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Software Architecture Primer

John Reekie

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A Software Architecture Primer A Software Architecture Primer

Luke Hohmann



A Software Architecture Primer A Software Architecture Primer:

A Software Architecture Primer John Reekie,Rohan McAdam,Rohan James McAdam,2006 The authors present a fresh pragmatic approach to the study of software architecture This edition contains a series of chapters that introduce and develop an understanding of software architecture by means of careful explanation and elaboration of a range of key concepts Computer Books Software Architecture: A Case Based Approach Vasudeva Varma,Varma Vasudeva,2009-09 The book discusses the discipline of Software Architecture using real world case studies and poses pertinent questions that arouse objective thinking With the help of case studies and in depth analyses it delves into the core issues and challenges of software architecture *Software Architecture* Paris Avgeriou,Uwe Zdun,2014-08-12 This book constitutes the proceedings of the 8th European Conference on Software Architecture ECSA 2014 held in Vienna Austria in August 2014 The 16 full papers and 18 short papers presented in this volume were carefully reviewed and selected from 91 submissions They are organized in topical sections named architecture decisions and knowledge architecture patterns and anti patterns reference architectures and metamodels architecture description languages enterprise architecture SOA and cloud computing components and connectors quality attributes and architecture analysis and verification *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** Muhammad Ali Babar,Ian Gorton,2010-08-27 Welcome to the European Conference on Software Architecture ECSA which is the premier European software engineering conference ECSA provides researchers and practitioners with a platform to present and discuss the most recent innovative and significant findings and experiences in the field of software architecture research and practice The fourth edition of ECSA was built upon a history of a successful series of European workshops on software architecture held from 2004 through 2006 and a series of European software

architecture conferences from 2007 through 2009 The last ECSA was merged with the 8th Working IEEE IFIP Conference on Software Architecture WICSA Apart from the traditional technical program consisting of keynote talks a main search track and a poster session the scope of the ECSA 2010 was broadened to incorporate other tracks such as an industry track doctoral symposium track and a tool demonstration track In addition we also offered several workshops and tutorials on diverse topics related to software architecture We received more than 100 submissions in the three main categories full research and experience papers emerging research papers and research challenges papers The conference attracted papers co authored by researchers practitioners and academics from 30 countries Algeria Australia Austria Belgium Brazil Canada Chile China Colombia Czech Republic Denmark Finland France Germany Hong Kong India Ireland Israel Italy The Netherlands Poland Portugal Romania Spain Sweden Switzerland Tunisia United Kingdom United States

Software Architecture Ivica Crnkovic, Volker Gruhn, Matthias Book, 2011-09-15 This book constitutes the refereed proceedings of the 5th European Conference on Software Architecture ECSA 2011 held in Essen Germany in September 2011 The 13 revised full papers presented together with 24 emerging research papers and 7 research challenge poster papers were carefully reviewed and selected from over 100 submissions The papers are organized in topical sections on requirements and software architectures software architecture components and compositions quality attributes and software architectures software product line architectures architectural models patterns and styles short papers process and management of architectural decisions software architecture run time aspects ADLs and metamodels and services and software architectures

Architecting with RM-ODP Janis Putman, 2001 Preface To understand anything you should not try to understand everything Aristotle The whole is greater than the sum of the parts the part is greater than a fraction of the whole Aristotle Architecting is a challenging process of abstraction composition modularity and simplification to create an architecture specification An architecture specification captures the essence and definition of the system understanding parts and the relationships among the parts An architecture specification defines how a system solves a business problem within the scope of the business Putman Leave the beaten track occasionally and dive into the woods You will be certain to find something that you have never seen before Alexander Graham Bell There are large gaps in the theory and practice of software architecture and engineering Much is published about the representation of a software architecture such as the Unified Modeling Language UML but little is available about the specification for a software architecture Software engineering methods of domain engineering process modeling languages and well formed patterns of reasoning aid in the specification of an architecture The Reference Model of Open Distributed Processing RM ODP defines the standard reference model for distributed software systems architectures based on object oriented techniques accepted at the international level RM ODP is a standard adopted by the International Standards Organization ISO and the International Telecommunications Union ITU RM ODP is embedded and used actively in mission critical systems industries such as in telecommunications in health care

