

Spring 3 With Hibernate 4 Project For Professionals

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

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Information Technology and Management Innovation (ICITMI 2013), July 23-24, 2013, Zhuhai, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 642 papers are grouped as follows: Chapter 1: Information Processing and Information Security; Chapter 2: Information Storage and Database System; Chapter 3: Software Engineering; Chapter 4: Computer Networks; Chapter 5: Modern Technologies in Communication and Navigation; Chapter 6: Multimedia Technology; Chapter 7: Data and Signal Processing; Chapter 8: Processing Image and Video; Chapter 9: Applied and Computational Mathematics; Chapter 10: Sensors, Detection Technology and Instrument; Chapter 11: Circuit Theory and Microelectronic Devices and Technologies; Chapter 12: Automation Control and Mechatronics; Chapter 13: Artificial Intelligence and Optimization Algorithm; Chapter 14: E-commerce, E-government and Management; Chapter 15: Enterprise Resource Planning, Management System and Engineering Management; Chapter 16: Innovative Decisions in Transportation, Supply Chain and Logistic; Chapter 17: Information and Innovation Technologies in Engineering Education; Chapter 18: Applied Research in Materials, Mechanical Engineering and Technologies of Manufacture and Processing; Chapter 19: Applied Biotechnologies.

A complete guide to build robust and scalable web applications with Spring and Angular. About This Book This hands on guide teaches you how to build an end-to-end modern web application using Spring and Angular. It is easy to read and will benefit Java developers who have been used to develop the back-end part of web application while front-end (UI) has been left for UI developers. Learn the core aspects involved in developing the backend and the UI, right from designing to integrating and deploying. Who This Book Is For This book is targeted towards Java Web Developers with a basic knowledge of Spring who want to build complete web applications in a fast and effective way. They will want to gain a stronghold on both frontend and backend development to advance in their careers. What You Will Learn Set up development environment for Spring Web App and Angular app. Process web request and response and build REST API endpoints. Create data access components using Spring Web MVC framework and Hibernate Use Junit 5 to test your application Learn the fundamental concepts around building Angular Configuration and use Routes and Components. Protect Angular app content from common web vulnerabilities and attacks. Integrate Angular apps with Spring Boot Web API endpoints Deploy the web application based on CI and CD using Jenkins and Docker containers. In Detail Spring is the most popular application development framework being adopted by millions of developers around the world to create high performing, easily testable, reusable code. Its lightweight nature and extensibility helps you write robust and highly scalable server-side web applications. Coupled with the power and efficiency of Angular, creating web applications has never been easier. If you want to build end-to-end modern web application using Spring and Angular, then this book is for you. The book directly heads to show you how to create the backend with Spring, showing you how to configure the Spring MVC and handle Web requests. It will take you through the key aspects such as building REST API endpoints, using Hibernate, working with Junit 5. Once you have secured and tested the backend, we will go ahead and start working on the front end with Angular. You will learn about fundamentals of Angular and Typescript and create an SPA using components, routing etc. Finally, you will see how to integrate both the applications with REST protocol and deploy the application using tools such as Jenkins and Docker. Style and approach This is a straightforward guide that shows how to build a complete web application in Angular and Spring.

Spring Persistence with Hibernate is an easy-to-follow, step-by-step, and example-rich guide to using Spring and Hibernate to build robust and effective Java applications. Furthermore, the book can be used as reference in areas where developers need help. All the topics explained in the book are demonstrated with practical examples and uncomplicated figures. The book is primarily for Spring developers and users who want to persist using the popular Hibernate persistence framework. Java, Hibernate, JPA, Spring, and open source developers in general will also find the book useful.

What separates the traditional enterprise from the likes of Amazon, Netflix, and Etsy? Those companies have refined the art of cloud native development to maintain their competitive edge and stay well ahead of the competition. This practical guide shows Java/JVM developers how to build better software, faster, using Spring Boot, Spring Cloud, and Cloud Foundry. Many organizations have already waded into cloud computing, test-driven development, microservices, and continuous integration and delivery. Authors Josh Long and Kenny Bastani fully immerse you in the tools and methodologies that will help you transform your legacy application into one that is genuinely cloud native. In four sections, this book takes you through: The Basics: learn the motivations behind cloud native thinking; configure and test a Spring Boot application; and move your legacy application to the cloud Web Services: build HTTP and RESTful services with Spring; route requests in your distributed system; and build edge services closer to the data Data Integration: manage your data with Spring Data, and integrate distributed services with Spring support for event-driven, messaging-centric architectures Production: make your system observable; use service brokers to connect stateful services; and understand the big ideas behind continuous delivery

Pro Spring 3

Information Technology Applications in Industry II

Java Persistence with Hibernate

Expert Spring MVC and Web Flow

High-Performance Java Persistence

Professional Java Development with the Spring Framework

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 Java™ 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 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.

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.

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 For Spring developers who have taken the Pivotal Core Spring class are eligible to take the Pivotal Certified Professional exam.

