

Sample Web Application Architecture Diagram

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Rational Application Developer for WebSphere Software V8 Programming Guide - Martin Keen 2011-04-19

IBM® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing Java™ Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6) applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5 Programming Guide, SG24-7672. *Web Application Architecture* - Leon Shklar 2009-04-27

In-depth examination of concepts and principles of Web application development Completely revised and updated, this popular book returns with coverage on a range of new technologies. Authored by a highly respected duo, this edition provides an in-depth examination of the core concepts and general principles of Web application development. Packed with examples featuring specific technologies, this book is divided into three sections: HTTP protocol as a foundation for Web applications, markup languages (HTML, XML, and CSS), and survey of emerging technologies. After a detailed introduction to the history of Web applications, coverage segues to core Internet protocols, Web browsers, Web application development, trends and directions, and more. Includes new coverage on technologies such as application primers, Ruby on Rails, SOAP, XPath, P3P, and more Explores the fundamentals of HTTP and its evolution Looks at HTML and its roots as well as XML languages and applications Reviews the basic operation of Web Servers, their functionality, configuration, and security Discusses how to process flow in Web browsers and looks at active browser pages Addresses the trends and various directions that the future of Web application frameworks may be headed This book is essential reading for anyone who needs to design or debug complex systems, and it makes it easier to learn the new application programming interfaces that arise in a rapidly changing Internet environment.

Chef: Powerful Infrastructure Automation - John Ewart 2017-05-16

Learn Chef Provisioning like a boss and discover how to deploy software and manage hosts, along with engaging recipes to automate your cloud and server infrastructure with Chef. About This Book Leverage the power of Chef to transform your infrastructure into code to deploy new features in minutes Get step-by-step instructions to configure, deploy, and scale your applications Master specific Chef techniques to run an entire fleet of machines without breaking a sweat. Who This Book Is For If you are a system administrator, Linux administrator, a cloud developer, or someone who just wants to learn and apply Chef automation to your

existing or new infrastructure, then this learning path will show you all you need to know. In order to get the most out of this learning path, some experience of programming or scripting languages would be useful. What You Will Learn Install Chef server on your own hosts Integrate Chef with cloud services Debug your cookbooks and Chef runs using the numerous inspection and logging facilities of Chef Extend Chef to meet your advanced needs by creating custom plugins for Knife and Ohai Create a perfect model system Use the best test-driven development methodologies In Detail Chef is a configuration management tool that turns IT infrastructure into code. Chef provides tools to manage systems at scale. This learning path takes you on a comprehensive tour of Chef's functionality, ranging from its core features to advanced development. You will be brought up to speed with what's new in Chef and how to set up your own Chef infrastructure for individuals, or small or large teams. You will learn to use the basic Chef command-line tools. We will also take you through the core concepts of managing users, applications, and your entire cloud infrastructure. You will learn the techniques of the pros by walking you through a host of step-by-step guides to solve real-world infrastructure automation challenges. You will learn to automate and document every aspect of your network, from the hardware to software, middleware, and all your containers. You will become familiar with the Chef's Provisioning tool. By the end of this course, you will be confident in how to manage your infrastructure, scale using the cloud, and extend the built-in functionality of Chef itself. The books used in this Learning Path are: 1) Chef Essentials 2) Chef Infrastructure Automation Cookbook - Second Edition 3) Mastering Chef Provisioning Style and approach This fast-paced guide covers the many facets of Chef and will teach administrators to use Chef as a birds-eye lens for their entire system. This book takes you through a host of step-by-step guides to solve real-world infrastructure automation challenges and offers elegant, time-saving solutions for a perfectly described and automated network.

Agile Java Development with Spring, Hibernate and Eclipse - Anil Hemrajani 2006-05-09

Agile Java™ Development With Spring, Hibernate and Eclipse is a book about robust technologies and effective methods which help bring simplicity back into the world of enterprise Java development. The three key technologies covered in this book, the Spring Framework, Hibernate and Eclipse, help reduce the complexity of enterprise Java development significantly. Furthermore, these technologies enable plain old Java objects (POJOs) to be deployed in light-weight containers versus heavy-handed remote objects that require heavy EJB containers. This book also extensively covers technologies such as Ant, JUnit, JSP tag libraries and touches upon other areas such as such logging, GUI based debugging, monitoring using JMX, job scheduling, emailing, and more. Also, Extreme Programming (XP), Agile Model Driven Development (AMDD) and refactoring are methods that can expedite the software development projects by reducing the amount of up front requirements and design; hence these methods are embedded throughout the book but with just enough details and examples to not sidetrack the focus of this book. In addition, this book contains well separated, subjective material (opinion sidebars), comic illustrations, tips and tricks, all of which provide real-world and practical

perspectives on relevant topics. Last but not least, this book demonstrates the complete lifecycle by building and following a sample application, chapter-by-chapter, starting from conceptualization to production using the technology and processes covered in this book. In summary, by using the technologies and methods covered in this book, the reader will be able to effectively develop enterprise-class Java applications, in an agile manner!