on Wall Street financial services industry in various Government systems Logistics in European Government Agencies such as UK Aviation control systems as a foundation for the Object Management Group OMG Object Management Architecture OMA for defining enterprise architectures and for defining software architectures The software systems architecture work that is emerging and is focused either at the component level or at the systems level provides a key resource for architecting This is enhanced by the architecting techniques of RM ODP This book assembles these great ideas explains what they mean and shows how to use them for practical benefit along with real world case study examples By using the RM ODP specification constructs associated languages architecture patterns of reasoning semantic behavior specification and conformance testing abilities readers will be able to architect their specific systems based on the RM ODP specification foundations and specify architectures that work One of the purposes of this book is to provide the approach to using the RM ODP foundations in architecting and specifying a distributed processing system that addresses such key properties as interoperability dependability portability integration composability scalability transparency behavior specification quality of service policy management federation and conformance validation Another purpose of this book is to explain the underlying foundations for creating an architectural specification These foundations come not only from RM ODP but also from the current work in software systems architecture Another purpose is to guide the reader to understand the importance and benefits of creating an architecture specification for an enterprise Yet another purpose is to provide the reader with the principles to construct software systems architecture at both introductory and in depth levels By applying the proven techniques of RM ODP for what makes a good architecture readers will be able to build their own tailored architectures and clearly represent them in UML or some other tool with an understanding of the underlying principles Practitioners of RM ODP have found that the standard is extremely beneficial in guiding architecture definition and providing standard terminology principles for distributed object applications and infrastructures from an enterprise perspective Outstanding Features This book is intended to provide valuable insight into successful architecture specification by describing an unprecedented foundation to accomplish this task describing the use of the foundation explaining the relationships of the concepts of architecting explaining the relationships of the concepts of distributed processing and identifying the right methods and possible tools for architecting All material for the book has been derived from actual experiences A medical case study is used throughout the book in ever increasing detailed specification This medical case study is based on actual experience of the author In addition many metamodels are provided to represent the concepts of RM ODP All of these metamodels are contributions from the author This is information that readers can use and apply in their architecting today RM ODP provides a reference framework grammars methods of abstraction and composition and separation of concerns to achieve an architecture specification of the system RM ODP provides a framework for this separation using viewpoints as well as separating out certain decisions e g product decisions until later Further the reference model provides a set of

definitions which always aids in communicating with others There is little in the literature about RM ODP or architecture specification and certainly not a book dedicated as a tutorial of these subjects Now there is In summary this book offers the following

- How to manage the architecting process in the lifecycle of a system
- How to solve many architecture reuse and cost effectiveness problems
- How to create a business specification
- How to understand and use the concepts of distributed processing in an architecture
- How to architect effectively
- How to specify an architecture
- How to understand and specify semantic behavior and nonfunctional properties of a system the ilities
- How to provide the right level of detail in an architecture specification
- How to ensure the implementation conforms to the architecture specification
- How to use RM ODP effectively
- How to use popular tools such as UML to describe an architecture

A definitive tutorial of RM ODP

Audience This book is designed for Those in the Distributed Software Systems Architecture community who are interested in a methodology for using proven architecture principles Professional software architects who are looking for new ideas about architecting a system Within this book the reader will find discussions of the techniques for architecting for creating an architecture specification and RM ODP s relationship to other architecture frameworks Program managers interested in how to create a cost effective architecture within their enterprise that focuses on the needs of the enterprise and solves an enterprise problem They will learn how do to do this through an overview of RM ODP the program benefits for using it and where RM ODP fits in the system lifecycle process Systems engineers interested in the lifecycle approach to enterprise architecture specification Experienced engineers interested in expanding their understanding of how to create a valid architecture specification and gain an understanding of the distributed processing system concepts why certain constructions are valid and why some are not what is to be specified and how and some new ideas and approaches to architecting a system The reader will be able to develop a collection of useful distributed processing architecting techniques that expand upon the current software systems architecture capabilities Developers interested in the practice of architecture specification and aligning current technology to achieve a workable system while allowing evolutionary changes in technology solutions Researchers interested in solutions and aids for furthering the research work in architecture specification Individuals in the software community who are generally interested in the application of an architecture method Readers will find examples of the applications of RM ODP and specific analysis techniques The expected audience will be novice and mid level program managers software engineers those in the IEEE DoD research communities consortia and general architecture readers This book can be used as a textbook and reference book for studies in the methods of architecture for graduate studies in software architecture specification for training information about software architecture and RM ODP for further education of consultants integration specialists and acquisition managers who need to approve and fund such work and for researchers who are expanding the discipline of software architecture The inclusion of RM ODP will bring to the U S principally the outstanding work that was accomplished by the international standards working group In brief the RM ODP principles form a

solution set and foundation for all software architecting endeavors It is the formalized framework for this topic and at the International Standard IS level of acceptance It forms a solution set and foundation for reuse of design patterns to provide cost effective software architecture It is the process for this topic but has never before been described in a book Many program managers who typically set the stage as to the methodology of choice for a project software engineers and researchers in academia and in DARPA are unaware of the power and solutions provided by the standard or the process of identifying and instantiating reuse of all the expensive assets of architecture Many do not realize that there is a language for specifying software intensive distributed processing and that language is precisely and rigorously defined in RM ODP for reuse Those debating definitions for architecture system interface and others can reuse the internationally agreed upon definitions Finally with the inclusion of RM ODP and its relationship to other architecture frameworks it is expected that many software engineers will benefit from reading this work since it will be the first time these subjects are discussed in print