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

5th International Conference, LCT 2018, Held as Part of HCI International 2018, Las Vegas, NV, USA, July 15-20, 2018, Proceedings, Part II Learn and Explore

DK Workbooks: Science, Second Grade

JSF 2 + Hibernate 4 + Spring 4

Designing Resilient Systems with Spring Boot, Spring Cloud, and Cloud Foundry

PrimeFaces 5 with JAX-WS and EJB'S

Shows how to use and integrate Hibernate and MongoDB. More specifically, this book guides you through the bootstrap; building transactions; handling queries and query entities; and mappings.

This two-volume set LNCS 10924 and 10925 constitute the refereed proceedings of the 5th International Conference on Learning and Collaboration Technologies, LCT 2018, held as part of the 20th International Conference on Human-Computer Interaction, HCII 2018, in Las Vegas, NV, USA in July 2018. The 1171 papers presented at HCII 2018 conferences were carefully reviewed and selected from 4346 submissions. The papers cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of applications areas. The papers in this volume are organized in the following topical sections: designing and evaluating systems and applications, technological innovation in education, learning and collaboration, learners, engagement, motivation, and skills, games and gamification of learning, technology-enhanced teaching and assessment, computing and engineering education.

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.

You can choose several data access frameworks when building Java enterprise applications that work with relational databases. But what about big data? This hands-on introduction shows you how Spring Data makes it relatively easy to build applications across a wide range of new data access technologies such as NoSQL and Hadoop. Through several sample projects, you'll learn how Spring Data provides a consistent programming model that retains NoSQL-specific features and capabilities, and helps you develop Hadoop applications across a wide range of use-cases such as data analysis, event stream processing, and workflow. You'll also discover the features Spring Data adds to Spring's existing JPA and JDBC support for writing RDBMS-based data access layers. Learn about Spring's template helper classes to simplify the use of database-specific functionality Explore Spring Data's repository abstraction and advanced query functionality Use Spring Data with Redis (key/value store), HBase (column-family), MongoDB (document database), and Neo4j (graph database) Discover the GemFire distributed data grid solution Export Spring Data JPA-managed entities to the Web as RESTful web services Simplify the development of HBase applications, using a lightweight object-mapping framework Build example big-data pipelines with Spring Batch and Spring Integration

Let us full stack development with Spring Boot and React JS. Key features This book has a very specific goal to make developing REST applications easier and focusing on common challenges of the design of the application with best practices. This book is providing practical code examples from real-world experiences. This book is not only about Spring Boot 2.2 and React JS overview but also has an in-depth discussion about adopted REST Architectural pattern and its constraints to create the REST APIs. The book can act as a tool for learning Spring Boot 2.2 and React JS for the first time as well as a guide and reference for those wanting to dig deeper into specific features. This book is also providing deeper information about the Spring Security and JWT token-based authentication for your REST applications. This does not only provide information about to design an application using Spring Boot and React JS but also providing how to deploy your application to the cloud platform (PaaS). Containerization using Docker is another key feature of this book, how to create a Docker image and how to run it. Description Designing Application with Spring Boot 2 & React JS is divided into three parts. The first part introduces you to the essentials of the Spring Boot 2.2 Framework and you will learn how to create REST APIs and how to secure REST APIs. Part 2 steps behind the front end application development with React JS and discuss React features and its advantages toward the front end application development. Part 3 expands on that by showing how to deploy backend and frontend application the PaaS platform and also will discuss how to deploy application container technologies such as Docker. What will you learn Exploring Spring Boot 2.2 new features and essential key components such as Starters, Autoconfiguration, CLI, Actuator. Develop a REST application using Spring Boot 2.2 and DevTools. Exploring Spring Boot Auto Configuration and Customization. Creating application profiles based on the environments. Learn to configure backend data using JDBC and Spring Data JPA. Learn to configure a DataSource for H2 DB, and also for Maria DB. Learn best practices for designing a REST architecture based application. Creating a REST application using HATEOAS. Consuming REST APIs endpoints with RestTemplate, Traverson, and WebClient. Exploring JWT web token for the RESTful APIs and explores how to secure REST APIs using OAuth2 and Spring security. Creating TESTING module of the Spring Boot application and Unit & Integration testing. Discuss React JS and its components and also discuss React KS features and its advantages and disadvantage. Exploring how to create ReactJS components and how to manage ReactJS component lifecycle. Taking a quick overview of consuming the REST API using the React application. Deploying the application to the Cloud platform (PaaS). Containerization and Deploy using Docker containers Who this book is for Designing

Application with Spring Boot 2.2 & React JS is for all Java developers who want to learn Spring Boot 2.2 and React JS as in the enterprise application. Therefore, enterprise Java developers will find it particularly useful in the understanding of Spring Boot 2.2 and React JS and how to develop a backend RESTful application using the Spring Boot 2.2 and frontend application using React JS framework. They will most fully appreciate the examples presented in this book. Before reading this book, readers should have basic knowledge of core java, spring, servlet, filter, XML, and JavaScript. Table of contents

