JAVA
PERSISTENCE
WITH
HIBERNATE

SECOND EDITION

Christian Bauer
Gavin King
Gary Gregory

FOREWORD BY Linda DeMichiel

[Java Persistence With Hibernate Second Edition](#)

Marcel A. Müller

Java Persistence With Hibernate Second Edition:

Java Persistence with Hibernate Gary Gregory,Christian Bauer,2015-10-27 Summary Java Persistence with Hibernate Second Edition explores Hibernate by developing an application that ties together hundreds of individual examples In this revised edition authors Christian Bauer Gavin King and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2 1 standard JSR 338 All examples have been updated for the latest Hibernate and Java EE specification versions About the Technology Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications Persistence the ability of data to outlive an instance of a program is central to modern applications Hibernate the most popular Java persistence tool offers automatic and transparent object relational mapping making it a snap to work with SQL databases in Java applications About the Book Java Persistence with Hibernate Second Edition explores Hibernate by developing an application that ties together hundreds of individual examples You ll immediately dig into the rich programming model of Hibernate working through mappings queries fetching strategies transactions conversations caching and more Along the way you ll find a well illustrated discussion of best practices in database design and optimization techniques In this revised edition authors Christian Bauer Gavin King and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2 1 standard JSR 338 All examples have been updated for the latest Hibernate and Java EE specification versions What s Inside Object relational mapping concepts Efficient database application design Comprehensive Hibernate and Java Persistence reference Integration of Java Persistence with EJB CDI JSF and JAX RS Unmatched breadth and depth About the Reader The book assumes a working knowledge of Java About the Authors Christian Bauer is a member of the Hibernate developer team and a trainer and consultant Gavin King is the founder of the Hibernate project and a member of the Java Persistence expert group JSR 220 Gary Gregory is a principal software engineer working on application servers and legacy integration Table of Contents PART 1 GETTING STARTED WITH ORM Understanding object relational persistence Starting a project Domain models and metadata PART 2 MAPPING STRATEGIES Mapping persistent classes Mapping value types Mapping inheritance Mapping collections and entity associations Advanced entity association mappings Complex and legacy schemas PART 3 TRANSACTIONAL DATA PROCESSING Managing data Transactions and concurrency Fetch plans strategies and profiles Filtering data PART 4 WRITING QUERIES Creating and executing queries The query languages Advanced query options Customizing SQL   *Java Persistence with Hibernate, Second Edition* Gary Gregory,Christian Bauer,2015 Java Persistence with Hibernate Second Edition explores Hibernate by developing an application that ties together hundreds of individual examples You ll immediately dig into the rich programming model of Hibernate working through mappings queries fetching strategies transactions conversations caching and more Along the way you ll find a well illustrated discussion of best practices in database design and optimization techniques In this revised edition authors Christian Bauer Gavin King and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2 1 standard JSR 338 All

