

## Expert Oneonone J2ee Design And Development

This is a brilliantly practical work that lets the reader experience a real-world scalable agile enterprise Java-based application being built from the ground up using the latest Spring 2.x kit available. The open source agile lightweight Spring (meta) Framework 2.x is by far the leading innovative force and "lightning rod" that's driving today's Java industry. Spring has time and time again proven itself in real-world highly scalable enterprise settings such as banks and other financial institutions. This book is the only authoritative Spring 2 authored book, as it has been written by team members of Interface21, the group that lead the Spring Foundation and its growing community.

Professional Java Tools for Extreme Programming is a practical, code-intensive guide to the tools that Enterprise Java developers need when using Extreme Programming (XP) methods. It covers the key tools used to automate the most complex parts of the XP process: application integration, testing, and deployment.

400+ Java/J2EE Interview questions with clear and concise answers for: job seekers (junior/senior developers, architects, team/technical leads), promotion seekers, pro-active learners and interviewers. Lulu top 100 best seller. Increase your earning potential by learning, applying and succeeding. Learn the fundamentals relating to Java/J2EE in an easy to understand questions and answers approach. Covers 400+ popular interview Q&A with lots of diagrams, examples, code snippets, cross referencing and comparisons. This is not only an interview guide but also a quick reference guide, a refresher material and a roadmap covering a wide range of Java/J2EE related topics. More Java J2EE interview questions and answers & resume resources at <http://www.lulu.com/java-succes>

\* The concepts of AOP are presented independently of any particular implementation \* The book covers all 4 major existing tools for AOP: AspectJ, JBoss AOP, AspectWerkz, JAC \* The book covers the implementation of a technical aspect based on the Hibernate object/relational persistence framework, a J2EE application implemented with AspectJ, and applications of AOP in the domains of programming by contracts, program testing, and application management

Aimed at users who are familiar with Java development, "Spring Live" is designed to explain how to integrate Spring into your projects to make software development easier. (Technology & Industrial)

Expert One-on-One J2EE Design and Development John Wiley & Sons

Authoritative guide to Oracle WebLogic Server-from Oracle insiders If you're an experienced Java developer who wants to expand your skills, Professional Oracle WebLogic Server is the perfect guide for you. This book is written by a top-notch author team that includes one of the lead architects from Oracle's Fusion Middleware Development Architects team. Follow their best practices, workarounds, and sound techniques and confidently develop even the most mission-critical applications with WebLogic Server. This book fully covers WebLogic Server 11g, including the new features of both JEE 5 and WebLogic Server, as well as JEE 5 annotations, Spring, JPA, JAX-WS, JMS Store-And-Forward, SAML support, and the WLST administrative scripting tool. This book is the authoritative guide to Choosing a Web application architecture Best practices for development and production environments Designing an Java EE application Building Enterprise JavaBeans in WebLogic Server Building an EJB application Packaging and deploying WebLogic web applications Developing and deploying web services Using WebLogic JMS Using WebLogic security Administering and deploying applications in WebLogic Server Optimizing WebLogic Server performance

Get started with Spring Framework 5 and its ecosystem, with a guide to the working practices in modern development. This book will teach you how to use the Spring Framework to build Java-based applications, web applications, and microservices. You'll see how Spring has drastically and positively affected the way we program and design applications in Java. Beginning Spring 5 discusses how you can build apps with the Spring mindset and what the benefits of that mindset are. Along the way you will learn many aspects of the Spring ecosystem with easy-to-understand applications designed to teach you not only the technology, but also the practices that benefit the most from Spring. What You Will Learn Discover the most common use cases encountered in the real world Create reliable, tested, modular software, building skills that will translate well across all languages and environments. Integrate and use data access and persistence frameworks such as Hibernate, JPA, and MongoDB Program functional or reactive Java with the latest Spring 5 features including WebFlux Who This Book Is For Those who are new to Spring or for those who have experience with Spring but want to learn what's new in Spring 5. This book assumes you have some prior coding experience in Java at least.