1. Getting Started with Spring Boot 2.2
2. Customizing Auto-Configuration
3. Configuring Data and CRUD operations
4. Creating REST APIs with Spring Boot 2.2
5. Securing REST APIs
6. Testing Spring Boot Application
7. Getting Started with React
8. Creating and Styling React Components
9. Consuming the REST API with React JS
10. Deploying and Containerizing Application

About the author Dinesh Rajput is a founder of <https://www.dineshonjava.com>, a blog for Spring and Java techies. He is a Spring enthusiast and a Pivotal Certified Spring Professional. He has written many software design & development books, some of the bestselling books on Amazon. Dinesh's title *Spring 5 Design Patterns and Mastering Spring Boot 2.0* are the Amazon #1 best-selling books on Java. He has more than 10 years of experience with various aspects of Spring and cloud-native development, such as REST APIs and microservice architecture. He is currently working as an architect at a leading company. He has worked as a tech lead at Bennett, Coleman & Co. Ltd, and Paytm. He has a master's degree in computer engineering from JSS Academy of Technical Education, Noida, and lives in Noida with his family. His Website:

<https://www.dineshonjava.com> His Blog: <https://www.dineshonjava.com> & <https://www.dineshrajput.com> His LinkedIn Profile: <https://www.linkedin.com/in/rajputdinesh/>

Master design patterns of the Spring framework to build smart, efficient microservices

Spring in Action

Hibernate Tips

Just Spring Data Access

Cloud Native Java

A Study Guide Using Spring Framework 5

In this book we learn to integrate PrimeFaces JSF 2 + 4 + 5 + Hibernate Spring 4 in an easy and simple way, explain in detail the components that we have developed in our videos you have available for free on YouTube about these technologies. Also add new advanced features that will explain in great detail to bring out the most of buying this book. We also have surprises that will help you a lot and will be of your total professional interest.

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. *Hibernate Tips - More than 70 solutions to common Hibernate problems* shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

Pass the Pivotal Certified Professional exam for Core Spring, based on the latest Spring Framework 5, using source code examples, study summaries, and mock exams. This book now includes WebFlux, reactive programming, and more found in Spring 5. You'll find a descriptive overview of certification-related Spring modules and a single example application demonstrating the use of all required Spring modules. Furthermore, in Pivotal Certified Professional Core Spring 5 Developer Exam, Second Edition, 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. 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 Spring model-view-controller (MVC). Good luck! What You Will Learn Understand the core principles of Spring Framework 5 Use dependency injection Work with aspects in Spring and do AOP (aspect oriented programming) Control transactional behavior and work with SQL and NoSQL databases Create and secure web applications based on Spring MVC Get to know the format of the exam and the type of questions in it Create Spring microservices applications Who This Book Is For Spring developers who have taken the Pivotal Core Spring class are eligible to take the Pivotal Certified Professional exam.

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 persistence layer performances.

Summary A developer-focused guide to writing applications using Spring Boot. You'll learn how to bypass the tedious configuration steps so that you can concentrate on your application's behavior. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The Spring Framework simplifies enterprise Java development, but it does require lots of tedious configuration work. Spring Boot radically streamlines spinning up a Spring application. You get automatic configuration and a model with established conventions for build-time and runtime dependencies. You also get a handy command-line interface you can use to write scripts in

Groovy. Developers who use Spring Boot often say that they can't imagine going back to hand configuring their applications. About the Book Spring Boot in Action is a developer-focused guide to writing applications using Spring Boot. In it, you'll learn how to bypass configuration steps so you can focus on your application's behavior. Spring expert Craig Walls uses interesting and practical examples to teach you both how to use the default settings effectively and how to override and customize Spring Boot for your unique environment. Along the way, you'll pick up insights from Craig's years of Spring development experience. What's Inside Develop Spring apps more efficiently Minimal to no configuration Runtime metrics with the Actuator Covers Spring Boot 1.3 About the Reader Written for readers familiar with the Spring Framework. About the Author Craig Walls is a software developer, author of the popular book Spring in Action, Fourth Edition, and a frequent speaker at conferences. Table of Contents Bootstarting Spring Developing your first Spring Boot application Customizing configuration Testing with Spring Boot Getting Groovy with the Spring Boot CLI Applying Grails in Spring Boot Taking a peek inside with the Actuator Deploying Spring Boot applications APPENDIXES Spring Boot developer tools Spring Boot starters Configuration properties Spring Boot dependencies

With Web Services JAX-WS and EJB'S

Spring 5 Design Patterns

A Study Guide

More than 70 solutions to common Hibernate problems

Master efficient application development with patterns such as proxy, singleton, the template method, and more