Rational Application Developer V7 Programming Guide - Ueli Wahli 2008-03-27

IBM® Rational® Application Developer for WebSphere® Software V7.0 (for short, Rational Application Developer) is the full function Eclipse 3.2 based development platform for developing Java™ 2 Platform Standard Edition (J2SE™) and Java 2 Platform Enterprise Edition (J2EE™) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments (Application Developer is here) - Change and release management - Process and portfolio management - Quality management This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V7.0. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V6 Programming Guide, SG24-6449. This book consists of six parts: - Introduction to Rational Application Developer - Develop applications - Test and debug applications - Deploy and profile applications - Team development - Appendixes

Mastering Apache Velocity - Joseph D. Gradecki 2003-10-07

A comprehensive tutorial on how to use the power of Velocity 1.3 to build Web sites and generate content. Designed to work hand-in-hand with Apache Turbine, Struts, and servlets, Velocity is a powerful template language that greatly enhances the developer's ability to customize Web sites. It separates Java code from the Web pages, making a site more maintainable. Because of this, it is a viable alternative to JSPs and PHP and is expected to become the standard template engine. In addition to its use with Struts and Turbine, Velocity can also be used to generate Java and XML source code, XML schemas, HTML templates, and SQL code. Even with all its promise, finding expert instructions on how to properly program with this language has been difficult. This code-intensive tutorial gives you all the tools you'll need. It begins by quickly bringing you up to speed on all of the Velocity fundamentals and the Velocity Template Language. You'll then learn how to apply Velocity in a variety of areas with the help of richly detailed code examples. Additionally, you'll be taken through the steps of building a complete application in order to see how you can utilize all of the techniques and technologies discussed in the book. Covering the latest features of Velocity 1.3, Mastering Apache Velocity shows you how to: * Build Java-based Web sites with Struts, servlets, Turbine, and other open-source tools * Generate a wide variety of Web content and code, including Java, XML, SQL, and Postgres

Web Services, Service-Oriented Architectures, and Cloud Computing - Douglas K. Barry 2003-05-28

Web services are leading to the use of more packaged software either as an internal service or an external service available over the Internet. These services, which will be connected together to create the information technology systems of the future, will require less custom software in our organizations and more creativity in the connections between the services. This book begins with a high-level example of how an average person in an organization might interact with a service-oriented architecture. As the book progresses, more technical detail is added in a "peeling of the onion" approach. The leadership opportunities within these developing service-oriented architectures are also explained. At the end of the book there is a compendium or "pocket library" for software technology related

to service-oriented architectures. · Only web services book to cover both data management and software engineering perspectives, excellent resource for ALL members of IT teams · Jargon free, highly illustrated, with introduction that anyone can read that then leads into increasing technical detail · Provides a set of leadership principles and suggested application for using this technology.

Microservices Patterns - Chris Richardson 2018-10-27

"A comprehensive overview of the challenges teams face when moving to microservices, with industry-tested solutions to these problems." - Tim Moore, Lightbend 44 reusable patterns to develop and deploy reliable production-quality microservices-based applications, with worked examples in Java Key Features 44 design patterns for building and deploying microservices applications Drawing on decades of unique experience from author and microservice architecture pioneer Chris Richardson A pragmatic approach to the benefits and the drawbacks of microservices architecture Solve service decomposition, transaction management, and inter-service communication Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Microservices Patterns teaches you 44 reusable patterns to reliably develop and deploy production-quality microservices-based applications. This invaluable set of design patterns builds on decades of distributed system experience, adding new patterns for composing services into systems that scale and perform under real-world conditions. More than just a patterns catalog, this practical guide with worked examples offers industry-tested advice to help you design, implement, test, and deploy your microservices-based application. What You Will Learn How (and why!) to use microservices architecture Service decomposition strategies Transaction management and querying patterns Effective testing strategies Deployment patterns This Book Is Written For Written for enterprise developers familiar with standard enterprise application architecture. Examples are in Java. About The Author Chris Richardson is a Java Champion, a JavaOne rock star, author of Manning's POJOs in Action, and creator of the original CloudFoundry.com. Table of Contents Escaping monolithic hell Decomposition strategies Interprocess communication in a microservice architecture Managing transactions with sagas Designing business logic in a microservice architecture Developing business logic with event sourcing Implementing queries in a microservice architecture External API patterns Testing microservices: part 1 Testing microservices: part 2 Developing production-ready services Deploying microservices Refactoring to microservices

Application Architecture for WebSphere - Joey Bernal 2008-09-15

Architect IBM® WebSphere® Applications for Maximum Performance, Security, Flexibility, Usability, and Value Successful, high-value WebSphere applications begin with effective architecture. Now, one of IBM's leading WebSphere and WebSphere Portal architects offers a hands-on, best-practice guide to every facet of defining, planning, and implementing WebSphere application architectures. Joey Bernal shows working architects and teams how to define layered architectural standards that can be used across the entire organization, improving application quality without compromising flexibility. Bernal begins by illuminating the role of architecture and the responsibilities of the architect in WebSphere applications and SOA environments. Next, he introduces specific architectural techniques for addressing persistence, application performance, security, functionality, user interaction, and much more. Bernal presents a series of sample architectures drawn from his work with several leading organizations, demonstrating how architectures can evolve to support new layers and changing business requirements. Throughout, his techniques are specific enough to address realistic enterprise challenges, while still sufficiently high-level to be useful in diverse and heterogeneous environments. Coverage includes · Choosing persistence frameworks that serve business requirements without excessive complexity · Avoiding persistence-related problems with performance, security, or application functionality · Designing and deploying effective middle layers and dependent libraries within WebSphere Application Server · Using WebSphere mechanisms and architectural techniques to avoid common security attacks such as

SQL injection • Improving performance with WebSphere Application Server caching, including Distributed Maps and Servlet/JSP fragment caching • Using presentation frameworks to provide fast, robust, and attractive user interaction • Incorporating portals that provide a standardized framework for merging multiple applications Joey Bernal is an Executive IT Specialist with IBM Software Services for Lotus. Senior Certified with IBM as an IT Specialist, he has an extensive background in designing and developing Web and Portal Applications. He often leads IBM teams that have assisted dozens of clients in leveraging WebSphere Portal to address architecture, design, and implementation challenges. A frequent speaker on WebSphere and portal topics, Bernal is coauthor of Programming Portlets, and hosts the developerWorks blog: WebSphere Portal in Action. Prior to joining IBM, he was Director of IT for an incentive and performance improvement company, and served as lead technical advisor and architect for high-profile Internet and intranet applications at several Fortune 500 companies. You can also visit the author's Web site at www.bernal.net. The IBM Press developerWorks® Series is a unique undertaking in which print books and the Web are mutually supportive. The publications in this series are complemented by resources on the developerWorks Web site on ibm.com®. Icons throughout the book alert the reader to these valuable resources.