Learn how to use the core Hibernate APIs and tools as part of the Spring Framework. This book illustrates how these two frameworks can be best utilized. Other persistence solutions available in Spring are also shown including the Java Persistence API (JPA). Spring Persistence with Hibernate, Second Edition has been updated to cover Spring Framework version 4 and Hibernate version 5. After reading and using this book, you'll have the fundamentals to apply these persistence solutions into your own mission-critical enterprise Java applications that you build using Spring. Persistence is an important set of techniques and technologies for accessing and using data, and ensuring that data is mobile regardless of specific applications and contexts. In Java development, persistence is a key factor in enterprise, e-commerce, and other transaction-oriented applications. Today, the agile and open source Spring Framework is the leading out-of-the-box, open source solution for enterprise Java developers; in it, you can find a number of Java persistence solutions. What You'll Learn Use Spring Persistence, including using persistence tools in Spring as well as choosing the best Java persistence frameworks outside of Spring Take advantage of Spring Framework features such as Inversion of Control (IoC), aspect-oriented programming (AOP), and more Work with Spring JDBC, use declarative transactions with Spring, and reap the benefits of a lightweight persistence strategy Harness Hibernate

and integrate it into your Spring-based enterprise Java applications for transactions, data processing, and more Integrate JPA for creating a well-layered persistence tier in your enterprise Java application Who This Book Is For This book is ideal for developers interested in learning more about persistence framework options on the Java platform, as well as fundamental Spring concepts. Because the book covers several persistence frameworks, it is suitable for anyone interested in learning more about Spring or any of the frameworks covered. Lastly, this book covers advanced topics related to persistence architecture and design patterns, and is ideal for beginning developers looking to learn more in these areas.

“The Java™ landscape is littered with libraries, tools, and specifications. What’s been lacking is the expertise to fuse them into solutions to real-world problems. These patterns are the intellectual mortar for J2EE software construction.” —John Vlissides, coauthor of Design Patterns: Elements of Reusable Object-Oriented Software Pro Java™ EE Spring Patterns focuses on enterprise patterns, best practices, design strategies, and proven solutions using key Java EE technologies including JavaServer Pages™, Servlets, Enterprise JavaBeans™, and Java Message Service APIs. This Java EE patterns resource, catalog, and guide, with its patterns and numerous strategies, documents and promotes best practices for these technologies, implemented in a very pragmatic way using the Spring Framework and its counters. This title Introduces Java EE application design and Spring framework fundamentals Describes a catalog of patterns used across the three tiers of a typical Java EE application Provides implementation details and analyses each pattern with benefits and concerns Describes the application of these patterns in a practical application scenario

\* A proven best-seller by the most recognized Oracle expert in the world. \* The best Oracle book ever written. It defines what Oracle really is, and why it is so powerful. \* Inspired by the thousands of questions Tom has answered on his <http://asktom.oracle.com> site. It tackles the problems that developers and DBAs struggle with every day. \* Provides everything you need to know to program correctly with the database and exploit its feature-set effectively.

Pro Spring updates the perennial bestseller with the latest that the Spring Framework 4 has to offer. Now in its fourth edition, this popular book is by far the most comprehensive and definitive treatment of Spring available. With Pro Spring, you’ll learn Spring basics and core topics, and share the authors’ insights and real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you’ll learn how to leverage the Spring Framework to build the various tiers or parts of an enterprise Java application: transactions, web and presentation tiers, deployment, and much more. A full sample application allows you to apply many of the technologies and techniques covered in this book and see how they work together. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today’s Java programmers and developers. It works with other leading open-source, agile, and lightweight Java technologies such as Hibernate, Groovy, MyBatis, and more. Spring now works with Java EE and JPA 2 as well. After reading this definitive book, you’ll be armed with the power of Spring to build complex Spring applications, top to bottom.