Pro Spring MVC: With Web Flow

Learn various design patterns and best practices in Spring 5 and use them to solve common design problems. About This Book Explore best practices for designing an application Manage your code easily with Spring's Dependency Injection pattern Understand the benefits that the right design patterns can offer your toolkit Who This Book Is For This book is for developers who would like to use design patterns to address common problems while designing an app using the Spring Framework and Reactive Programming approach. A basic knowledge of the Spring Framework and Java is assumed. What You Will Learn Develop applications using dependency injection patterns Learn best practices to design enterprise applications Explore Aspect-Oriented Programming relating to transactions, security, and caching. Build web applications using traditional Spring MVC patterns Learn to configure Spring using XML, annotations, and Java. Implement caching to improve application performance. Understand concurrency and handle multiple connections inside a web server. Utilizing Reactive Programming Pattern to build Reactive web applications. In Detail Design patterns help speed up the development process by offering well tested and proven solutions to common problems. These patterns coupled with the Spring framework offer tremendous improvements in the development process. The book begins with an overview of Spring Framework 5.0 and design patterns. You will understand the Dependency Injection pattern, which is the main principle behind the decoupling process that Spring performs, thus making it easier to manage your code. You will learn how GoF patterns can be used in Application Design. You will then learn to use Proxy patterns in Aspect Oriented Programming and remoting. Moving on, you will understand the JDBC template patterns and their use in abstracting database access. Then, you will be introduced to MVC patterns to build Reactive web applications. Finally, you will move on to more advanced topics such as Reactive streams and Concurrency. At the end of this book, you will be well equipped to develop efficient enterprise applications using Spring 5 with common design patterns Style and approach The book takes a pragmatic approach, showing various design patterns and best-practice considerations, including the Reactive programming approach with the Spring 5 Framework and ways to solve common development and design problems for enterprise applications. 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.

Most professional web based projects are structured, documented and executed using the Spring 3 as the application development framework and Hibernate 4 as the Object Relational Mapping library with MySQL Server 5 as the data store. Spring 3 With Hibernate 4 Project For Professionals shows how to build and use this programming stack to develop a structured, documented, modestly sized project. It walks you through building and documenting a Book Management and Sales System [featuring a Shopping cart integrated with a payment gateway]. Topics Covered in the Book Key Topics Spring 3.2.0.M1 Hibernate 4.1.4 MySQL 5.5.25 Spring Security 3.1 Spring Web MVC NetBeans IDE 7.1.2 This Book Serves as a ready reference, with several add-ons and technologies, covering modestly sized project containing a Back-end with Master and Transaction data entry forms and a Front-end with application homepage and the shopping cart Illustrates real project documentation including Case Study, Business Requirements, Software Requirement Specifications, Data Dictionary, Table Definitions and Directory Structure, End User Manual and Software Design Document What You'll Learn? Shopping Cart integrated with a Payment Gateway for accepting payments using Credit Cards [Google Wallet] Tag Clouds, Session Management, Dispatch Emails [using JavaMail] Access based User Management and Restricted page access protection

A high-performance data access layer must resonate with the underlying database system. Knowing the inner workings of a relational database and the data access frameworks in use can make the difference between a high-performance enterprise application and one that barely crawls. This book is a journey into Java data access

performance tuning. From connection management, to batch updates, fetch sizes and concurrency control mechanisms, it unravels the inner workings of the most common Java data access frameworks. The first part aims to reduce the gap between application developers and database administrators. For this reason, it covers both JDBC and the database fundamentals that are of paramount importance when reducing transaction response times. In this first part, you'll learn about connection management, batch updates, statement caching, result set fetching and database transactions. The second part demonstrates how you can take advantage of JPA and Hibernate without compromising application performance. In this second part, you'll learn about the most efficient Hibernate mappings (basic types, associations, inheritance), fetching best practices, caching and concurrency control mechanisms. The third part is dedicated to jOOQ and its powerful type-safe querying capabilities, like window functions, common table expressions, upsert, stored procedures and database functions.

The Definitive Guide to Today's Leading Persistence Technologies Persistence in the Enterprise is a unique, up-to-date, and objective guide to building the persistence layers of enterprise applications. Drawing on their extensive experience, five leading IBM® Web development experts carefully review the issues and tradeoffs associated with persistence in large-scale, business-critical applications. The authors offer a pragmatic, consistent comparison of each leading framework--both proprietary and open source. Writing for IT managers, architects, administrators, developers, and testers, the authors address a broad spectrum of issues, ranging from coding complexity and flexibility to scalability and licensing. In addition, they demonstrate each framework side by side, via a common example application. With their guidance, you'll learn how to define your persistence requirements, choose the most appropriate solutions, and build systems that maximize both performance and value. Coverage includes Taking an end-to-end application architecture view of persistence Understanding business drivers, IT requirements, and implementation issues Driving your persistence architecture via functional, nonfunctional, and domain requirements Modeling persistence domains Mapping domain models to relational databases Building a yardstick for comparing persistence frameworks and APIs Selecting the right persistence technologies for your applications Comparing JDBC™, Apache iBATIS, Hibernate Core, Apache OpenJPA, and pureQuery The companion web site includes sample code that implements the common example used throughout the technology evaluation chapters, 5-9. The IBM Press developerWorks® Series is a unique undertaking in which print books and the Web are mutually supportive. The publications in this series are complemented by resources on the developerWorks Web site on ibm.com. Icons throughout the book alert the reader to these valuable resources.