How to Use This Book This book is divided into four parts aimed at increasing levels of detail Part One provides an overview of the field of software architecture an RM ODP primer for managers and an RM ODP primer for architects Part Two provides an in depth study of RM ODP and how to use it Areas of importance and utility from RM ODP are highlighted Ambiguity in RM ODP is highlighted Warnings in the use of RM ODP are highlighted Part Three provides a discussion of the principal architecture patterns of use arranged by topic Several of these patterns of use come from emerging work under the initiative of RM ODP as well as lessons learned from the practice of RM ODP These patterns of reasoning used by the architect are founded on the principals of RM ODP as discussed in Part Two of the book Part Four concludes with relating RM ODP to other architecture methods It also provides emerging technologies to further the patterns of reasoning for use in architecting and a set of architecting heuristics The information contained in this book is organized in a manner that provides clear insight into the world of distributed software intensive processing architecture for designers and developers who are familiar with information systems technology but want to know more about how to build a good architecture Starting with a tutorial about software architecture and then a tutorial about the standard for software architecture the reader need not be an expert in the area of international standards RM ODP software architecture or specific technologies The book goes on to address the needs of the variety of readers for which it is intended Each chapter in the book provides an overview of the subject of the chapter as well as a summary For those who wish a broad brush exposure to RM ODP the primers of Part One provide this as well as the overviews and summaries in each chapter of interest As each chapter progresses in Parts Two and Three more and more in depth detail is provided The readings of these chapters are aimed at those who wish to know the technical details of a topic There are two case studies used throughout the book at various levels of detail The primary case study is a Hospital enterprise based upon the author s experience with the medical profession A secondary case study is an airline reservation system also based upon the author s experience These case studies are used to describe the concepts of

RM ODP and to show how they might be used **Software Architecture in Practice** Len Bass,Paul Clements,Rick Kazman,2021-06-30 The Definitive Practical Proven Guide to Architecting Modern Software Fully Updated with New Content on Mobility the Cloud Energy Management DevOps Quantum Computing and More Updated with eleven new chapters Software Architecture in Practice Fourth Edition thoroughly explains what software architecture is why it s important and how to design instantiate analyze evolve and manage it in disciplined and effective ways Three renowned software architects cover the entire lifecycle presenting practical guidance expert methods and tested models for use in any project no matter how complex You ll learn how to use architecture to address accelerating growth in requirements system size and abstraction and to manage emergent quality attributes as systems are dynamically combined in new ways With insights for utilizing architecture to optimize key quality attributes including performance modifiability security availability interoperability testability usability deployability and more this guide explains how to manage and refine existing architectures transform them to solve new problems and build reusable architectures that become strategic business assets Discover how architecture influences and is influenced by technical environments project lifecycles business profiles and your own practices Leverage proven patterns interfaces and practices for optimizing quality through architecture Architect for mobility the cloud machine learning and quantum computing Design for increasingly crucial attributes such as energy efficiency and safety Scale systems by discovering architecturally significant influences using DevOps and deployment pipelines and managing architecture debt Understand architecture s role in the organization so you can deliver more value Register your book for convenient access to downloads updates and or corrections as they become available See inside book for details [Beginning IOS Programming For Dummies](#) Rajiv Ramnath,Cheyney Loffing,2014-04-14 The ultimate beginner s guide to programming in the iOS environment The Apple App Store is a gold mine for developers but with more apps for the iPhone iPad and iPod touch being added every day it s essential to have a solid programming foundation to create the best apps possible If you re eager to learn the ins and outs of iOS programming this is your book It teaches object oriented programming within the iOS framework from the ground up preparing you to create the next super iPhone or iPad app Get a handle on the iOS framework object oriented best practices and the Xcode programming environment then discover how to create simple interfaces use libraries create and extend objects and more Whether you re just starting out in programming or only new to iOS For Dummies is the perfect beginning Focuses on teaching object oriented programming within the iOS framework and includes best practices for building apps that are easy to debug evolve and maintain Uses simple examples to demonstrate object oriented programming output in the iPhone environment while teaching real world programming concepts and applications Provides a thorough understanding of the framework and object oriented principles to help beginning programmers make optimum use of iOS Covers working with the Xcode environment and storyboards creating simple interfaces using libraries functions structures arrays and pointers and creating and extending objects Beginning iOS