examples have been updated for the latest Hibernate and Java EE specification versions **Java Persistence with Spring Data and Hibernate** Catalin Tudose,Christian Bauer (Computer scientist),Gavin King,2023-02-28 Java Persistence with Spring Data and Hibernate teaches you the ins and outs of Java persistence with hands on examples using Spring Data JPA and Hibernate The book carefully analyzes the capabilities of the major Java persistence tools and guides you through the most common use cases By comparing and contrasting the alternatives you ll find it easy to choose the right tool choice for your applications You ll learn how to make and utilize mapping strategies about the different approach to transactions for both Hibernate and Spring Data and even how to efficiently test Java persistence applications The practical techniques are demonstrated with both relational and non relational databases **Spring Persistence with Hibernate** Paul Fisher,Brian D. Murphy,2011-02-01 Persistence is an important set of techniques and technologies for accessing and transacting 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 Spring framework is the leading out of the box solution for enterprise Java developers in it you can find a number of Java Persistence solutions This book gets you rolling with fundamental Spring Framework 3 concepts and integrating persistence functionality into enterprise Java applications using Hibernate the JavaTM Persistence API JPA 2 and the Grails Object Relational Mapping tool GORM Covers core Hibernate fundamentals demonstrating how the framework can be best utilized within a Spring application context Covers how to use and integrate JPA 2 found in the new Java EE 6 platform Covers how to integrate and use the new Grails persistence engine GORM **Spring Security in Action, Second Edition** Laurentiu Spilca,2024-05-14 Design and develop Spring applications that are secure right from the start In Spring Security in Action Second Edition you will learn essential security skills including how to Implement and customize authentication and authorization Set up all components of an OAuth 2 OpenID Connect system Utilize CRSF and CORS configurations Secure Spring reactive applications Write tests for security configurations About the technology Spring Security is essential for any Java developer looking to master authentication and authorization in Spring apps By adopting secure by design principles with Spring Security s out of the box features you can protect your apps from data theft and unauthorized intrusions **Spring Persistence with Hibernate** Paul Fisher,Brian D. Murphy,2016-05-31 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 solutionfor 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 **Servlet & JSP: A Tutorial, Second Edition** Budi Kurniawan,2015-10-15 Servlet and JavaServer Pages JSP are the underlying technologies for developing web applications in Java They are essential for any programmer to master in order to effectively use frameworks such as JavaServer Faces Struts 2 or Spring MVC Covering Servlet 3 1 and JSP 2 3 this book explains the important programming concepts and design models in Java web development as well as related technologies and new features in the latest versions of Servlet and JSP With comprehensive coverage and a lot of examples this book is a guide to building real world applications **Struts 2 Black Book (Second Edition) w/CD** Kogent Solutions Inc.,2008-07 Struts 2 Black Book brings to you a detailed discussion on Web application development by using Struts 2 Framework Targeting beginner to advance level readers this book begins with an introduction to Struts 2 and describes its evolutions as a new Web Application Framework It covers various concepts supported by Struts 2 such as Interceptors Results Validators Generic and UI Tags and Plugins The book also describes the benefits of these concepts and different ways of implementing them In addition the book discusses various components created and configured in Struts 2 Framework based web application The book also covers the architecture and implementation changed in Struts 2 from Struts 1 The book describes the process of migrating a Struts 1 application to a Struts 2 based application and a lot more **Pro Spring 3** Rob Harrop,Clarence Ho,2012-06-13 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 like Hibernate Groovy MyBatis and more Spring now also works with Java EE and JPA 2 as well Pro Spring 3 updates the bestselling Pro Spring with the latest that the Spring Framework has to offer version 3 1 At 1000 pages this is by far the most comprehensive Spring book available thoroughly exploring the power of Spring With Pro Spring 3 you ll learn Spring basics and core topics and gain access to 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 various tiers or parts of an enterprise Java application like transactions the web and presentations 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 After reading this definitive book you ll be armed with the power of Spring to build complex Spring applications top to bottom <u>Mastering Java Persistence API (JPA)</u> Nisha Parameswaran Kurur,2022-03-12 Filled with sample case study exercises commonly faced issues solutions and important interview questions this book is surely going to help developers to expand their skills in JPA KEY FEATURES Covers every JPA capability with detailed examples Explanation of popular JPA providers in detail as well as sample JPA code Includes solutions geared toward developers interview questions and expert advice DESCRIPTION Mastering Java Persistence API is geared towards experiencing the functioning of JPA and the extent of its use in Java SE and Java EE applications While the book s primary objective is to develop competence in JPA it also takes a simpler approach to refresh readers on basic database management system concepts and how to design simple JPA applications The book begins with the ideas like ORM EJB CMP and the difficulties associated with data conversion from a database to an application and vice versa are handled spontaneously The book discusses Table Row Column Cell and various forms of Relationships and progress sequentially through the JPA concepts It also discusses database processes such as identity generation sequencing locking querying persisting caching and transaction management in detail and emphasizes how JPA handles them Further the book covers the architecture and setup of two of the most extensively used JPA provider implementations Hibernate and EclipseLink in detail Additionally this book includes sample functioning code for connecting to a MySQL database Each JPA functionality is illustrated with a code snippet making it easier to modify these features as the application develops This book teaches both beginners and seasoned professionals how to integrate JPA concepts in their employment through numerous problems and answers spanning each of the topics WHAT YOU WILL LEARN Refresh your knowledge of relational database management system concepts in an object oriented approach Using JPA you can create a table row column key query data type etc Prepare for your first JPA project by working through the Mavenized Sample working code Identify various ways for object oriented representation of relationships Acquire proficiency in various approaches for storing caching and transaction management Discover the inner workings of JPA providers Hibernate and EclipseLink as well as their architecture WHO THIS BOOK IS FOR This book is aimed at Java developers who wish to master JPA and develop JPA based applications enthusiastically To get the most out of this book you should have a basic familiarity with Java programming TABLE OF CONTENTS 1 Java Persistence API and Object Relational Mapping 2 Tables Attributes and Embeddable Objects 3 Operations Identity Sequencing and Locking 4 Relationships Types and Strategies 5 Query Infrastructure 6 Entity Manager Persisting Caching and Transaction 7 Hibernate and EclipseLink 8 Appendix Part 1 JPA Advanced Topics 9 Appendix Part 2 Sample JPA