Spring: Developing Java Applications for the Enterprise

Agile Java Development with Spring, Hibernate and Eclipse

A Lightweight Introduction to the Spring Framework

Pro Hibernate and MongoDB

Spring MVC Blueprints

Spring Persistence with Hibernate

Leverage the power of Spring MVC, Spring Boot, Spring Cloud, and additional popular web frameworks. About This Book Discover key Spring Framework-related technology standards such as Spring core, Spring-AOP, Spring data access frameworks, and Spring testing to develop robust Java applications easily This course is packed with tips and tricks that demonstrate Industry best practices on developing a Spring-MVC-based application Learn how to efficiently build and implement microservices in Spring, and how to use Docker and Mesos to push the boundaries and explore new possibilities Who This Book Is For This course is intended for Java developers interested in building enterprise-level applications with Spring Framework. Prior knowledge of Java programming and web development concepts (and a basic knowledge of XML) is expected. What You Will Learn Understand the architecture of Spring Framework and how to set up the key components of the Spring Application Development Environment Configure Spring Container and manage Spring beans using XML and Annotation Practice Spring AOP concepts such as Aspect, Advice, Pointcut, and Introduction Integrate bean validation and custom validation Use error handling and exception resolving Get to grips with REST-based web service development and Ajax Use Spring Boot to develop microservices Find out how to avoid common pitfalls when developing microservices Get familiar with end-to-end microservices written in Spring Framework and Spring Boot In Detail This carefully designed course aims to get you started with Spring, the most widely adopted Java framework, and then goes on to more advanced topics such as building microservices using Spring Boot within Spring. With additional coverage of popular web frameworks such as Struts, WebWork, Java Server Faces, Tapestry, Docker, and Mesos, you'll have all the skills and expertise you need to build great applications. Starting with the Spring Framework architecture and setting up the key components of the Spring Application Development Environment, you will learn how to configure Spring Container and manage Spring beans using XML and Annotation. Next, you will delve into Spring MVC, which will help you build flexible and loosely coupled web applications. You'll also get to grips with testing applications for reliability. Moving on, this course will help you implement the microservice architecture in Spring Framework, Spring Boot, and Spring Cloud. Written to the latest specifications of Spring, this book will help you build modern, Internet-scale Java applications in no time. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Learning Spring Application Development by Ravi Kant Soni Spring MVC Beginner's Guide - Second Edition by Amuthan Ganeshan Spring Microservices by Rajesh RV Style and approach This is a step-by-step guide for building a complete application and developing scalable microservices using Spring Framework, Spring Boot, and a set of Spring Cloud components

Summary Spring in Action, 5th Edition is the fully updated revision of Manning's bestselling Spring in Action. This new edition includes all Spring 5.0 updates, along with new examples on reactive programming, Spring WebFlux, and microservices. You'll also find the latest Spring best practices, including Spring Boot for application setup and configuration. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Spring Framework makes life easier for Java developers. New features in Spring 5 bring its productivity-focused approach to microservices, reactive development, and other modern application designs. With Spring Boot now fully integrated, you can start even complex projects with minimal configuration code. And the upgraded WebFlux framework supports reactive apps right out of the box! About the Book Spring in Action, 5th Edition guides you through Spring's core features, explained in Craig Walls' famously clear style. You'll roll up your sleeves and build a secure database-backed web app step by step. Along the way, you'll explore reactive programming,

microservices, service discovery, RESTful APIs, deployment, and expert best practices. Whether you're just discovering Spring or leveling up to Spring 5.0, this Manning classic is your ticket! What's inside Building reactive applications Spring MVC for web apps and RESTful web services Securing applications with Spring Security Covers Spring 5.0 Over 100,000 copies sold! About the Reader For intermediate Java developers. About the Author Craig Walls is a principal software engineer at Pivotal, a popular author, an enthusiastic supporter of Spring Framework, and a frequent conference speaker. Table of Contents PART 1 - FOUNDATIONAL SPRING Getting started with Spring Developing web applications Working with data Securing Spring Working with configuration properties PART 2 - INTEGRATED SPRING Creating REST services Consuming REST services Sending messages asynchronously Integrating Spring PART 3 - REACTIVE SPRING Introducing Reactor Developing reactive APIs Persisting data reactively PART 4 CLOUD-NATIVE SPRING Discovering services Managing configuration Handling failure and latency PART 5 - DEPLOYED SPRING Working with Spring Boot Actuator Administering Spring Monitoring Spring with JMX Deploying Spring