This book addresses issues related to managing data across a distributed database system. It is unique because it covers traditional database theory and current research, explaining the difficulties in providing a unified user interface and global data dictionary. The book gives implementers guidance on hiding discrepancies across systems and creating the illusion of a single repository for users. It also includes three sample frameworks—implemented using J2SE with JMS, J2EE, and Microsoft .Net—that readers can use to learn how to implement a distributed database management system. IT and development groups and computer sciences/software engineering graduates will find this guide invaluable.

What is this book about? Expert One-on-One J2EE Development without EJB shows Javadevelopers and architects how to build robust J2EE applicationswithout having to use Enterprise JavaBeans (EJB). This practical,code-intensive guide provides best practices for using simpler andmore effective methods and tools, including JavaServer pages,Servlets, and lightweight frameworks. What does this book cover? The book begins by examining the limits of EJB technology— what it does well and not so well. Then the authors guideyou through alternatives to EJB that you can use to create higherquality applications faster and at lower cost — both agilemethods as well as new classes of tools that have evolved over thepast few years. They then dive into the details, showing solutions based on thelightweight framework they pioneered on SourceForge — one ofthe most innovative open source communities. They demonstrate howto leverage practical techniques and tools, including the popularopen source Spring Framework and Hibernate. This book also guidesyou through productive solutions to core problems, such astransaction management, persistence, remoting, and Web tier design.You will examine how these alternatives affect testing,performance, and scalability, and discover how lightweightarchitectures can slash time and effort on many projects. What will you learn from this book? Here are some details on what you’ll find in this book: How to find the simplest and most maintainable architecture foryour application Effective transaction management without EJB How to solve common problems in enterprise software developmentusing AOP and Inversion of Control Web tier design and the place of the Web tier in awell-designed J2EE application Effective data access techniques for J2EE applications withJDBC, Hibernate, and JDO How to leverage open source products to improve productivityand reduce custom coding How to design for optimal performance and scalability

Get ready to take your applications to the next level by harnessing all of Visual Basic 2005’s tools for programming, debugging, and refactoring code. In this hands-on book, you’ll get proven techniques for developing even the most complex Visual Basic applications. Expert tips on modeling, user interface design, and testing will help you master the advanced features of this language. You’ll learn how to make writing code more effective so that you can quickly develop and maintain your own amazingly powerful applications.

\*Readers will witness a real application being built with Spring framework, which is a very hot topic. \*Aspect Oriented Programming (AOP) is most up to date at time of book’s release; AOP is a hot topic right now. \*Will be endorsed by Open Source Spring Framework founder and head, Rod Johnson (plus a Foreword, name on cover, and/or possible Spring logo).

What is this book about? With the release of PHP 5 and the Zend Engine 2, PHP finally graduates from it earliest days as a lightweight scripting syntax to an powerful object oriented programming language that can hold its own against the Java and .NET architectures that currently dominate corporate software development. This book has a pragmatic focus on how to use PHP in the larger scheme of enterprise-class software development. What does this book cover? Unlike Java or .NET, there is little discussion of the application of design patterns, component architectures, and best-practices to the development of applications using PHP. Software written in the absence of this sort of higher-order architecture will never be able to match the robust frameworks that Java and .NET ship with out of the box. This book addresses this issue by covering the following material: Part 1 discusses the OO concepts that were initially explored in

Beginning PHP 5 and a demonstration of how to implement them in PHP 5. This section also covers UML modeling and provides a brief introduction to project management techniques that are covered in more depth in Part 4. Parts 2 and 3 present objects and object hierarchies that, when completed, comprise a robust toolkit that developers will be able to reuse on future projects. These chapters are designed to arm the professional PHP developer with the sort of constructs that are available out of the box with platforms such as Java and .NET — from simple utility classes like Collection and Iterator, to more complex constructs like Model/View/Controller architectures and state machines. Part 4 shows how to use the toolkit from Parts 2 and 3 to create real-world applications. We look at the development of a robust contact management system that will leverage the componentry and concepts already discussed and introduce project management and software architecture concepts that enable developers to accurately identify business requirements, design scalable, extensible platforms, and handle change management effectively. It covers the waterfall and spiral project management paradigms and include a discussion on eXtreme Programming and other approaches to software development. The Appendices include an extended discussion on the effective use of CVS, introduce the Zend Studio IDE and related tools, and discuss performance tuning and scalability.