Application and Questions   *Seam in Action* Dan Allen,2008-08-31 JBoss Seam is an exciting new application framework based on the Java EE platform that is used to build rich web based business applications Seam is rapidly capturing the interest of Java enterprise developers because of its focus on simplicity ease of use transparent integration and scalability Seam in Action offers a practical and in depth look at JBoss Seam The book puts Seam head to head with the complexities in the Java EE architecture The author presents an unbiased view of Seam from outside the walls of RedHat JBoss focusing on such topics as Spring integration and deployment to alternative application servers to steer clear of vendor lock in By the end of the book you should expect to not only gain a deep understanding of Seam but also come away with the confidence to teach the material to others To start off you will see a working Java EE compliant application come together by the end of the second chapter As you progress through the book you will discover how Seam eliminates unnecessary layers and configurations solves the most common JSF pain points and establishes the missing link between JSF EJB 3 and JavaBean components The author also shows you how Seam opens doors for you to incorporate technologies you previously have not had time to learn such as business processes and stateful page flows jBPM Ajax remoting PDF generation asynchronous tasks and more All too often developers spend a majority of their time integrating disparate technologies manually tracking state struggling to understand JSF wrestling with Hibernate exceptions and constantly redeploying applications rather than on the logic pertaining to the business at hand Seam in Action dives deep into thorough explanations of how Seam eliminates these non core tasks by leveraging configuration by exception Java 5 annotations and aspect oriented programming Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book

New Ways of Running Batch Applications on z/OS: Volume 4 IBM IMS Denis Gaebler,Alex Louwe Kooijmans,Elsie Ramos,IBM Redbooks,2014-05-28 Mainframe computers play a central role in the daily operations of many of the world s largest corporations Batch processing is still a fundamental mission critical component of the workloads that run on the mainframe A large portion of the workload on IBM z OS systems is processed in batch mode This IBM Redbooks publication is the fourth volume in a series of four They address new technologies introduced by IBM to facilitate the use of hybrid batch applications that combine the best aspects of Java and procedural programming languages such as COBOL This volume focuses on the latest enhancements in IBM IMSTM batch support IMS has been available to clients for 45 years as IMS Transaction Manager IMS Database Manager or both The audience for this book includes IT architects and application developers with a focus on batch processing on the z OS platform   **Fundamentals of Object Databases** Suzanne Wagner Dietrich,Susan Urban,2011 This monograph presents the fundamentals of object databases with a specific focus on conceptual modeling of object database designs After an introduction to the fundamental concepts of object oriented data the monograph provides a review of object oriented conceptual modeling techniques using side by side Enhanced Entity Relationship diagrams and Unified Modeling Language conceptual class diagrams that feature class hierarchies with