Get a concise introduction to Spring, the popular open source framework for building lightweight enterprise applications on the Java platform. This example-driven book for Java developers delves into the framework's basic features, as well as complex concepts such as containers. You'll learn how Spring makes Java Messaging Service easier to work with, and how its support for Hibernate helps you work with data persistence and retrieval. In this revised edition of Just Spring, you'll get your hands deep into sample code, beginning with a problem that illustrates Spring's core principle: dependency injection. In the chapters that follow, author Madhusudhan Konda walks you through features that underlie the solution. Dive into the new chapter on advanced concepts, such as bean scopes and property editors Learn dependency injection through a simple object coupling problem Tackle the framework's core fundamentals, including beans and bean factories Discover how Spring makes the Java Messaging Service API easier to use Learn how Spring has revolutionized data access with Java DataBase Connectivity (JDBC) Use Spring with the Hibernate framework to manipulate data as objects

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.

Implement JPA repositories and harness the performance of Redis in your applications.

Persistence in the Enterprise

Spring Data Standard Guide

Pivotal Certified Professional Spring Developer Exam

Techniques for scaling and optimizing Spring and Spring Boot applications

A Guide to Persistence Technologies

Pivotal Certified Professional Core Spring 5 Developer Exam

Over 50 recipes to help you build dynamic and powerful real-time Java Hibernate applications About This Book Learn to associate JDBC and Hibernate with object persistence Manage association mappings, implement basic annotations and learn caching Get to grips with Hibernate fundamentals from installation to developing a business application with this step-by-step guide Who This Book Is For This is book for Java developers who now want to learn Hibernate. Good knowledge and understanding of Java is preferred to allow efficient programming of the core elements and applications; it would be helpful if readers are familiar with the basics of SQL. What You Will Learn Set up and install Hibernate on your system and explore different ways in which Hibernate can be configured Learn the basic concepts and fundamentals of Java Hibernate Define mappings without a use of XML file using Annotations Persist collection elements such as list, map, set and array Explore the various mapping options and learn to work with Hibernate associations Understand advanced Hibernate concepts such as caching and inheritance Develop an engaging and robust real-world hibernate application based on a common business scenario Integrate Hibernate with other frameworks to develop robust enterprise applications In Detail Hibernate is a database independent technology, so the same code will work for all databases. It helps a Java developer write a query by mapping Java bean to database tables and help create tuned queries that boost performance. Even with limited SQL knowledge one can easily perform database operations. This makes the development faster and more accurate than JDBC. Hibernate supports useful features like connection pooling, caching, and inheritance etc. This book will provide a useful hands-on guide to Hibernate to accomplish the development of a real-time Hibernate application. We will start with the basics of Hibernate, which include setting up Hibernate – the pre-requisites and multiple ways of configuring Hibernate using Java. We will then dive deep into the fundamentals of Hibernate such as SessionFactory, session, criteria, working with objects and criteria. This will help a developer have a better understanding of how Hibernate works and what needs to be done to run a Hibernate application. Moving on, we will learn how to work with annotations, associations and collections. In the final chapters, we will see explore querying, advanced Hibernate concepts and integration with other frameworks. Style and approach This book is a practical guide filled with carefully organized step-by-step instructions. All recipes are arranged in an easy-to understand and clear manner allowing you to apply the solutions to other situations.

* 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.

JDBC has simplified database access in Java applications, but a few nagging wrinkles remain—namely, persisting Java objects to relational databases. With this book, you'll learn how the Spring Framework makes that job incredibly easy with dependency injection, template classes, and object-relational-mapping (ORM). Through sample code, you'll discover how Spring streamlines the use of JDBC and ORM tools such as Hibernate, the Java Persistence API (JPA), and Java Data Objects (JDO). If you're a Java developer familiar with Spring (perhaps through O'Reilly's Just Spring tutorial) and want to advance your data access skills, this book shows you how. Learn how to use Spring's basic and advanced data access tools Work with Spring's JdbcTemplate class to separate non-critical code from business code Eliminate placeholder variables in your queries with the NamedParameterJdbcTemplate class Use Spring's template classes to perform batch executions Operate inserts on database tables without writing any SQL statements Learn about Spring's support for Hibernate as an object-relational-mapping tool Use JPA as a standards-based ORM—alone or with Spring support Move data from a relational to a non-relational database with JDO.

