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Practical API Design Apress

You might think more than enough design books exist in the programming world already. In fact, there are so many that it makes sense to ask why you would read yet another. Is there really a need for yet another design book? In fact, there is a greater need than ever before, and Practical API Design: Confessions of a Java Framework Architect fills that need! Teaches you how to write an API that will stand the test of time Written by the designer of the NetBeans API at Sun Technologies Based on best practices, scalability, and API design patterns

Secrets of the Rock Star Programmers: Riding the IT Crest Packt Publishing Ltd

A practical guide for building effective enterprise solutions with Java EE 8 Key Features Recipes to get you up-and-running with Java EE 8 application development Learn how to apply the major Java EE 8 APIs and specifications Implement microservices and Reactive programming with Java EE 8 Book Description Java EE is a collection of technologies and APIs to support Enterprise Application development. The choice of what to use and when can be dauntingly complex for any developer. This book will help you master this. Packed with easy to follow recipes, this is your guide to becoming productive with Java EE 8. You will begin by seeing the latest features of Java EE 8, including major Java EE 8 APIs and specifications such as JSF 2.3, and CDI 2.0, and what they mean for you. You will use the new features of Java EE 8 to implement web-based services for your client applications. You will then learn to process the Model and Streaming APIs using JSON-P and JSON-B and will learn to use the Java Lambdas support offered in JSON-P. There are more recipes to fine-tune your RESTful development, and you will learn about the Reactive enhancements offered by the JAX-RS 2.1 specification. Later on, you will learn about the role of multithreading in your enterprise applications and how to integrate them for transaction handling. This is followed by implementing microservices with Java EE and the advancements made by Java EE for cloud computing. The final set of recipes shows you how take advantage of the latest security features and authenticate your enterprise application. At the end of the book, the Appendix shows you how knowledge sharing can change your career and your life. What you will learn Actionable information on the new features of Java EE 8 Using the most important APIs with real and working code Building server side applications, web services, and web applications Deploying and managing your application using the most important Java EE servers Building and deploying microservices using Java EE 8 Building Reactive application by joining Java EE APIs and core Java features Moving your application to the cloud using containers Practical ways to improve your projects and career through community involvement Who this book is for This book is for developers who want to become proficient with Java EE 8 for their enterprise application development. Basic knowledge of Java is assumed

The End and the Beginning Apress

This book aims serving students, developers, technical leads and professionals who wish to learn server side, enterprise application development, using Java EE 6. This book explores Java EE 6 and systematically illustrates its various specifications with plenty of real world examples with complete code spec and diagrams to make it easier to follow. Whether you are a beginner or an experienced Enterprise developer, you should find this book, a valuable and accessible knowledge base for creating Enterprise solutions. Topics Covered in the Book Java EE Introduction To Java and Java EE, Java EE 6 Architecture, Setting Up NetBeans IDE 6.8 Java Servlets 3.0 Introduction, Servlet API And Lifecycle, Working With Servlets, Working With Databases, Cookies, Session, Filters, Request Dispatcher, Annotations, HttpOnly Cookies JavaServer Pages 2.1 Introduction, Getting Started, Action Elements, Implicit Objects, Scope, Expression Language, JSP Standard Tag Libraries

[JavaServer Faces 2.0 Introduction, Getting Started, JSF Components, Managed Beans, Navigation, Converters and Validators, Facelets Enterprise JavaBeans 3.1 Introduction, Getting Started, Session Beans - Stateless/Stateful/Singleton, Message Driven Beans, Interceptors, Asynchronous Invocation, Calendar Based Timer Services, No-Interface View Advanced Topics Web Services, JavaMail, JNDI, Enterprise Application Development, Listener, Java Transaction API](#)

