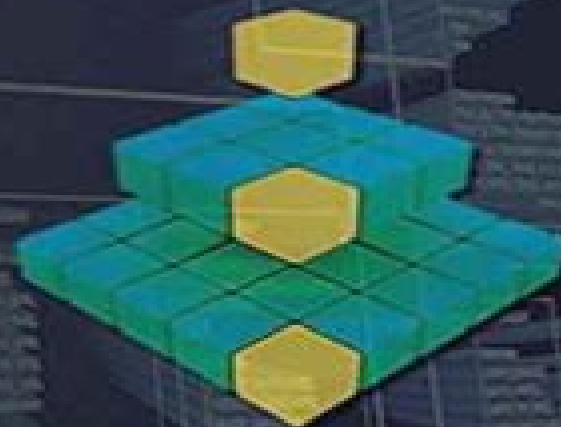


ARCHITECTING SOFTWARE INTENSIVE SYSTEMS

A Practitioner's Guide



Anthony J. Lattanze



Architecting Software Intensive Systems A Practitioners Guide

Vivek Kale



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Architecting Software Intensive Systems Anthony J. Lattanze, 2008-11-18 Architectural design is a crucial first step in developing complex software intensive systems Early design decisions establish the structures necessary for achieving broad systemic properties However today s organizations lack synergy between software their development processes and technological methodologies Providing a thorough treatment of Just Enough Software Architecture George Fairbanks, 2010-08-30 This is a practical guide for software developers and different than other software architecture books Here s why It teaches risk driven architecting There is no need for meticulous designs when risks are small nor any excuse for sloppy designs when risks threaten your success This book describes a way to do just enough architecture It avoids the one size fits all process tar pit with advice on how to tune your design effort based on the risks you face It democratizes architecture This book seeks to make architecture relevant to all software developers Developers need to understand how to use constraints as guiderails that ensure desired outcomes and how seemingly small changes can affect a system s properties It cultivates declarative knowledge There is a difference between being able to hit a ball and knowing why you are able to hit it what psychologists refer to as procedural knowledge versus declarative knowledge This book will make you more aware of what you have been doing and provide names for the concepts It emphasizes the engineering This book focuses on the technical parts of software development and what developers do to ensure the system works not job titles or processes It shows you how to build models and analyze architectures so that you can make principled design tradeoffs It describes the techniques software designers use to reason about medium to large sized problems and points out where you can learn specialized techniques in more detail It provides practical advice Software design decisions influence the architecture and vice versa The approach in this book embraces drill down pop up behavior by describing models that have various levels of abstraction from architecture to data structure design

Digital Transformation of Enterprise Architecture Vivek Kale, 2019-07-08 In this book Vivek Kale makes an important contribution to the theory and practice of enterprise architecture this book captures the breadth and depth of information that a modern enterprise architecture must address to effectively support an agile enterprise This book should have a place in every practicing architect s library John D McDowall Author of Complex Enterprise Architecture Digital Transformation of Enterprise Architecture is the first book to propose Enterprise Architecture EA as the most important element after Business Models for digital transformation of enterprises This book makes digital transformation more tangible by showing the rationale and typical technologies associated with it and these technologies in turn reveal the essence of digital transformation This book would be useful for analysts designers and developers of future ready agile application systems This book proposes that it is the perennial quest for interoperability portability scalability availability etc that has directed and driven the evolution of the IT IS industry in the past 50 years It is this very quest that has led to the emergence of technologies like service oriented cloud and big data computing In addition