Learn and use the design patterns and best practices in Spring to solve common design problems and build user-friendly microservices Key Features Study the benefits of using the right design pattern in your toolkit Manage your code easily with Spring's dependency injection pattern Explore the features of Docker and Mesos to build successful microservices Book Description Getting Started with Spring Microservices begins with an overview of the Spring Framework 5.0, its design patterns, and its guidelines that enable you to implement responsive microservices at scale. You will learn how to use GoF patterns in application design. You will understand the dependency injection pattern, which is the main principle behind the decoupling process of the Spring Framework and makes it easier to manage your code. Then, you will learn how to use proxy patterns in aspect-oriented programming and remoting. Moving on, you will understand the JDBC template patterns and their use in abstracting database access. After understanding the basics, you will move on to more advanced topics, such as reactive streams and concurrency. Written to the latest specifications of Spring that focuses on Reactive Programming, the Learning Path teaches you how to build modern, internet-scale Java applications in no time. Next, you will understand how Spring Boot is used to deploying serverless autonomous services by removing the need to have a heavyweight application server. You'll also explore ways to deploy your microservices to Docker and managing them with Mesos. By the end of this Learning Path, you will have the clarity and confidence for implementing microservices using Spring Framework. This Learning Path includes content from the following Packt products: Spring 5 Microservices by Rajesh R V Spring 5 Design Patterns by Dinesh Rajput What you will learn Develop applications using dependency injection patterns Build web applications using traditional Spring MVC patterns Utilize the reactive programming pattern to build reactive web apps Learn concurrency and handle multiple connections inside a web server Use Spring Boot and Spring Cloud to develop microservices Leverage reactive programming to build cloud-native applications Who this book is for Getting Started with Spring Microservices is ideal for Spring developers who want to use design patterns to solve common design problems and build cloud-ready, Internet-scale applications, and simple RESTful services.

Design and implement real-world web-based applications using the Spring Framework 4.x specification based on technical documentation About This Book Learn all the details of implementing Spring 4.x MVC applications from basic core platform construction to advanced integration implementations Gain a complete reference guide to implementing the controllers, models, views, view resolvers, and other service-related components to solve various real-world problems Discover the possible optimal solutions for developers and experts to build enterprise and personal web-based applications Create a Spring MVC application that has a validation process and exception handling with the HTTP status codes Who This Book Is For This book is for competent Spring developers who wish to understand how to develop complex yet flexible applications with Spring MVC. You must have a good knowledge of JAVA programming and be familiar with the basics of Spring. What You Will Learn Set up and configure the Spring 4.x MVC platform from ground level up using the basic Spring Framework 4.x APIs Study requirements and manage solutions on file uploading transactions in Spring 4.x applications Configure, , and test Spring integration to the Hibernate, MyBatis, and JPA frameworks for database transactions Properly implement exception handlers and audit trails in Spring MVC applications Generate reports using JFreeChart, Google Charts, JasperReports, DynamicReports, FreeMarker, Velocity, and Spring's API known as ContentNegotiatingViewResolver Configure security and flexibility by adding Captcha, Spring Security, Spring Flow, Spring Portlets, JTA to improve data management performance Implement web services using Spring's RESTful implementation and other service-oriented integration plugins Design and implement a Spring 4.x application using AngularJS, ExtJs, Twitter Bootstrap, and Spring Mobile for responsive web design In Detail Spring MVC is the ideal tool to build modern web applications on the server side. With the arrival of Spring Boot, developers can really focus on the code and deliver great value, leveraging the rich Spring ecosystem with minimal configuration. Spring makes it simple to create RESTful applications, interact with social services, communicate with modern databases, secure your system, and make your code modular and easy to test. It is also easy to deploy the result on different cloud providers. This book starts all the necessary topics in starting a Spring MVC-based application. Moving ahead it explains how to design model objects to handle file objects. save files into a data store and how Spring MVC behaves when an application deals with uploading and downloading files. Further it highlights form transactions and the user of Validation Framework as the tool in validating data input. It shows how to create a customer feedback system which does not require a username or password to log in. It will show you the soft side of Spring MVC where layout and presentation are given importance. Later it will discuss how to use Spring Web Flow on top of Spring MVC to create better web applications. Moving ahead, it will teach you how create an Invoice Module that receives and transport data using Web Services By the end of the book you will be able to create efficient and flexible real-time web applications using all the frameworks in Spring MVC. Style and approach This book is a compendium of technical specification documents that will guide you through building an application using Spring 4.x MVC. Each chapter starts with a high-level wireframe design of the software followed by how to set up and configure different libraries and tools.

Spring 3 with Hibernate 4 Project for Professionals

An In-Depth Guide to the Spring Framework and Its Tools

Java Hibernate Cookbook

Optimize Java Persistence Performance in Spring Boot Applications

Learning and Collaboration Technologies. Learning and Teaching

Pro Spring 5

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.

PLEASE NOTE - this is a replica of the print book and you will need paper and a pencil to complete the exercises. Perfect for children ages 7-8, this workbook builds confidence in the growing scientific understanding in second graders. Objectives include familiarity with animal life cycles and adaptations, insect life, plant reproduction, simple machines, and states of matter. Developed in consultation with leading educational experts to support curriculum learning, DK Workbooks: Science is an innovative series of home-learning science workbooks that is closely linked to school curriculum and helps make learning easy and fun. Each title is packed with exercises and activities to strengthen what children learn in school. With clear questions and supportive illustrations to help children understand each topic, the books provide practice to reinforce learning and understanding of key concepts, such as animal life cycles, the solar system, chemistry, and anatomy. A parents' section contains answers, tips, and guidance to provide support, and a certificate of achievement will reinforce confidence in kids by rewarding their accomplishments.