Real World Java EE Patterns Oxford University Press

"Java Enterprise isn't one of the easiest platforms to work with, especially when it comes with a number of different confusing paradigms and jargon - JDBC, JTA, JAX, MVC, Hibernate, and so on, to name a few. Add other technologies such as MySQL and Struts, and you're bound to leave someone more confused than when they started. Common courses often leave the user with the basics, such as creating a simple application and you are okay. You can follow along with the instructor and finish the project and then replicate it, but the moment you are asked to modify the application for real-world use you won't know what to do. How do you fix the errors or even know what the pop up error means? This is why we have designed this comprehensive course. The main aim of this Java EE tutorial is to help you gain real-world practical application knowledge of Java Enterprise. This course will show you exactly how to deviate from the theory to actually learning how to start building your own applications. Using a project-based approach, you'll not only follow the instructor, but you'll also learn why and how, in addition to simply what. Before we delve into the course details further, let's take a quick look at what Java Enterprise actually is. Java Enterprise is a set of specifications that extend the Java SE platform and allow developers to build scalable applications that can handle transactions, security, concurrency, and so on."--Resource description page.

Java EE 8 Cookbook Apress

Written in a tutorial style, this is a beginning programming book. It is divided into four main parts, progressively taking the programmer through more difficult programming. It contains numerous examples and concepts are introduced with interesting real-world programs.

Code Packt Publishing Ltd

Nine revolutionary algorithms that power our computers and smartphones Every day, we use our computers to perform remarkable feats. A simple web search picks out a handful of relevant needles from the world's biggest haystack. Uploading a photo to Facebook transmits millions of pieces of information over numerous error-prone network links, yet somehow a perfect copy of the photo arrives intact. Without even knowing it, we use public-key cryptography to transmit secret information like credit card numbers, and we use digital signatures to verify the identity of the websites we visit. How do our computers perform these tasks with such ease? John MacCormick answers this question in language anyone can understand, using vivid examples to explain the fundamental tricks behind nine computer algorithms that power our PCs, tablets, and smartphones.

Java Performance: The Definitive Guide IBM Redbooks

Many bookstores offer numerous choices of books on Java Server Programming; however, most of these books are intricate and complex to grasp. So, what are your chances of picking up the right one? If this question has been troubling you, be rest assured now! This book, Java Server Programming: Java EE 5 (J2EE 1.5) Black Book, Platinum Edition, is a one-time reference book that covers all aspects of Java EE in an easy-to-understand approach for example, how an application server runs; how GlassFish Application server deploys a Java application; a complete know-how of design patterns, best practices, and design strategies; working with Java related technologies such as NetBeans IDE 6.0, Hibernate, Spring, and Seam frameworks; and proven solutions using the key Java EE technologies, such as JDBC, Servlets, JSP, JSTL, RMI, JNDI, JavaMail, Web services, JCA, Struts, JSF, UML, and much more& All this, as the book explores these concepts with appropriate examples and executable applications no doubt, every aspect of the book is worth its price.

The Definitive Guide to JSF in Java EE 8 Princeton University Press

The surprisingly successful book *Real World Java EE Patterns-Rethinking Best Practices* [press.adambien.com] discusses the rethinking of legacy J2EE patterns. Now, *Real World Java EE Night Hacks* walks you through the Java EE 6 best practices and patterns used to create a real world application called "x-ray." X-ray is a high-performance blog statistics application built with nothing but vanilla Java EE 6 leveraging the synergies between the JAX-RS, EJB 3.1, JPA 2, and CDI 1.0 APIs. Foreword by James Gosling, Father of Java

[Projects in Enterprise Java](#) Springer

Get more out of your legacy systems: more performance, functionality, reliability, and manageability Is your code easy to change? Can you get nearly instantaneous feedback when you do change it? Do you understand it? If the answer to any of these questions is no, you have legacy code, and it is draining time and money away from your development efforts. In this book, Michael Feathers offers start-to-finish strategies for working more effectively with large, untested legacy code bases. This book draws on material Michael created for his renowned Object Mentor seminars: techniques Michael has used in mentoring to help hundreds of developers, technical managers, and testers bring their legacy systems under control. The topics covered include Understanding the mechanics of software change: adding features, fixing bugs, improving design, optimizing performance Getting legacy code into a test harness Writing tests that protect you against introducing new problems Techniques that can be used with any language or platform—with examples in Java, C++, C, and C# Accurately identifying where code changes need to be made Coping with legacy systems that aren't object-oriented Handling applications that don't seem to have any structure This book also includes a catalog of twenty-four dependency-breaking techniques that help you work with program elements in isolation and make safer changes.