Master Spring basics and core topics, and share the authors' insights and real-world experiences with remoting, Hibernate, and EJB. Beyond the basics, you'll learn how to leverage the Spring Framework to build the various tiers and parts of an enterprise Java application: transactions, web and presentation tiers, deployment, and much more. A full sample application allows you to apply many of the technologies and techniques covered in Pro Spring 5 and see how they work together. This book updates the perennial bestseller with the latest that the new Spring Framework 5 has to offer. Now in its fifth edition, this popular title is by far the most comprehensive and definitive treatment of Spring available. It covers the new functional web framework and interoperability with Java 9. After reading this definitive book, you'll be armed with the power of Spring to build complex Spring applications, top to bottom. The agile, lightweight, open-source Spring Framework continues to be the de facto leading enterprise Java application development framework for today's Java programmers and developers. It works with other leading open-source, agile, and lightweight Java technologies such as Hibernate, Groovy, MyBatis, and more. Spring now works with Java EE and JPA 2 as well. What You'll Learn Discover what's new in Spring Framework 5 Use the Spring Framework with Java 9 Master data access and transactions Work with the new functional web framework Create microservices and other web services Who This Book Is For Experienced Java and enterprise Java developers and programmers. Some experience with Spring highly recommended.

Spring in Action introduces you to the ideas behind Spring and then quickly launches into a hands-on exploration of the framework. Combining short code snippets and an ongoing example developed throughout the book, it shows you how to build simple and efficient J2EE applications. You will see how to solve persistence problems using the leading open-source tools, and also how to integrate your application with the most popular web frameworks. You will learn how to use Spring to manage the bulk of your infrastructure code so you can focus on what really matters your critical business needs. Spring in Action has been completely updated to cover the exciting new features of Spring 2.0. The book begins by introducing you to the core concepts of Spring and then quickly launches into a hands-on exploration of the framework. Part 1 - Spring Essentials Part 2 - Spring in the Business Layer Part 3 - Spring in the Web Layer

The 2014 International Conference on Biotechnology, Agriculture, Environment and Energy (ICBAEE 2014) was held May 22-23, 2014 in Beijing, China. The objective of ICBAEE 2014 was to provide a platform for researchers, engineers, academics as well as industry professionals from all over the world to present their research results and development act

This book covers the full development life cycle for professional GUI design in Java, from cost estimation and design to coding and testing. Focuses on building high quality industrial strength software in Java Ready-to-use source code is given throughout the text based on industrial-strength projects undertaken by the author.