A hands-on guide to creating, monitoring, and tuning a high performance Spring web application
 Key Features Understand common performance pitfalls and improve your application's performance
 Build and deploy strategies for complex applications using the microservice architecture
 Understand internals of JVM - the core of all Java Runtime Environments Book Description While writing an application, performance is paramount. Performance tuning for real-world applications often involves activities geared toward detecting bottlenecks. The recent release of Spring 5.0 brings major advancements in the rich API provided by the Spring framework, which means developers need to master its tools and techniques to achieve high performance applications. Hands-On High Performance with Spring 5 begins with the Spring framework's core features, exploring the integration of different Spring projects. It proceeds to evaluate various Spring specifications to identify those adversely affecting performance. You will learn about bean wiring configurations, aspect-oriented programming, database interaction, and Hibernate to focus on the metrics that help identify performance bottlenecks. You will also look at application monitoring, performance optimization, JVM internals, and garbage collection optimization. Lastly, the book will show you how to leverage the microservice architecture to build a high performance and resilient application. By the end of the book, you will have gained an insight into various techniques and solutions to build and troubleshoot high performance Spring-based applications. What you will learn Master programming best practices and performance improvement with bean wiring Analyze the performance of various AOP implementations Explore database interactions with Spring to optimize design and configuration Solve Hibernate performance issues and traps Leverage multithreading and concurrent programming to improve application performance Gain a solid foundation in JVM performance tuning using various tools Learn the key concepts of the microservice architecture and how to monitor them Perform Spring Boot performance tuning, monitoring, and health checks Who this book is for If you're a Spring developer who'd like to build high performance applications and have more control over your application's performance in production and development, this book is for you. Some familiarity with Java, Maven, and Eclipse is necessary.

Learn integrate a secure, reliable and robust way several Java EE technologies is not an easy task far, it is not an impossible task, but it is a fact that such integration can be complex and confusing. In this book we learn to integrate PrimeFaces JSF 2 + 4 + 5 + Hibernate Spring 4 in an easy and simple way, explain in detail the components that we have developed in our videos you have available for free on YouTube about these technologies. Also add new advanced features that will explain in great detail to bring out the most of buying this book. Is not that enough? Here you will learn how to create an application from scratch step by step with all the technologies already mentioned and understand how and what each technology and projects which apply and which are not. The theory is in this book has nothing to do with what you learn in practice, to read and execute the steps in this book we guarantee that you will acquire a broad level in major frameworks and Java EE technologies.

Spring 3 with Hibernate 4 Project for Professionals
Arizona Business Alliance
Building Microservices with Spring
Pro Spring

Building Web Apps with Spring 5 and Angular

Spring Boot in Action

JSF 2 + Hibernate 4 + Spring 4 Second Part

Summary Spring in Practice shows you how to tackle the challenges you face when you build Spring-based applications. The book empowers software developers to solve concrete business problems by mapping application-level issues to Spring-centric solutions. It diverges from other cookbooks because it presents the background you need to understand the domain in which a solution applies before it offers the specific steps to solve the problem. About this Book Spring in Practice covers 66 Spring development techniques and the practical issues you will encounter when using them. The book starts with three carefully crafted introductory chapters to get you up to speed on the fundamentals. And then, the core of the book takes you step-by-step through the important, practical techniques you will use no matter what type of application you're building. You'll hone your Spring skills with examples on user accounts, security, NoSQL data stores, and application integration. Along the way, you'll explore Spring-based approaches to domain-specific challenges like CRM, configuration management, and site reliability. What's Inside Covers Spring 3 Successful outcomes with integration testing Dozens of web app techniques using Spring MVC Practical examples and real-world context How to work effectively with data Each technique highlights something new or interesting about Spring and focuses on that concept in detail. This book assumes you have a good foundation in Java and Java EE. Prior exposure to Spring Framework is helpful but not required. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Authors Willie Wheeler is a Principal Applications Engineer with 16 years of experience in Java/Java EE and Spring Framework. Joshua White is a Solutions Architect in the financial and health services industries. He has worked with Spring Framework since its inception in 2002. Table of Contents Introducing Spring: the dependency injection container Data persistence, ORM, and transactions Building web applications with Spring Web MVC Basic web forms Enhancing Spring MVC applications with Web Flow Authenticating users Authorizing user requests Communicating with users and customers Creating a rich-text comment engine Integration testing Building a configuration management database Building an article-delivery engine Enterprise integration Creating a Spring-based "site-up" framework

Just Spring

Designing Applications with Spring Boot 2.2 and React JS

Hands-On High Performance with Spring 5

Spring Boot Persistence Best Practices

Spring Data

Spring in Practice