to the conventional attributes of EA like interoperability scalability and availability this book identifies additional attributes of mobility ubiquity security analyticity and usability This pragmatic book Identifies three parts effort for any digital transformation Business Models Enterprise Architectures and Enterprise Processes Describes eight attributes of EA interoperability scalability availability mobility ubiquity security analyticity and usability Explains the corresponding technologies of service oriented cloud big data context aware Internet of Things IoT blockchain soft and interactive computing Briefs on auxiliary technologies like integration virtualization replication spatio temporal databases embedded systems cryptography data mining and interactive interfaces that are essential for digital transformation of enterprise architecture Introduces interactive interfaces like voice gaze gesture and 3D interfaces Provides an overview of blockchain computing soft computing and customer interaction systems Digital Transformation of Enterprise Architecture proposes that to withstand the disruptive digital storms of the future enterprises must bring about digital transformation i e a transformation that affects an exponential change amplification or attenuation in any aspect of the constituent attributes of EA It proposes that each of these technologies service oriented cloud big data context aware IoT blockchain soft and interactive computing bring about digital transformation of the corresponding EA attribute viz interoperability scalability availability mobility ubiquity security analyticity and usability

Software Architecture in Practice Len Bass,Paul Clements,Rick Kazman,2012-09-25 The award winning and highly influential Software Architecture in Practice Third Edition has been substantially revised to reflect the latest developments in the field In a real world setting the book once again introduces the concepts and best practices of software architecture how a software system is structured and how that system s elements are meant to interact Distinct from the details of implementation algorithm and data representation an architecture holds the key to achieving system quality is a reusable asset that can be applied to subsequent systems and is crucial to a software organization s business strategy The authors have structured this edition around the concept of architecture influence cycles Each cycle shows how architecture influences and is influenced by a particular context in which architecture plays a critical role Contexts include technical environment the life cycle of a project an organization s business profile and the architect s professional practices The authors also have greatly expanded their treatment of quality attributes which remain central to their architecture philosophy with an entire chapter devoted to each attribute and broadened their treatment of architectural patterns If you design develop or manage large software systems or plan to do so you will find this book to be a valuable resource for getting up to speed on the state of the art Totally new material covers Contexts of software architecture technical project business and professional Architecture competence what this means both for individuals and organizations The origins of business goals and how this affects architecture Architecturally significant requirements and how to determine them Architecture in the life cycle including generate and test as a design philosophy architecture conformance during implementation architecture and testing and architecture and agile development Architecture and

current technologies such as the cloud social networks and end user devices Computing Handbook Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals *Computing Handbook* Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management **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 *Handbook of Research on Engineering Education in a Global Context* Smirnova, Elena V.,Clark, Robin P.,2018-08-31 Engineering education methods and standards are important features of engineering programs that should be carefully designed both to provide students and stakeholders with valuable active integrated learning experiences and to provide a vehicle for assessing program outcomes With the driving force of the globalization of the engineering profession standards should be developed for mutual recognition of engineering education across the world but it is proving difficult to achieve The Handbook of Research on Engineering Education in a Global Context provides innovative insights into the importance of quality training and preparation for engineering students It explores the common and current problems encountered in areas such as quality and standards management information systems innovation and enhanced learning technologies in education as well as the challenges of employability entrepreneurship and diversity This publication is vital reference source for science and engineering educators engineering professionals and educational administrators interested in topics centered on the education of students in the field of engineering **Effective Model-Based Systems Engineering** John M. Borky,Thomas H. Bradley,2018-09-08 This textbook presents a proven mature Model Based Systems Engineering MBSE methodology that has delivered success in a wide range of system and enterprise programs The authors introduce MBSE as the state of the practice in the vital Systems Engineering discipline that manages complexity and integrates technologies and design approaches to achieve effective affordable and balanced system solutions to the needs of a customer organization and its personnel The book begins with a summary of the background and nature of MBSE It summarizes the theory behind Object Oriented Design applied to complex system architectures It then walks through the phases of the MBSE methodology using system examples to illustrate key points Subsequent chapters broaden the application of MBSE in Service Oriented Architectures SOA real time systems cybersecurity networked enterprises system simulations and prototyping The vital subject of system and architecture governance completes the discussion The book features exercises at the end of each chapter intended to help readers students focus on key points as well as extensive appendices that furnish additional detail in particular areas The self contained text is ideal for students in a range of courses in systems architecture and MBSE as well as for practitioners seeking a highly practical presentation of MBSE principles and techniques 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

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