Programming For Dummies is your straightforward guide to getting started with iOS programming

Innovative Information Systems Modelling Techniques Christos Kalloniatis, 2012-05-30 The rapid development of new Information Infrastructure combined with the increased user needs in specific areas of Information Technology mostly related to Web applications has created the need for designing new modeling techniques more innovative and targeted on specific areas of Information Systems in order to successfully model the rapidly changed environment along with the newly introduced concepts and user requirements Therefore this book aims to introduce readers to a number of innovative Information modeling techniques It is titled Innovative Information Systems Modelling Techniques and includes 9 chapters The focus is on the exploration and coverage of the innovations of recently presented modeling techniques and their applicability on the Information Systems modeling

Aligning Enterprise, System, and Software Architectures Mistrik, Ivan, Tang, Antony, Bahsoon, Rami, Stafford, Judith A., 2012-10-31 This book covers both theoretical approaches and practical solutions in the processes for aligning enterprise systems and software architectures Provided by publisher

Software Architecture Zheng Qin, Jian-Kuan Xing, Xiang Zheng, 2009-02-07 Part of the new series Advanced Topics in Science and Technology in China this book aims to introduce the theoretical foundations various sub fields current research and practical methods of software architecture Readers can acquire basic knowledge of software architecture including why software architecture is necessary how we can describe a system s architecture with formal language what architecture styles are popular in practice and how we can apply software architecture to the development of systems Case studies data illustrations and other materials released within the past 5 years will be used to show the latest developments in software architecture Dr Qin Zheng is doctoral mentor of the computer science and technology departments at Tsinghua and Xi an Jiaotong Universities He has been Associate Dean of the School of Software Tsinghua University and Chair of the Institute of E commerce Xi an Jiaotong University He has been a visiting scholar at several universities in the United States

PCR Primer Design Anton Yuryev, 2008-02-03 In the past decade molecular biology has been transformed from the art of cloning a single gene to a statistical science measuring and calculating properties of entire genomes New high throughput methods have been developed for genome sequencing and studying the cell at different systematic levels such as transcriptome proteome metabolome and other omes At the heart of most high throughput methods is the technique of polymerase chain reaction PCR PCR Primer Design focuses on primer design which is critical to both the efficiency and the accuracy of the PCR With intricate descriptions of basic approaches as well as specialized methods this volume is an exceptional reference for all those involved in studying the genome In PCR Primer Design authors describe basic approaches for PCR primer design in addition to specialized methods These state of the art methods can be used for both genome scale experiments and for small scale individual PCR amplifications This volume will be useful for organizations performing whole genome studies companies designing instruments that utilize PCR and individual scientists geneticists molecular biologists molecular geneticists and

more who routinely use PCR in their research Applied Architecture Patterns on the Microsoft Platform Second Edition Andre Dovgal, Gregor Noriskin, Dmitri Olechko, 2014-07-25 Presented in a scenario driven tutorial way we lead you through fictitious example problems and present you with the best solutions This book is intended for architects developers and managers who need to improve their knowledge of the Microsoft application platform This book will appeal to anyone especially consultants who want to get up to speed on selecting the most appropriate platform for a particular problem A good understanding of the general Windows platform and development technologies would be helpful Software Engineering Best Practices Capers Jones, 2009-11-05 Proven techniques for software engineering success This in depth volume examines software engineering topics that are not covered elsewhere the question of why software engineering has developed more than 2 500 programming languages problems with traditional definitions of software quality and problems with common metrics lines of code and cost per defect that violate standard economic assumptions The book notes that a majority of new projects are actually replacements for legacy applications illustrating that data mining for lost requirements should be a standard practice Difficult social engineering issues are also covered such as how to minimize harm from layoffs and downsizing Software Engineering Best Practices explains how to effectively plan size schedule and manage software projects of all types using solid engineering procedures It details proven methods from initial requirements through 20 years of maintenance Portions of the book have been extensively reviewed by key engineers from top companies including IBM Microsoft Unisys and Sony Manage Agile hierarchical matrix and virtual software development teams Optimize software quality using JAD OFD TSP static analysis inspections and other methods with proven success records Use high speed functional metrics to assess productivity and quality levels Plan optimal organization from small teams through more than 1 000 personnel Software Architecture Metrics Christian Ciceri, Dave Farley, Neal Ford, Andrew Harmel-Law, Michael Keeling, Carola Lilienthal, João Rosa, Alexander von Zitzewitz, Rene Weiss, Eoin Woods, 2022-05-18 Software architecture metrics are key to the maintainability and architectural quality of a software project and they can warn you about dangerous accumulations of architectural and technical debt early in the process In this practical book leading hands on software architects share case studies to introduce metrics that every software architect should know This isn't a book about theory It's more about practice and implementation about what has already been tried and worked Detecting software architectural issues early is crucial for the success of your software it helps mitigate the risk of poor performance and lowers the cost of repairing those issues Written by practitioners for software architects and software developers eager to explore successful case studies this guide will help you learn more about decision and measurement effectiveness Through contributions from 10 prominent practitioners this book shares key software architecture metrics to help you set the right KPIs and measure the results You'll learn how to Measure how well your software architecture is meeting your goals Choose the right metrics to track and skip the ones you don't need Improve observability testability and deployability Prioritize software architecture