Sams Teach Yourself EJB in 21 Days - Ragae Ghaly 2002

The authors provides an in-depth introduction to Enterprise JavaBeans, a core component of the Java 2 Enterprise platform. Security information is included for enterprise applications, a very important topic in today's technology arena.

CompTIA PenTest+ Certification For Dummies - Glen E. Clarke 2022-02-18

Advance your existing career, or build a new one, with the PenTest+ certification Looking for some hands-on help achieving one of the tech industry's leading new certifications? Complete with an online test bank to help you prep for the exam, CompTIA PenTest+ Certification For Dummies, 2nd Edition guides you through every competency tested by the exam. Whether you're a seasoned security pro looking to looking to add a new cert to your skillset, or you're an early-career cybersecurity professional seeking to move forward, you'll find the practical, study-centered guidance you need to succeed on the certification exam. In this book and online, you'll get: A thorough introduction to the planning and information gathering phase of penetration testing, including scoping and vulnerability identification Comprehensive examinations of system exploits, vulnerabilities in wireless networks, and app-based intrusions In-depth descriptions of the PenTest+ exam and an Exam Reference Matrix to help you get more familiar with the structure of the test Three practice tests online with questions covering every competency on the exam Perfect for cybersecurity pros looking to add an essential new certification to their repertoire, CompTIA PenTest+ Certification For Dummies, 2nd Edition is also a great resource for those looking for a way to cement and build on fundamental pentesting skills.

An Atypical ASP.NET Core 6 Design Patterns Guide - Carl-Hugo Marcotte 2022-03-28

The professional developer's essential guide to building robust, maintainable, and flexible web apps by leveraging C# 10 and .NET 6 features and component- and application-scale design patterns Key FeaturesApply the SOLID architectural principles and software design patterns effectively with a focus on dependency injectionDiscover modern application architectures such as vertical slice, clean architecture, and event-driven microservicesExplore full-stack ASP.NET Core with an overview of BlazorBook Description An Atypical ASP.NET Core 6 Design Patterns Guide, Second Edition approaches programming like playing with LEGO®: snapping small pieces together to create something beautiful. Thoroughly updated for ASP.NET Core 6, with further coverage of microservices patterns, data contracts, and event-driven architecture, this book gives you the tools to build and glue reliable components together to improve your programmatic masterpieces. The chapters are organized based on scale and topic, allowing you to start small and build on a strong base, the same way that you would develop a program. You will begin by exploring basic design patterns, SOLID architectural principles, dependency injection, and other ASP.NET Core 6 mechanisms. You will explore

component-scale patterns, and then move to higher level application-scale patterns and techniques to better structure your applications. Finally, you'll advance to the client side to connect the dots with tools like Blazor and make ASP.NET Core a viable full-stack web development framework. You will supplement your learning with practical use cases and best practices, exploring a range of significant Gang of Four (GoF) design patterns along the way. By the end of the book, you will be comfortable combining and implementing patterns in different ways, and crafting software solutions of any scale. What you will learnApply the SOLID principles for building flexible and maintainable softwareGet to grasp .NET dependency InjectionWork with GoF design patterns such as strategy, decorator, facade, and compositeExplore the MVC patterns for designing web APIs and web applications using RazorDiscover layering techniques and tenets of clean architectureBecome familiar with CQRS and vertical slice architecture as an alternate to layeringUnderstand microservices and when they can benefit your applicationsBuild an ASP.NET user interfaces from server-side to client-side BlazorWho this book is for The book is intended for intermediate software and web developers with an understanding of .NET who want to write flexible, maintainable, and robust code for building scalable web applications. Knowledge of C# programming and an understanding of web concepts like HTTP is necessary.

J2EE Best Practices - Darren Broemmer 2002-11-15

Learn how to apply robust application design to your J2EE projects There are a number of best practices you need to consider to build highly effective J2EE components and integrate them into applications. These practices include evaluating and selecting the right set of software components and services to handle the job. In this book, Darren Broemmer supplies you with a set of best practices for J2EE development and then teaches you how to use them to construct an application architecture referred to as the reference architecture. The design and implementation of the reference architecture is based on a set of guiding principles that are used to optimize and automate J2EE development. In addition to the author's thorough discussions of the latest technologies for J2EE implementation—including EJB 2, Jakarta Struts, Servlets, Java Server Pages, UML, design patterns, Common Business Logic Foundation components, and XML—Broemmer addresses such topics as: Understanding J2EE application architecture Building business applications with J2EE, a business object architecture, and extensible components created with design patterns Designing and implementing a sample banking Web application Integrating proven performance-engineering and optimization practices in the development process Using metadata-driven, configurable foundation components to automate much of the development and processing of Web-based business applications The companion Web site contains the source code for a Common Business Logic Foundation and sample applications from the book, including a Jakarta Struts project and a banking application. Links to the Jakarta Struts frameworks and J2EE application servers such as BEA WebLogic and IBM WebSphere are also provided.