Pro Java EE 5 Performance Management and Optimization MIT Press

Summary Java's much-awaited "Project Jigsaw" is finally here! Java 11 includes a built-in modularity framework, and The Java Module System is your guide to discovering it. In this new book, you'll learn how the module system improves reliability and maintainability, and how it can be used to reduce tight coupling of system components. Foreword by Kevlin Henney. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. You'll find registration instructions inside the print book. About the Technology Packaging code into neat, well-defined units makes it easier to deliver safe and reliable applications. The Java Platform Module System is a language standard for creating these units. With modules, you can closely control how JARs interact and easily identify any missing dependencies at startup. This shift in design is so fundamental that starting with Java 9, all core Java APIs are distributed as modules, and libraries, frameworks, and applications will benefit from doing the same. About the Book The Java Module System is your in-depth guide to creating and using Java modules. With detailed examples and easy-to-understand diagrams, you'll learn the anatomy of a modular Java application. Along the way, you'll master best practices for designing with modules, debugging your modular app, and deploying to production. What's inside The anatomy of a modular Java app Building modules from source to JAR Migrating to modular Java Decoupling dependencies and refining APIs Handling reflection and versioning Customizing runtime images Updated for Java 11 About the Reader Perfect for developers with some Java experience. About the Author Nicolai Parlog is a developer, author, speaker, and trainer. His home is codefx.org. Table of Contents PART 1 - Hello, modules First piece of the puzzle Anatomy of a modular application Defining modules and their properties Building modules from source to JAR Running and debugging modular applications PART 2 - Adapting real-world projects Compatibility challenges when moving to Java 9 or later Recurring challenges when running on Java 9 or later Incremental modularization of existing projects Migration and modularization strategies PART 3 - Advanced module system features Using services to decouple modules Refining dependencies and APIs Reflection in a modular world Module versions: What's possible and what's not Customizing runtime images with jlink Putting the pieces together

[Professional Java for Web Applications](#) Packt Publishing Ltd

Master Java EE Application Development on Oracle Java Cloud Build highly available, scalable, secure, distributed applications on Oracle Java Cloud. In this Oracle Press guide, Oracle ACE Director and Java Champion Harshad Oak leads you through the entire Java EE cloud-based application lifecycle—from development to deployment. Filled with real-world examples, ready-to-use code, and best practices, *Java EE Applications on Oracle Java Cloud* is an invaluable resource for anyone looking to meet the growing demand for cloud-based development skills. Set up an Oracle Java Cloud instance and manage users and roles Build an application with NetBeans IDE and deploy it on Oracle Java Cloud Extend application functionality using servlets, filters, and listeners Streamline application development with JavaServer Pages, JSP Standard Tag Library, and expression language Create and deploy feature-rich JavaServer Faces applications on Oracle Java Cloud Use Enterprise JavaBeans to effectively run business logic code in enterprise applications Develop and deploy SOAP and RESTful web services on Oracle Java Cloud Take advantage of the persistence capabilities of Oracle Java Cloud via Oracle Database Cloud Code examples from the book are available for download.

Jakarta EE Cookbook Dreamtech Press

This pragmatic book offers the real world knowledge you need to develop lean and maintainable Java EE 5 / 6 applications. *Real World Java EE Patterns - Rethinking Best Practices* guides you to efficient patterns and best practices in a structured way, with code from real world projects. This book includes coverage of: An introduction into the core principles and APIs of Java EE 6 (EJB, JPA, JMS, JCA, JTA, DI, Convention Over Configuration, REST), Principles of transactions, Isolation Levels, remoting in Java EE 6 context, Discussion of superfluous patterns and outdated best practices like DAOs, Business Delegates, DTOs, extensive layering, indirections, Patterns for integration of asynchronous, legacy, or incompatible resources, Infrastructural patterns for eager-starting of services, thread tracking, pre-condition checks, Java EE 6 lookups or integration of third-party Dependency Injection frameworks like Guice, Fully functional JCA implementation with source code, EJB 2 - EJB 3 migration strategies