JUnit in Action, Third Edition has been completely rewritten for this release. The book is full of examples that demonstrate JUnit's modern features, including its new architecture; nested, tagged, and dynamic tests; and dependency injection. Summary JUnit is the gold standard for unit testing Java applications. Filled with powerful new features designed to automate software testing, JUnit 5 boosts your productivity and helps avoid debugging nightmares. Whether you're just starting with JUnit or you want to ramp up on the new features, JUnit in Action, Third Edition has you covered. Extensively revised with new code and new chapters, JUnit in Action, Third Edition is an up-to-date guide to smooth software testing. Dozens of hands-on examples illustrate JUnit 5's innovations for dependency injection, nested testing, parameterized tests, and more. Throughout, you'll learn how to use JUnit 5 to automate your testing, for a process that consumes less resources, and gives you more time for developing. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology The JUnit framework is the gold standard for unit testing Java applications—and knowing it is an essential skill for Java developers. The latest version, JUnit 5, is a total overhaul, now supporting modern Java features like Lambdas and Streams. About the book JUnit in Action, Third Edition has been completely rewritten for this release. The book is full of examples that demonstrate JUnit's modern features, including its new architecture; nested, tagged, and dynamic tests; and dependency injection. You'll benefit from author Catalin Tudose's unique "pyramid" testing strategy, which breaks the testing process into layers and sets you on the path to bug-free code creation. What's inside Migrating from JUnit 4 to 5 Effective test automation Test-driven development and behavior-driven development Using mocks for test isolation Connecting JUnit 5 with Maven or Gradle About the reader For intermediate Java developers. About the author Catalin Tudose has a Ph.D. in Computer Science, and over 15 years of experience as a Senior Java Developer and Technical Team Lead. Previous editions were authored by Petar Tahchiev, Felipe Leme, Gary Gregory, and Vincent Massol. Table of Contents PART 1 - JUNIT 1 JUnit jump-start 2 Exploring core JUnit 3 JUnit architecture 4 Migrating from JUnit 4 to JUnit 5 5 Software testing principles PART 2 - DIFFERENT TESTING STRATEGIES 6 Test quality 7 Coarse-grained testing with stubs 8 Testing with mock objects 9 In-container testing PART 3 - WORKING WITH JUNIT 5 AND OTHER TOOLS 10 Running JUnit tests from Maven 3 11 Running JUnit tests from Gradle 6 12 JUnit 5 IDE support 13 Continuous integration with JUnit 5 PART 4 - WORKING WITH MODERN FRAMEWORKS AND JUNIT 5 14 JUnit 5 extension model 15 Presentation-layer testing 16 Testing Spring applications 17 Testing Spring Boot applications 18 Testing a REST API 19 Testing database applications PART 5 - DEVELOPING APPLICATIONS WITH JUNIT 5 20 Test-driven development with JUnit 5 21 Behavior-driven development in JUnit 5 22 Implementing a test pyramid strategy with JUnit 5

The volume includes a set of selected papers extended and revised from the I2009 Pacific-Asia Conference on Knowledge Engineering and Software Engineering (KESE 2009) was held on December 19~ 20, 2009, Shenzhen, China. Volume 1 is to provide a forum for researchers, educators, engineers, and government officials involved in the general areas of Computer and

Software Engineering to disseminate their latest research results and exchange views on the future research directions of these fields. 140 high-quality papers are included in the volume. Each paper has been peer-reviewed by at least 2 program committee members and selected by the volume editor Prof. Yanwen Wu. On behalf of this volume, we would like to express our sincere appreciation to all of authors and referees for their efforts reviewing the papers. Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering.

The Spring Framework is a major open source application development framework that makes Java/J2EE(TM) development easier and more productive. This book shows you not only what Spring can do but why, explaining its functionality and motivation to help you use all parts of the framework to develop successful applications. You will be guided through all the Spring features and see how they form a coherent whole. In turn, this will help you understand the rationale for Spring's approach, when to use Spring, and how to follow best practices. All this is illustrated with a complete sample application. When you finish the book, you will be well equipped to use Spring effectively in everything from simple Web applications to complex enterprise applications. What you will learn from this book \* The core Inversion of Control container and the concept of Dependency Injection \* Spring's Aspect Oriented Programming (AOP) framework and why AOP is important in J2EE development \* How to use Spring's programmatic and declarative transaction management services effectively \* Ways to access data using Spring's JDBC functionality, iBATIS SQL Maps, Hibernate, and other O/R mapping frameworks \* Spring services for accessing and implementing EJBs \* Spring's remoting framework Who this book is for This book is for Java/J2EE architects and developers who want to gain a deeper knowledge of the Spring Framework and use it effectively. Wrox Professional guides are planned and written by working programmers to meet the real-world needs of programmers, developers, and IT professionals. Focused and relevant, they address the issues technology professionals face every day. They provide examples, practical solutions, and expert education in new technologies, all designed to help programmers do a better job.

A guide to alternatives to EJB covers such topics as managing transactions, designing applications, accessing data, using open source products to increase productivity, and solving problems. \* First book on the market that covers building high-performance Java applications on the Oracle database—using the latest versions of both the Oracle database (10g) and the JDBC API (3.0). \* Promotes and explains an "anti black box" approach to Oracle development complete with benchmark code) that will allow developers to write highly efficient, high performance Oracle JDBC applications. \* A new book from the prestigious OakTable Press, which Apress will be strongly promoting and supporting throughout 2004.