Web Services - Gustavo Alonso 2013-03-14

Like many other incipient technologies, Web services are still surrounded by a substantial level of noise. This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be. On the one hand, multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services. On the other hand, the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term. These factors make it extremely difficult to get a coherent picture of what Web services are, what they contribute, and where they will be applied. Alonso and his co-authors deliberately take a step back. Based on their academic and industrial experience with middleware and enterprise application integration systems, they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware, necessary to meet the challenges of the Web and of B2B application integration. Rather than providing a

reference guide or a "how to write your first Web service" kind of book, they discuss the main objectives of Web services, the challenges that must be faced to achieve them, and the opportunities that this novel technology provides. Established, as well as recently proposed, standards and techniques (e.g., WSDL, UDDI, SOAP, WS-Coordination, WS-Transactions, and BPEL), are then examined in the context of this discussion in order to emphasize their scope, benefits, and shortcomings. Thus, the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies.

SPA Design and Architecture - Emmit A. Scott, Jr. 2015-11-12

Summary SPA Design and Architecture teaches you the design and development skills you need to create SPAs. Includes an overview of MV* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The next step in the development of web-based software, single-page web applications deliver the sleekness and fluidity of a native desktop application in a browser. If you're ready to make the leap from traditional web applications to SPAs, but don't know where to begin, this book will get you going. About the Book SPA Design and Architecture teaches you the design and development skills you need to create SPAs. You'll start with an introduction to the SPA model and see how it builds on the standard approach using linked pages. The author guides you through the practical issues of building an SPA, including an overview of MV* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. What's Inside Working with modular JavaScript Understanding MV* frameworks Layout management Client-side task automation Testing SPAs About the Reader This book assumes you are a web developer and know JavaScript basics. About the Author Emmit Scott is a senior software engineer and architect with experience building large-scale, web-based applications. Table of Contents PART 1 THE BASICS What is a single-page application? The role of MV* frameworks Modular JavaScript PART 2 CORE CONCEPTS Navigating the single page View composition and layout Inter-module interaction Communicating with the server Unit testing Client-side task automation APPENDIXES Employee directory example walk-through Review of the XMLHttpRequest API Chapter 7 server-side setup and summary Installing Node.js and Gulp.js

Spring MVC: Designing Real-World Web Applications - Shameer Kunjumohamed 2016-11-11

Unleash the power of Spring MVC and build enterprise-grade, lightning-fast web applications About This Book Configure Spring MVC to build logic-less controllers that transparently support the most advanced web techniques Secure your developments with easy-to-write, reliable unit and end-to-end tests Get this fast-paced, practical guide to produce REST resources and templates as required by the latest front-end best practices Who This Book Is For This Learning Path is for Java developers who want to exploit Spring MVC and its features to build web applications. It will help you step up in your career and stay up to date or learn more about Spring's web scalability. What You Will Learn Set up and build standalone and web-based projects using Spring Framework with Maven or Gradle Develop RESTful API applications for XML and JSON data transfers Investigate Spring data access mechanisms with Spring Data Repositories Generate templates for a responsive and powerful front end with AngularJS and Bootstrap Authenticate over REST with a BASIC authentication scheme and OAuth2; handle roles and permissions Communicate through WebSocket and STOMP messages Design complex advanced-level forms and validate the model Create maintainable unit and acceptance tests to secure the apps Deploy the web application to the cloud in a snap In Detail Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is designed in such a way that every piece of logic and functionality is

highly configurable. This Learning Path aims to make you an expert in designing web applications with Spring MVC 4. In our first module, we'll begin with an introduction to the Spring framework. You'll then learn aspect-oriented programming. Packed with real-world examples, you'll get an insight into how you can use Spring Expression Language in your applications to make them easier to manage and maintain. In the second module, you'll learn everything you need to build modern Spring-based enterprise web applications. From practical development techniques and useful tools from the wider Spring ecosystem, to the new JEE standards, the impact of JavaScript, and even the Internet of Things, you'll feel confident that you can deploy Spring for an impressive range of creative purposes. In the final module, you'll find out how to take advantage of Spring MVC's advanced features - essential if you are to properly master the framework. To do this you'll investigate the inner mechanics of Spring MVC, and how they tie into to the broader principles that inform many modern web architectures. With further guidance on how to test, secure, and optimize your application, as well as designing RESTful services, you'll very quickly be ready to use Spring in your next web project. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Spring Essentials by Shameer Kunjumohamed, Hamidreza Sattari Spring MVC Cookbook by Alex Bretet Mastering Spring MVC 4 by Geoffroy Warin Style and approach This is a hands-on, practical guide based on logical modules of the whole Spring framework family, employing a combination of theory and examples with pro-level practices, techniques, and solutions.

Architecting Web Services - William Oellermann 2001-09-01

Architecting Web Services is targeted toward developers and technical architects who have heard about, and even started to work with, Web services. The book starts with a background on the evolution of Web services and their significance to future collaborative efforts via the Internet. It then reveals the architecture for Web services and the various relationships that can be established through their consumption. Following a short technical primer on XML and related technologies, the Web services model is outlined to illustrate the decisions that have to be made in the areas of presentation, interface, and security before the design is even started. Topics ranging from content to state management to system infrastructures are discussed to help you understand the options and the pitfalls when developing robust Web services. The life cycle of implementing Web services from start to finish is illustrated, taking existing processes and exposing their functionality through Web services. Examples extend both Java and COM objects as Web services before exposing an entire hotel reservation system through a Web services workflow. These exercises are followed by three application scenarios that consume these Web services, again with both Java and Visual Basic/ASP examples. Discussions cover the design, implementation, and testing of each solution to ensure a successful result. Finally, the book takes a look ahead at the future of Web services by examining both the current strategies of the primary vendors and the standards initiatives that are presently under way. A companion website provides all the source code, and hosts the Web services and sample applications introduced in the book.