Real World Java Ee Night Hacks Dissecting the Business Tier Lulu.com

Why are some parts of the world so rich and others so poor? Why did the Industrial Revolution--and the unprecedented economic growth that came with it--occur in eighteenth-century England, and not at some other time, or in some other place? Why didn't industrialization make the whole world rich--and why did it make large parts of the world even poorer? In *A Farewell to Alms*, Gregory Clark tackles these profound questions and suggests a new and provocative way in which culture--not exploitation, geography, or resources--explains the wealth, and the poverty, of nations. Countering the prevailing theory that the Industrial Revolution was sparked by the sudden development of stable political, legal, and economic institutions in seventeenth-century Europe, Clark shows that such institutions existed long before industrialization. He argues instead that these institutions gradually led to deep cultural changes by encouraging people to abandon hunter-gatherer instincts--violence, impatience, and economy of effort--and adopt economic habits--hard work, rationality, and education. The problem, Clark says, is that only societies that have long histories of settlement and security seem to develop the cultural characteristics and effective workforces that enable economic growth. For the many societies that have not enjoyed long periods of stability, industrialization has not been a blessing. Clark also dissects the notion, championed by Jared Diamond in *Guns, Germs,*

and *Steel*, that natural endowments such as geography account for differences in the wealth of nations. A brilliant and sobering challenge to the idea that poor societies can be economically developed through outside intervention, *A Farewell to Alms* may change the way global economic history is understood.

Jboss Weld CDI for Java Platform Simple Programmer, LLC

This illustrated book teaches kids to write computer programs. Kids will learn basics of programming while creating such computer games as Tic-Tac-Toe, Ping-Pong and others. This book can be useful for three categories of people: kids from 10 to 18 years old, school computer teachers, parents who want to teach their kids programming.

[Java Server Programming Java Ee5 Black Book, Platinum Ed \(With Cd\)](#) Berrett-Koehler Publishers

This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The *Data Science Design Manual* is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show "The Quant Shop" (www.quant-shop.com)

Tcl/Tk in a Nutshell Addison-Wesley

Across numerous vertical industries, enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa, simplify management and expansion of the external communities, accommodate customer and supplier preferences, govern the flow of information, enforce policy and standards, and protect sensitive information. Throughout this process, external partners must be on-boarded and off-boarded, information must flow across multiple communications infrastructures, and data must be mapped and transformed for consumption across multiple applications. Some transactions require synchronous or real-time processing while others are of a more periodic nature. For some classes of customer or supplier, the enterprise might prefer a locally-managed, on-premise solution. For some types of communities (often small businesses), an as-a-Service solution might be the best option. Many large enterprises combine the on-premise and as-a-Service approach to serve different categories of business partners (customers or suppliers). This IBM® Redbooks® publication focuses on solutions for end-to-end integration in complex value chains and presents several end-to-end common integration scenarios with IBM Sterling and IBM WebSphere® portfolios. We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution architecture involving IBM Sterling and IBM WebSphere portfolios.

Working Effectively with Legacy Code dpunkt.verlag

This textbook is designed for use in a two-course introduction to computer science.

Workshop Java EE 7 Packt Publishing Ltd

The comprehensive Wrox guide for creating Java web applications for the enterprise This guide shows Java software developers and software engineers how to build complex web applications in an enterprise environment. You'll begin with an introduction to the Java Enterprise Edition and the basic web application, then set up a development application server environment, learn about the tools used in the development process, and explore numerous Java technologies and practices. The book covers industry-standard tools and technologies, specific technologies, and underlying programming concepts. Java is an essential programming language used worldwide for both Android app development and enterprise-level corporate solutions As a step-by-step guide or a general reference, this book provides an all-in-one Java development solution Explains Java Enterprise Edition 7 and the basic web application, how to set up a development application server environment, which tools are needed during the development process, and how to apply various Java technologies Covers new language features in Java 8, such as Lambda Expressions, and the new Java 8 Date & Time API introduced as part of JSR 310, replacing the legacy Date and Calendar APIs Demonstrates the new, fully-duplex WebSocket web connection technology and its support in Java EE 7, allowing the reader to create rich, truly interactive web applications that can push updated data to the client automatically Instructs the reader in the configuration and use of Log4j 2.0, Spring Framework 4 (including Spring Web MVC), Hibernate Validator, RabbitMQ, Hibernate ORM, Spring Data, Hibernate Search, and Spring Security Covers application logging, JSR 340 Servlet API 3.1, JSR 245 JavaServer Pages (JSP) 2.3 (including custom tag libraries), JSR 341 Expression Language 3.0, JSR 356 WebSocket API 1.0, JSR 303/349 Bean Validation 1.1, JSR 317/338 Java Persistence API (JPA) 2.1, full-text searching with JPA, RESTful and SOAP web services, Advanced Message Queuing Protocol (AMQP), and OAuth Professional Java for Web Applications is the complete Wrox guide for software developers who are familiar with Java and who are ready to build high-level enterprise Java web applications.