specialization constraints and object associations These object oriented conceptual models provide the basis for introducing case studies that illustrate the use of object features within the design of object oriented and object relational databases For the object oriented database perspective the Object Data Management Group data definition language provides a portable language independent specification of an object schema together with an SQL like object query language LINQ Language INtegrated Query is presented as a case study of an object query language together with its use in the db4o open source object oriented database For the object relational perspective the object relational features of the SQL standard are presented together with an accompanying case study of the object relational features of Oracle For completeness of coverage an appendix provides a mapping of object oriented conceptual designs to the relational model and its associated constraints P 4 of cover **Enhancing Java EE Applications: Strategies for Performance and Scalability** Peter Jones,2025-01-09 Unlock the full potential of your Java EE applications with Enhancing Java EE Applications Strategies for Performance and Scalability This essential guide provides comprehensive coverage of techniques and strategies to boost the performance and scalability of your Java EE applications From architectural insights to advanced coding practices each chapter brims with expert advice and practical solutions to help you overcome performance and scalability challenges Learn how to profile and monitor applications to pinpoint bottlenecks optimize Java EE servers effectively interact with databases and implement robust concurrency and multithreading Explore caching strategies fine tune application code and master network communications within a Java EE context Additionally discover how to manage memory efficiently and deploy resources wisely to ensure maximum stability and performance Whether you re a software developer IT architect or system administrator this book empowers you to make performance driven decisions that can significantly impact the success of your enterprise applications Dive into Enhancing Java EE Applications Strategies for Performance and Scalability and elevate your Java EE skills ensuring your applications are efficient scalable and poised to meet the demands of your business **Java Server Programming Java EE 5 (J2EE 1.5) Black Book (Platinum Edition) w/CD** Kogent Solutions Inc.,2008-07 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 *Pivotal Certified Professional Spring Developer Exam*

Iuliana Cosmina,2016-12-22 Pass the Pivotal Certified Professional exam using source code examples study summaries and mock exams In this book you ll find a descriptive overview of certification related Spring modules and a single example application demonstrating the use of all required Spring modules Also it is suitable as an introductory primer for Spring newcomers Furthermore in Pivotal Certified Professional Spring Developer Exam A Study Guide each chapter contains a brief study summary and question set and the book s free downloadable source code package includes one mock exam 50 questions like a real exam After using this study guide you will be ready to take and pass the Pivotal Certified Professional exam When you become Pivotal Certified you will have one of the most valuable credentials in Java The demand for Spring skills is skyrocketing Pivotal certification helps you advance your skills and your career and get the maximum benefit from Spring Passing the exam demonstrates your understanding of Spring and validates your familiarity with container basics aspect oriented programming AOP data access and transactions Spring Security Spring Boot microservices and the Spring model view controller MVC Good luck What You ll Learn Understand the core principles of the popular Spring Framework Use dependency injection Work with aspects in Spring and do AOP aspect oriented programming Control transactional behavior and work with SQL and NoSQL MongoDB databases Create and secure web applications based on Spring MVC Get to know the format of exam and type of questions in it Create Spring microservices applications Who This Book Is ForSpring developers who have taken the Pivotal Core Spring class are eligible to take the Pivotal Certified Professional exam

Beginning Java EE 6 with GlassFish 3 Antonio Goncalves,2010-09-20 Java Enterprise Edition Java EE continues to be one of the leading Java technologies and platforms from Oracle previously Sun Beginning Java EE 6 Platform with GlassFish 3 Second Edition is this first tutorial book on the final version of the Java EE 6 Platform Step by step and easy to follow this book describes many of the Java EE 6 specifications and reference implementations and shows them in action using practical examples This book uses the new version of GlassFish 3 to deploy and administer the code examples Written by an expert member of the Java EE 6 specification request and review board in the Java Community Process JCP this book contains the best information possible from an expert s perspective on enterprise Java technologies   **Spring Boot Persistence Best Practices** Anghel Leonard,2020-04-29 This book is a collection of developer code recipes and best practices for persisting data using Spring particularly Spring Boot The book is structured around practical recipes where each recipe discusses a performance case or performance related case and almost every recipe has one or more applications Mainly when we try to accomplish something e g read some data from the database there are several approaches to do it and in order to choose the best way you have to know the implied trades off from a performance perspective You ll see that in the end all these penalties slow down the application Besides presenting the arguments that favor a certain choice the application is written in Spring Boot style which is quite different than plain Hibernate Persistence is an important set of techniques and technologies for accessing and using data and this book demonstrates that data is mobile regardless of specific applications and contexts In