projects Build insightful and relevant dashboards

Software Architecture Flavio Oquendo, Brian Warboys, Ron Morrison, 2004-05-11 This book constitutes the refereed proceedings of the First European Workshop on Software Architecture EWSA 2004 held in St Andrews Scotland UK in May 2004 in conjunction with ICSE 2004 The 9 revised full research papers 4 revised full experience papers and 6 revised position papers presented together with 5 invited presentations on ongoing European projects on software architectures were carefully reviewed and selected from 48 submissions All current aspects of software architectures are addressed ranging from foundational and methodological issues to application issues of practical relevance

Multidisciplinary Systems Engineering James A. Crowder, John N. Carbone, Russell Demijohn, 2015-12-23 This book presents Systems Engineering from a modern multidisciplinary engineering approach providing the understanding that all aspects of systems design systems software test security maintenance and the full life cycle must be factored in to any large scale system design up front not factored in later It lays out a step by step approach to systems of systems architectural design describing in detail the documentation flow throughout the systems engineering design process It provides a straightforward look and the entire systems engineering process providing realistic case studies examples and design problems that will enable students to gain a firm grasp on the fundamentals of modern systems engineering Included is a comprehensive design problem that weaves throughout the entire text book concluding with a complete top level systems architecture for a real world design problem

12 More Essential Skills for Software Architects Dave Hendricksen, 2014-08-22 Master The Crucial Technical Skills Every Software Architect Needs To succeed as a software architect you must master both technical skills and soft skills Dave Hendricksen illuminated the soft skills in his highly regarded 12 Essential Skills for Software Architects Now in 12 More Essential Skills for Software Architects he turns to the technical side Drawing on his decades of experience Hendricksen organizes technical skills into three areas PROJECT SKILLS driving projects from ideation through delivery TECHNOLOGY SKILLS building buying and or leveraging the right technologies VISIONARY SKILLS realizing an architectural vision that improves long term competitiveness He helps you develop and sharpen these key technical skills from conceptualizing solutions to developing platforms and governance and from selecting technology innovations to infusing architectures with an entrepreneurial spirit This guide reveals the technical skills you need and provides a coherent framework and practical methodology for mastering them Taken together Hendricksen s two books offer the most complete practical pathway to excellence in software architecture They ll guide you through every step of your architecture career from getting the right position to thriving once you have it Essential Architect Skills Visionary Skills Entrepreneurial Execution Technology Innovation Strategic Roadmapping Technology Skills Governance Platform Development Know how Architectural Perspective Project Skills Estimation Partnership Discovery Management Conceptualization Dave Hendricksen is a big data architect for Thomson Reuters where he works closely with the firm s new product development teams to create innovative legal products for large scale online platforms such as

Westlaw com Hendricksen presented Designing and Building Large Scale Systems in an Agile World at Carnegie Mellon University s influential Software Engineering Institute **Open Source Technology: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2014-11-30 The pervasiveness of and universal access to modern Information and Communication Technologies has enabled a popular new paradigm in the dissemination of information art and ideas Now instead of relying on a finite number of content providers to control the flow of information users can generate and disseminate their own content for a wider audience Open Source Technology Concepts Methodologies Tools and Applications investigates examples and methodologies in user generated and freely accessible content available through electronic and online media With applications in education government entertainment and more the technologies explored in these volumes will provide a comprehensive reference for web designers software developers and practitioners in a wide variety of fields and disciplines

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A Software Architecture Primer A Software Architecture Primer Introduction

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