Building Scalable and High-performance Java Web Applications Using J2EE Technology - Greg Barish 2002

Scaling Java enterprise applications beyond just programming techniques--this is the next level. This volume covers all the technologies Java developers need to build scalable, high-performance Web applications. The book also covers servlet-based session management, EJB application logic, database design and integration, and more.

Hybrid Cloud Data and API Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services - Srinivas Cheemalapati 2016-02-19

IBM® Hybrid Integration Services is a set of hybrid cloud capabilities in IBM Bluemix™ that allows businesses to innovate rapidly while, at the same time, providing IT control and visibility. It allows customers to quickly and easily build and operate systems that mix data and application programming interfaces

(APIs) from a wide variety of sources, whether they reside on-premises or in the cloud. In many cases, you want to expose your IT assets from your private cloud as APIs and at the same time have best overall manageability and control of who uses your assets and how. Bluemix provides a set of services such as Secure Gateway, API Management, Connect and Compose, DataWorks, and API Catalog, which enable Hybrid Cloud Integration capabilities. This IBM Redbooks® publication provides preferred practices around developing cloud solutions using these Hybrid Integration Services that help you maintain data consistency, manageability, and security for critical transactions.

Designing Microservices Platforms with NATS - Chanaka Fernando 2021-11-19

A complete reference for designing and building scalable microservices platforms with NATS messaging technology for inter-service communication with security and observability. Key Features: Understand the use of a messaging backbone for inter-service communication in microservices architecture; Design and build a real-world microservices platform with NATS as the messaging backbone using the Go programming language; Explore security, observability, and best practices for building a microservices platform with NATS. Book Description: Building a scalable microservices platform that caters to business demands is critical to the success of that platform. In a microservices architecture, inter-service communication becomes a bottleneck when the platform scales. This book provides a reference architecture along with a practical example of how to implement it for building microservices-based platforms with NATS as the messaging backbone for inter-service communication. In *Designing Microservices Platforms with NATS*, you'll learn how to build a scalable and manageable microservices platform with NATS. The book starts by introducing concepts relating to microservices architecture, inter-service communication, messaging backbones, and the basics of NATS messaging. You'll be introduced to a reference architecture that uses these concepts to build a scalable microservices platform and guided through its implementation. Later, the book touches on important aspects of platform securing and monitoring with the help of the reference implementation. Finally, the book concludes with a chapter on best practices to follow when integrating with existing platforms and the future direction of microservices architecture and NATS messaging as a whole. By the end of this microservices book, you'll have developed the skills to design and implement microservices platforms with NATS. What you will learn: Understand the concepts of microservices architecture; Get to grips with NATS messaging technology; Handle transactions and message delivery guarantees with microservices; Implement a reference architecture for microservices using NATS; Discover how to improve the platform's security and observability; Explore how a NATS microservices platform integrates with an enterprise ecosystem. Who this book is for: This book is for enterprise software architects and developers who want to gain hands-on microservices experience for designing, implementing, and managing complex distributed systems with microservices architecture concepts. Intermediate-level experience in any programming language and software architecture is required to make the most of this book.

Enterprise Application Architecture with .NET Core - Ganesan Senthilvel 2017-04-25

Architect and design highly scalable, robust, clean and highly performant applications in .NET Core. About This Book: Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives. Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions. Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book. Who This Book Is For: This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn: Grasp the important aspects and best practices of application lifecycle management. Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise. Explore various authentication models such as social media-based authentication, 2FA and OpenID

Connect, learn authorization techniques. Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers. Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies. In Detail: If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach: Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

Practical J2EE Application Architecture - Nadir Gulzar 2003-06-27

Provides developers with a complete roadmap for building large-scale J2EE applications. You will get a cohesive approach for producing optimal solutions through rigorous life-cycle management techniques from inception through deployment. Includes sample Web site--hosted by the authors--that features real-world demonstrations of all the book's concepts.

Rational Application Developer V7.5 Programming Guide - Ueli Wahli 2009-06-29

IBM® Rational® Application Developer for WebSphere® Software v7.5 (Application Developer, for short) is the full function Eclipse 3.4 based development platform for developing Java™ Standard Edition Version 6 (Java SE 6) and Java Enterprise Edition Version 5 (Java EE 5) applications with a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development tools for all development roles, including Web developers, Java developers, business analysts, architects, and enterprise programmers. Rational Application Developer is part of the IBM Rational Software Delivery Platform (SDP), which contains products in four life cycle categories: - Architecture management, which includes integrated development environments - Change and release management - Process and portfolio management - Quality management. This IBM Redbooks™ publication is a programming guide that highlights the features and tooling included with Rational Application Developer v7.5. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications, as well as achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7 Programming Guide, SG24-7501.

Web Services Business Strategies and Architectures - Mike Clark 2013-12-14

Adopting Web Services will affect many processes within any organization. To throw light on the most important issues, we have commissioned Experts in the Industry to share their insights. The resultant papers cover a broad spectrum from architecture to business strategies without diverting into deep technological fashions. Each study in the collection will answer specific business challenges thrown up by Web Service architectures. Before changing, commissioning, or evaluating a Web Service initiative, all IT Managers, System Architects, Lead Developers, and Business Visionaries should study and reference this book.