Pro Java EE Spring Patterns Apress

Learn the fundamentals of Java EE 8 APIs to build effective web services Key Features Design modern and stylish web services with Java EE APIs Secure your web services with JSON Web Tokens Explore the advanced concepts of RESTful web services and the JAX-RS API Book Description Java Enterprise Edition is one of the leading application programming platforms for enterprise Java development. With Java EE 8 finally released and the first application servers now available, it is time to take a closer look at how to develop modern and lightweight web services with the latest API additions and improvements. Building RESTful Web Services with Java EE 8 is a comprehensive guide that will show you how to develop state-of-the-art RESTful web services with the latest Java EE 8 APIs. You will begin with an overview of Java EE 8 and the latest API additions and improvements. You will then delve into the details of implementing synchronous RESTful web services and clients with JAX-RS. Next up, you will learn about the specifics of data binding and content marshalling using the JSON-B 1.0 and JSON-P 1.1 APIs. This book also guides you in leveraging the power of asynchronous APIs on the server and client side, and you will learn to use server-sent events (SSEs) for push communication. The final section covers advanced web service topics such as validation, JWT security, and diagnosability. By the end of this book, you will have implemented several working web services and have a thorough understanding of the Java EE 8 APIs required for lightweight web service development. What you will learn Dive into the latest Java EE 8 APIs relevant for developing web services Use the new JSON-B APIs for easy data binding Understand how JSON-P API can be used

for flexible processing Implement synchronous and asynchronous JAX-RS clients Use server-sent events to implement server-side code Secure Java EE 8 web services with JSON Web Tokens Who this book is for If you're a Java developer who wants to learn how to implement web services using the latest Java EE 8 APIs, this book is for you. Though no prior knowledge of Java EE 8 is required, experience with a previous Java EE version will be beneficial.

Nine Algorithms That Changed the Future Packt Publishing Ltd

Dieses Arbeitsbuch bietet Ihnen eine praktische Einführung in die Entwicklung von Business-Anwendungen mit Java EE 7. Schrittweise erstellen Sie eine einfach nachvollziehbare Beispielanwendung auf Grundlage des Web Profile. Dabei lernen Sie alle wichtigen Technologien und Konzepte von Java EE 7 kennen, u.a.: - Grafische Oberflächen mit JavaServer Faces und HTML5 -

Business-Logik mit CDI und EJB - Persistenz mit JPA - Kommunikation mit REST, SOAP und WebSockets - Erweiterte Konzepte wie Resource Library Contracts, Interceptors, Transaktionen, Timer und Security Über Java EE 7 hinaus wird auch auf weitere praxisrelevante Themen wie Build-Management und Testing eingegangen. Das Deployment wird auf den Applikationsservern WildFly 8 und Glassfish 4 sowie über das Cloud-Angebot Openshift durchgeführt. Am Ende einer jeden Entwicklungsphase finden Sie Übungen und Fragen zur Lernkontrolle. Nach der erfolgreichen Lektüre sind Sie in der Lage, Java-EE-7-Anwendungen selbständig aufzusetzen, zu entwickeln und auf einem Anwendungsserver zu verteilen. Kenntnisse in der Entwicklung mit Java werden vorausgesetzt. Grundlagen von HTML und der Architektur von Webanwendungen sind hilfreich. In der 2. Auflage wird nun auch die Internationalisierung sowie die Erstellung funktionaler Tests mit Graphene behandelt.

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