge and Skills combines recent advances and best practices to improve the curriculum of software engineering education This book is an essential reference source for researchers and educators seeking to bridge the gap between industry expectations and what academia can provide in software engineering education   **Refactoring HTML** Elliotte Rusty Harold,2012-03-16 Like any other software system Web sites gradually accumulate cruft over time They slow down Links break Security and compatibility problems mysteriously appear New features don t integrate seamlessly Things just don t work as well In an ideal world you d rebuild from scratch But you can t there s no time or money for that Fortunately there s a solution You can refactor your Web code using easy proven techniques tools and recipes adapted from the world of software development In Refactoring HTML

Elliotte Rusty Harold explains how to use refactoring to improve virtually any Web site or application Writing for programmers and non programmers alike Harold shows how to refactor for better reliability performance usability security accessibility compatibility and even search engine placement Step by step he shows how to migrate obsolete code to today s stable Web standards including XHTML CSS and REST and eliminate chronic problems like presentation based markup stateful applications and tag soup The book s extensive catalog of detailed refactorings and practical recipes for success are organized to help you find specific solutions fast and get maximum benefit for minimum effort Using this book you can quickly improve site performance now and make your site far easier to enhance maintain and scale for years to come Topics covered include Recognizing the smells of Web code that should be refactored Transforming old HTML into well formed valid XHTML one step at a time Modernizing existing layouts with CSS Updating old Web applications replacing POST with GET replacing old contact forms and refactoring JavaScript Systematically refactoring content and links Restructuring sites without changing the URLs your users rely upon This book will be an indispensable resource for Web designers developers project managers and anyone who maintains or updates existing sites It will be especially helpful to Web professionals who learned HTML years ago and want to refresh their knowledge with today s standards compliant best practices This book will be an indispensable resource for Web designers developers project managers and anyone who maintains or updates existing sites It will be especially helpful to Web professionals who learned HTML years ago and want to refresh their knowledge with today s standards compliant best practices   Continuous Integration Duvall,2007   **Software Without Borders** Steve Mezak,2006 When everything goes right you end up with high quality software in half the time for a fraction of the cost But over 50% of offshore outsourcing projects do not achieve their cost saving goals or timelines or just fail completely The mistakes and missteps are costly and painful but NOW you don t have to go there This book shows you step by step how to make software development outsourcing work from concept to completion You ll discover how to Choose the right vendor quickly and confidently Stay in control of your outsourced software development project Achieve on time on scope and on budget results Fiercely protect your intellectual property Decide when to create a subsidiary for even greater savings

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