Serverless Design Patterns and Best Practices - Brian Zambrano 2018-04-12

Get started with designing your serverless application using optimum design patterns and industry standard practices. Key Features: Learn the details of popular software patterns and how they are applied to serverless applications. Understand

key concepts and components in serverless designs Walk away with a thorough understanding of architecting serverless applications Book Description Serverless applications handle many problems that developers face when running systems and servers. The serverless pay-per-invocation model can also result in drastic cost savings, contributing to its popularity. While it's simple to create a basic serverless application, it's critical to structure your software correctly to ensure it continues to succeed as it grows. Serverless Design Patterns and Best Practices presents patterns that can be adapted to run in a serverless environment. You will learn how to develop applications that are scalable, fault tolerant, and well-tested. The book begins with an introduction to the different design pattern categories available for serverless applications. You will learn the trade-offs between GraphQL and REST and how they fare regarding overall application design in a serverless ecosystem. The book will also show you how to migrate an existing API to a serverless backend using AWS API Gateway. You will learn how to build event-driven applications using queuing and streaming systems, such as AWS Simple Queuing Service (SQS) and AWS Kinesis. Patterns for data-intensive serverless application are also explained, including the lambda architecture and MapReduce. This book will equip you with the knowledge and skills you need to develop scalable and resilient serverless applications confidently. What you will learn Comprehend the popular design patterns currently being used with serverless architectures Understand the various design options and corresponding implementations for serverless web application APIs Learn multiple patterns for data-intensive serverless systems and pipelines, including MapReduce and Lambda Architecture Learn how to leverage hosted databases, queues, streams, storage services, and notification services Understand error handling and system monitoring in a serverless architecture a serverless architecture Learn how to set up a serverless application for continuous integration, continuous delivery, and continuous deployment Who this book is for If you're a software architect, engineer, or someone who wants to build serverless applications, which are non-trivial in complexity and scope, then this book is for you. Basic knowledge of programming and serverless computing concepts are assumed.

Professional BizTalk Server 2006 - Darren Jefford 2007-04-27

This book provides insight into how industry experts have successfully architected, developed, and maintained Microsoft BizTalk Server in mission-critical environments. Authored by highly-regarded consultants with a wealth of knowledge on designing, building, and operating enterprise applications using BizTalk, this comprehensive guide gives you the techniques and best practices you'll need to develop effective projects. Darren Jefford is a Principal Consultant with the Microsoft UK Application Development Consulting (ADC) team who has extensive real-world experience with BizTalk Server and the broader Microsoft platform. Kevin B. Smith formerly worked as a Technical Lead Software Design Engineer for the BizTalk Server Product Team and helped ship three versions of BizTalk Server. Ewan Fairweather works as a Premier Field Engineer for Microsoft, providing onsite support to enterprise customers, including maintaining and optimizing their BizTalk Server solutions. Architects, developers, testers, and administrators will achieve instant success when they apply the deep technical information covered in this book. They will better appreciate the internal workings of BizTalk Server and will understand detailed solutions for challenges often experienced with BizTalk-based systems.

Expert One-on-One J2EE Design and Development - Rod Johnson 2004-08-04

What is this book about? The results of using J2EE in practice are often disappointing: applications are often slow, unduly complex, and take too long to develop. Rod Johnson believes that the problem lies not in J2EE itself, but in that it is often used badly. Many J2EE publications advocate approaches that, while fine in theory, often fail in reality, or deliver no real business value. Expert One-on-One: J2EE Design and Development aims to demystify J2EE development. Using a practical focus, it shows how to use J2EE technologies to reduce, rather than increase, complexity. Rod draws on his experience of designing successful high-volume J2EE applications and salvaging failing projects, as well as intimate

knowledge of the J2EE specifications, to offer a real-world, how-to guide on how you too can make J2EE work in practice. It will help you to solve common problems with J2EE and avoid the expensive mistakes often made in J2EE projects. It will guide you through the complexity of the J2EE services and APIs to enable you to build the simplest possible solution, on time and on budget. Rod takes a practical, pragmatic approach, questioning J2EE orthodoxy where it has failed to deliver results in practice and instead suggesting effective, proven approaches. What does this book cover? In this book, you will learn When to use a distributed architecture When and how to use EJB How to develop an efficient data access strategy How to design a clean and maintainable web interface How to design J2EE applications for performance Who is this book for? This book would be of value to most enterprise developers. Although some of the discussion (for example, on performance and scalability) would be most relevant to architects and lead developers, the practical focus would make it useful to anyone with some familiarity with J2EE. Because of the complete design-deployment coverage, a less advanced developer could work through the book along with a more introductory text, and successfully build and understand the sample application. This comprehensive coverage would also be useful to developers in smaller organisations, who might be called upon to fill several normally distinct roles. What is special about this book? Wondering what differentiates this book from others like it in the market? Take a look: It does not just discuss technology, but stress its practical application. The book is driven from the need to solve common tasks, rather than by the elements of J2EE. It discuss risks in J2EE development It takes the reader through the entire design, development and build process of a non-trivial application. This wouldn't be compressed into one or two chapters, like the Java Pet Store, but would be a realistic example comparable to the complexity of applications readers would need to build. At each point in the design, alternative choices would be discussed. This would be important both where there's a real problem with the obvious alternative, and where the obvious alternatives are perhaps equally valid. It emphasizes the use of OO design and design patterns in J2EE, without becoming a theoretical book