Java development persistence is a key factor in enterprise ecommerce cloud and other transaction oriented applications 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 What You Will Learn Shape to many associations for best performances Effectively exploit Spring Projections DTO Learn best practices for batching inserts updates and deletes Effectively fetch parent and association in a single SELECT Learn how to inspect Persistent Context content Dissect pagination techniques offset and keyset Handle queries locking schemas Hibernate types and more Who This Book Is For Any Spring and Spring Boot developer that wants to squeeze the persistencelayer performances   Guide to Web Development with Java Tim Downey,2021-04-12 This comprehensive Guide to Web Development with Java introduces the readers to the three tiered Model View Controller architecture by using Spring JPA JSPs and Spring MVC controllers These three technologies use Java so that a student with a background in programming will be able to master them with ease with the end result of being able to create web applications that use MVC validate user input and save data to a database Topics and features Presents web development topics in an accessible easy to follow style focusing on core information first and allowing the reader to gain basic understanding before moving forwards Contains many helpful pedagogical tools for students and lecturers such as questions and exercises at the end of each chapter detailed illustrations chapter summaries and a glossary Uses existing powerful technologies that are freely available on the web to speed up web development such as Spring Boot Spring MVC Spring JPA Hibernate JSP JSTL and Java 1 8 Discusses HTML HTML forms and Cascading Style Sheets Starts with the simplest technology for web development JSP and gradually introduces the reader to more complex topics Introduces core technologies from the outset such as the Model View Controller architecture Includes examples for accessing common web services Provides supplementary examples and tutorials   **Spring Boot 3 and Spring Framework 6** Rheinwerk Publishing, Inc,Christian Ullenboom,2025-06-19 Master Spring Boot 3 and Spring Framework 6 to create scalable Java applications Learn database integration web development monitoring and deployment with modern best practices Key Features Comprehensive coverage of Spring Boot 3 and Spring Framework 6 core concepts and modules Detailed guidance on relational and NoSQL database integration for versatile data management Focus on practical deployment monitoring and logging techniques for production ready applications Book DescriptionThis book takes readers on a comprehensive journey through Spring Boot 3 and Spring Framework 6 starting with the essentials of dependency injection and Spring managed containers It then explores core modules and proxies to establish a strong foundation for Java application development Early chapters guide readers through configuring Spring Boot projects and managing dependencies efficiently The middle sections focus heavily on database integration including relational databases using Spring JDBC Jakarta Persistence and advanced Spring Data JPA techniques Readers will also learn to work with NoSQL databases like MongoDB and Elasticsearch enhancing their ability to handle various data storage solutions The book covers the development of web applications using

Spring MVC RESTful API design and securing web endpoints The final chapters emphasize application monitoring with Spring Boot Actuator logging strategies and practical deployment options including containerization Alongside the core content a dedicated migration chapter assists developers transitioning from Spring Boot 2 to version 3 ensuring they stay current with evolving best practices This structured approach prepares readers to confidently build monitor and deploy modern production ready Java applications What you will learn Build Spring Boot projects using dependency injection effectively Configure relational and NoSQL databases for scalable applications Develop RESTful APIs using Spring Web MVC and security best practices Implement Jakarta Persistence and Spring Data JPA for data management Monitor and log applications using Spring Boot Actuator and Micrometer Deploy Spring Boot applications with containers and cloud ready setups Who this book is for Ideal for Java developers aiming to deepen their Spring Boot and Spring Framework knowledge Readers should have basic Java programming skills and familiarity with object oriented programming concepts Some prior experience with Java EE or Spring is helpful but not required The book suits both beginners and intermediate developers ready to build full featured modern Java applications

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