"Changeable and Reconfigurable Manufacturing Systems" discusses key strategies for success in the changing manufacturing environment. Changes can often be anticipated but some go beyond the design range, requiring innovative change enablers and adaptation mechanisms. The book presents the new concept of Changeability as an umbrella framework that encompasses paradigms such as agility, adaptability, flexibility and reconfigurability. It provides the definitions and classification of key terms in this new field, and emphasizes the required physical/hard and logical/soft change enablers. The book presents cutting edge technologies and the latest research, as well as future directions to help manufacturers stay competitive. It contains original contributions and results from senior international experts, together with industrial applications. The book serves as a comprehensive reference for professional engineers, managers, and academics in manufacturing, industrial and mechanical engineering.

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.

Threads are a fundamental part of the Java platform. As multicore processors become the norm, using concurrency effectively becomes essential for building high-performance applications. Java SE 5 and 6 are a huge step forward for the development of concurrent applications, with improvements to the Java Virtual Machine to support high-performance, highly scalable concurrent classes and a rich set of new concurrency building blocks. In Java Concurrency in Practice , the creators of these new facilities explain not only how they work and how to use them, but also the motivation and design patterns behind them. However, developing, testing, and debugging multithreaded programs can still be very difficult; it is all too easy to create concurrent programs that appear to work, but fail when it matters most: in production, under heavy load. Java Concurrency in Practice arms readers with both the theoretical underpinnings and concrete techniques for building reliable, scalable, maintainable concurrent applications. Rather than simply offering an inventory of concurrency APIs and mechanisms, it provides design rules, patterns, and mental models that make it easier to build concurrent programs that are both correct and performant. This book covers: Basic concepts of concurrency and thread safety Techniques for building and composing thread-safe classes Using the concurrency building blocks in java.util.concurrent Performance optimization dos and don'ts Testing concurrent programs Advanced topics such as atomic variables, nonblocking algorithms, and the Java Memory Model

Pro Spring MVC provides in-depth coverage of Spring MVC and Spring Web Flow, two highly customizable and powerful web frameworks brought to you by the developers and community of the Spring Framework. Spring MVC is a modern web application framework built upon the Spring Framework, and Spring Web Flow is a project that complements Spring MVC for building reusable web controller modules that encapsulate rich page navigation rules. Along with detailed analysis of the code and functionality, plus the first published coverage of Spring Web Flow

2.x, this book includes numerous tips and tricks to help you get the most out of Spring MVC, Spring Web Flow, and web development in general. Spring MVC and Spring Web Flow have been upgraded in the new Spring Framework 3.1 and are engineered with important considerations for design patterns and expert object-oriented programming techniques. This book explains not only the design decisions of the frameworks, but also how you can apply similar designs and techniques to your own code. This book takes great care in covering every inch of Spring MVC and Spring Web Flow to give you the complete picture. Along with all the best known features of these frameworks, you'll discover some new hidden treasures. You'll also learn how to correctly and safely extend the frameworks to create customized solutions. This book is for anyone who wishes to write robust, modern, and useful web applications with the Spring Framework.

Software reuse depicts a great vision for the software industry. It has been widely viewed as a promising way to improve both the productivity and quality of software development. However, despite of the successes we have achieved, there are still many issues that have limited the promotion of software reuse in the real world. Therefore, software reuse has remained an important hotspot of research. ICSR is the premier international conference in the field of software reuse. It has been an important venue for presenting advances and improvements within the software reuse domain, and a powerful driving force in promoting the interaction between researchers and practitioners. The theme of ICSR 10 was "High Confidence Software Reuse in Large Systems." A high confidence system is one that behaves in a well-understood and predictable fashion. Today's trends towards widespread use of commercial off-the-shelf (COTS) technology, increased integration, continuous evolution, and larger scale are yielding more complex software systems. So, the problem of how to build high confidence complex systems and how to reuse software with a high level of confidence has become a new attractive topic for research. Furthermore, high-level software asset reuse has been a goal for the last 20–30 years, and it can still be considered an unsolved question. Components-based development, MDA-MDE-MDD, extreme programming, and other techniques or methods are promising approaches to software reuse that still need more research. These proceedings report on the current state of the art in software reuse.