Clean Architecture - Robert C. Martin 2017-09-12

Practical Software Architecture Solutions from the Legendary Robert C. Martin ("Uncle Bob") By applying universal rules of software architecture, you can dramatically improve developer productivity throughout the life of any software system. Now, building upon the success of his best-selling books Clean Code and The Clean Coder, legendary software craftsman Robert C. Martin ("Uncle Bob") reveals those rules and helps you apply them. Martin's Clean Architecture doesn't merely present options. Drawing on over a half-century of experience in software environments of every imaginable type, Martin tells you what choices to make and why they are critical to your success. As you've come to expect from Uncle Bob, this book is packed with direct, no-nonsense solutions for the real challenges you'll face-the ones that will make or break your projects. Learn what software architects need to achieve-and core disciplines and practices for achieving it Master essential software design principles for addressing function, component separation, and data management See how programming paradigms impose discipline by restricting what developers can do Understand what's critically important and what's merely a "detail" Implement optimal, high-level structures for web, database, thick-client, console, and embedded applications Define appropriate boundaries and layers, and organize components and services See why designs and architectures go wrong, and how to prevent (or fix) these failures Clean Architecture is essential reading for every current or aspiring software architect, systems analyst, system designer, and software manager-and for every programmer who must execute someone else's designs. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

ASP.NET 3.5 Application Architecture and Design - Rakesh Shejwal 2005*

Angular for Enterprise-Ready Web Applications - Doguhan Uluca 2020-05-29

Revised and updated second edition of the bestselling hands-on guide to building enterprise-ready web apps using an evergreen Angular platform Key Features Updated examples, projects, and a new overview of tools - including NgRX and Ivy, automated testing, and Firebase authentication New chapter summarizing history of web frameworks and Angular version updates All-new RESTful API implementation leveraging the MEAN stack with MongoDB, Express.js, Angular and Node.js Book Description This second edition of Angular for Enterprise-Ready Web Applications is updated with in-depth coverage of the evergreen Angular platform. You'll start by mastering Angular programming fundamentals. Using the Kanban method and GitHub tools, you'll build great-looking apps with Angular Material and also leverage reactive programming patterns with RxJS, discover the flux pattern with NgRx, become familiar with automated testing, utilize continuous integration using CircleCI, and deploy your app to the cloud using Vercel Now and GCloud. You will then learn how to design and develop line-of-business apps using router-first architecture with observable data anchors, demonstrated through oft-used recipes like master/detail views, and data tables with pagination and forms. Next, you'll discover robust authentication and authorization design demonstrated via integration with Firebase, API documentation using Swagger, and API implementation using the MEAN stack. Finally, you will learn about DevOps using Docker, build a highly available cloud infrastructure on AWS, capture user behavior with Google Analytics, and perform load testing. By the end of the book, you'll be familiar with the entire gamut of modern web development and full-stack architecture, learning patterns and practices to be successful as an individual developer on the web or as a team in the enterprise. What you will learn Adopt a minimalist, value-first approach to delivering web apps Master Angular development fundamentals, RxJS, CLI tools, GitHub, and Docker Discover the flux pattern and NgRx Implement a RESTful APIs using Node.js, Express.js, and MongoDB Create secure and efficient web apps for any cloud provider or your own servers Deploy your app on highly available cloud infrastructure using DevOps, CircleCI, and AWS Who this book is for This book is for developers who want to confidently deliver high-quality and production-grade Angular apps from design to deployment. Developers that have prior experience in writing a RESTful APIs will also benefit, as well as developers who will gain greater awareness of how they fit into the larger picture of delivering a web application. Prior experience with RESTful APIs is desired.

Patterns of Enterprise Application Architecture - Martin Fowler 2012-03-09

The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing

business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

ASP.NET 3.5 Application Architecture and Design - Vivek Thakur 2008-10-24

Build robust, scalable ASP.NET applications quickly and easily.

Building Web Applications with UML - Jim Conallen 1999

Introduction and summary of web-related technologies; Web application basics; Dynamic clients; Beyond http and html; Security; The process; Defining the architecture; Requirements and use case; Analysis; Design; Implementation. **Innovative Data Communication Technologies and Application** - Jennifer S. Raj 2022-02-24

This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile computing, cloud computing, and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2021), are included in the book. The book focuses on the theory, design, analysis, implementation, and application of distributed systems and networks.

Guide to Web Application and Platform Architectures - Stefan Jablonski 2004-08-05

New concepts and technologies are being introduced continuously for application development in the World-Wide Web. Selecting the right implementation strategies and tools when building a Web application has become a tedious task, requiring in-depth knowledge and significant experience from both software developers and software managers. The mission of this book is to guide the reader through the opaque jungle of Web technologies. Based on their long industrial and academic experience, Stefan Jablonski and his coauthors provide a framework architecture for Web applications which helps choose the best strategy for a given project. The authors classify common technologies and standards like .NET, CORBA, J2EE, DCOM, WSDL and many more with respect to platform, architectural layer, and application package, and guide the reader through a three-phase development process consisting of preparation, design, and technology selection steps. The whole approach is exemplified using a real-world case: the architectural design of an order-entry management system.

Transactions on Petri Nets and Other Models of Concurrency IX - Maciej Koutny

2014-12-02

These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency, ranging from theoretical work to tool support and industrial applications. ToPNoC issues are published as LNCS volumes, and hence are widely distributed and indexed. This Journal has its own Editorial Board which selects papers based on a rigorous two-stage refereeing process. ToPNoC contains: - Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences - Special sections/issues within particular subareas (similar to those published in the Advances in Petri Nets series) - Other papers invited for publication in ToPNoC - Papers submitted directly to ToPNoC by their authors The 9th volume of ToPNoC contains revised and extended versions of a selection of the best workshop papers presented at the 34th International Conference on Application and Theory of Petri Nets and Concurrency (Petri Nets 2013) and the 13th International Conference on Application of Concurrency to System Design (ACSD 2013). It also contains one paper submitted directly to ToPNoC. The 8 papers cover a diverse range of topics including model checking and system verification, refinement and synthesis, foundational work on specific classes of Petri nets, and innovative applications of Petri nets and other models of concurrency. Application areas covered in this volume are: biological systems, communication protocols, business processes, distributed systems, and multi-agent systems. Thus, this volume gives a good view of ongoing concurrent systems and Petri nets research.

Full Stack Development with JHipster - Deepu K Sasidharan 2018-03-23

Discover the world of Full Stack Development with real-world examples. Key Features Leverage the full power of the JHipster platform to build complex web applications Create microservices from scratch and convert JHipster monolith apps into microservices Build and deploy applications locally, in Docker and on various cloud platforms. Book Description JHipster is a development platform to generate, develop, and deploy Spring Boot and Angular/React applications and Spring microservices. It provides you with a variety of tools that will help you quickly build modern web applications. This book will be your guide to building full stack applications with Spring and Angular using the JHipster tool set. You will begin by understanding what JHipster is and the various tools and technologies associated with it. You will learn the essentials of a full stack developer before getting hands-on and building a monolithic web application with JHipster. From here you will learn the JHipster Domain Language with entity modeling and entity creation using JDL and JDL studio. Moving on, you will be introduced to client side technologies such as Angular and Bootstrap and will delve into technologies such as Spring Security, Spring MVC, and Spring Data. You will learn to build and package apps for production with various deployment options such as Heroku and more. During the course of the book, you will be introduced to microservice server-side technologies and how to break your monolithic application with a database of your choice. Next, the book takes you through cloud deployment with microservices on Docker and Kubernetes. Going forward, you will learn to build your client side with React and master JHipster best practices. By the end of the book, you will be able to leverage the power of the best tools available to build modern web applications. What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular, Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack, which includes Netflix Eureka, Spring Cloud config, HashiCorp Consul, and so on. Understand advanced microservice concepts such as API rout, load balancing, rate limit, circuit break, centralized configuration server, JWT authentication, and more Run microservices locally using Docker and Kubernetes (in production) Who this book is for This book will appeal to developers who would like to build modern web applications quickly. A basic knowledge of the Spring ecosystem would be an added advantage.

Practical J2Ee Application Architecture (With Strut - Nadir Gulzar 2003-07-07

Provides developers with a complete roadmap for building large-scale J2EE applications. You will get a cohesive approach for producing optimal solutions through rigorous life-cycle management techniques from inception through deployment. Includes sample Web site hosted by the authors--that features real-world demonstrations of all the book s concepts.

Java EE 8 Design Patterns and Best Practices - Rhuan Rocha 2018-08-10

Get the deep insights you need to master efficient architectural design considerations and solve common design problems in your enterprise applications.

Key Features The benefits and applicability of using different design patterns in JAVA EE Learn best practices to solve common design and architectural challenges Choose the right patterns to improve the efficiency of your programs Book Description Patterns are essential design tools for Java developers. Java EE Design Patterns and Best Practices helps developers attain better code quality and progress to higher levels of architectural creativity by examining the purpose of each available pattern and demonstrating its implementation with various code examples. This book will take you through a number of patterns and their Java EE-specific implementations. In the beginning, you will learn the foundation for, and importance of, design patterns in Java EE, and then will move on to implement various patterns on the presentation tier, business tier, and integration tier. Further, you will explore the patterns involved in Aspect-Oriented Programming (AOP) and take a closer look at reactive patterns. Moving on, you will be introduced to modern architectural patterns involved in composing microservices and cloud-native applications. You will get acquainted with security patterns and operational patterns involved in scaling and monitoring, along with some patterns involved in deployment. By the end of the book, you will be able to efficiently address common problems faced when developing applications and will be comfortable working on scalable and maintainable projects of any size. What you will learn Implement presentation layers, such as the front controller pattern Understand the business tier and implement the business delegate pattern Master the implementation of AOP Get involved with asynchronous EJB methods and REST services Involve key patterns in the adoption of microservices architecture Manage performance and scalability for enterprise-level applications Who this book is for Java developers who are comfortable with programming in Java and now want to learn how to implement design patterns to create robust, reusable and easily maintainable apps.

ASP.NET MVC 4 Recipes - John Ciliberti 2013-04-01

ASP.NET MVC 4 Recipes is a practical guide for developers creating modern web applications, cutting through the complexities of ASP.NET, jQuery, Knockout.js and HTML 5 to provide straightforward solutions to common web development problems using proven methods based on best practices. The problem-solution approach gets you in, out, and back to work quickly while deepening your understanding of the underlying platform and how to develop with it. Author John Ciliberti guides you through the framework and development tools, presenting typical challenges, along with code solutions and clear, concise explanations, to accelerate application development. Inside you will find recipes dealing with streamlined syntax, full control over HTML, a simple API for creating RESTful web services, writing support for test driven development, and more. Solve problems immediately by pasting in code from the recipes, or put multiple recipe solutions together to overcome challenging development obstacles. Dive head first into ASP.NET MVC web development with ASP.NET MVC 4 Recipes.