Discover the real power of Spring Framework 5.0 and learn to create powerful applications in its newest version Key Features Learn reactive programming by implementing a reactive application with Spring Webflux Create a robust and scalable messaging application with Spring messaging support Apply your knowledge to build three real-world projects in Spring Book Description With growing demands, organizations are looking for systems that are robust and scalable. Therefore, the Spring Framework has become the most popular framework for Java development. It not only simplifies software development but also improves developer productivity. This book covers effective ways to develop robust applications in Java using Spring. The book has three parts, where each one covers the building of a comprehensive project in Java and Spring. In the first part, you will construct a CMS Portal using Spring's support for building REST APIs. You will also learn to integrate these APIs with AngularJS and later develop this application in a reactive fashion using Project Reactor, Spring WebFlux, and Spring Data. In the second part, you'll understand how to build a messaging application, which will consume the Twitter API and perform filtering and transformations. Here, you will also learn about server-sent events and explore Spring's support for Kotlin, which makes application development quick and efficient. In the last part, you will build a real microservice application using the most important techniques and patterns such as service discovery, circuit breakers, security, data streams, monitoring, and a lot more from this architectural style. By the end of the book, you will be confident about using Spring to build your applications. What you will learn Implement REST APIs with Spring REST support Introduce the Spring Boot and understand how it makes creating robust applications extremely simple Understand how Spring Data helps us add persistence in MongoDB and SQL databases Introduce Reactive Programming and use this with Spring Webflux Implement a Reactive REST client and learn how it can create asynchronous applications Create a robust, scalable, and fault tolerant application with Spring Messaging Implement a websocket to add interactive behaviors in your applications Introduce the Spring Cloud projects Who this book is for If you're a developer starting out with Spring, then this book will help you learn about the new Spring 5.0 framework concepts followed by their implementation in Java and Kotlin. The book will also help experienced Spring developers gain insights into the new features added in Spring 5.0.

The J2EE developer's practical introduction and cookbook to cost saving software engineering solutions.

Pro Spring 2 is the perfect, simple answer for your lightweight, alternative Java EE development needs! Put simply, this book brings J2EE/Java EE "down to earth." Without the hassles of using the EJB 3 specification and similar, you can build lighter, better-performing agile enterprise Java-based applications using Spring Framework 2. The Spring framework can also integrate other noteworthy and hot open source tools like Apache Struts, Hibernate, OpenJPA, GlassFish, and many more. You'll work through a real, scalable enterprise application and build it from the ground up with Spring, using all the multiple web views and frameworks.

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

\* 1st and only book to market on the open source Spring MVC and Web Flows, positioned to become the new "Struts." \* Will be the only authoritative solution, by the Spring MVC and Spring Web Flows project leads themselves. \* Two markets for this book. 1) Ex-patriots from the Struts world who have developed numerous web applications, but are looking for more and willing to take the initiative to experiment with new solutions; and 2) early adopter web developers into Web Flow, which has created a lot of buzz and will generate interest around this book as well as Spring MVC.

Apache Tomcat is the most popular open-source de-facto Java Web application server, standard for today's Web developers using JSP/Servlets. Apache Tomcat 7 covers details on installation and administration of Apache Tomcat 7. It explains key parts of the Tomcat architecture, and provides an introduction to Java Servlet and JSP APIs in the context of the Apache Tomcat server. In addition to basic concepts and administration tasks, Apache Tomcat 7 covers some of the most frequently used advanced features of Tomcat, including security, Apache web server integration, load balancing, and embedding Tomcat server in Java applications. Finally, through a practical primer, it shows how to integrate and use some of the most popular Java technologies with Apache Tomcat. In summary, Apache Tomcat 7 offers both novice and intermediate Apache Tomcat users a practical and comprehensive guide to this powerful software.

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