

Maven Errors In Pom Xml With Dependencies Missing

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Spring 5.0 Cookbook - Sherwin John Calleja Tragura 2017-09-27
Over 100 hands-on recipes to build web applications easily and efficiently IN Spring 5.0 About This Book Solve real-world problems using the latest features of the Spring framework like Reactive Streams and the Functional Web Framework. Learn how to use dependency

injection and aspect-oriented programming to write compartmentalized and testable code. Understand when to choose between Spring MVC and Spring Web Reactive for your projects Who This Book Is For Java developers who would like to gain in-depth knowledge of how to overcome problems that they face while developing great

Spring applications. It will also cater to Spring enthusiasts, users and experts who need an arena for comparative analysis, new ideas and inquiries on some details regarding Spring 5.0 and its previous releases. A basic knowledge of Spring development is essential

What You Will Learn

Understand how functional programming and concurrency in JDK 1.9 works, and how it will affect Spring 5.0

Learn the importance and application of reactive programming in creating services, and also the process of creating asynchronous MVC applications

Implement different Spring Data modules

Integrate Spring Security to the container

Create applications and deploy using Spring Boot

Conceptualize the architecture behind Microservices and learn the details of its implementation

Create different test cases for the components of Spring 5.0

components

In Detail The Spring

framework has been the go-to framework for Java developers for quite some time. It enhances modularity, provides more readable code, and enables the developer to focus on developing the application while the underlying framework takes care of transaction APIs, remote APIs, JMX APIs, and JMS APIs. The upcoming version of the Spring Framework has a lot to offer, above and beyond the platform upgrade to Java 9, and this book will show you all you need to know to overcome common to advanced problems you might face. Each recipe will showcase some old and new issues and solutions, right from configuring Spring 5.0 container to testing its components. Most importantly, the book will highlight concurrent processes, asynchronous MVC and reactive programming using Reactor Core APIs. Aside from the core components, this book will also include integration of third-party

technologies that are mostly needed in building enterprise applications. By the end of the book, the reader will not only be well versed with the essential concepts of Spring, but will also have mastered its latest features in a solution-oriented manner.

Style and Approach This book follows a cookbook style approach, presenting a problem and showing you how to overcome it with useful recipes. The examples provided will help you code along as you learn.

[Spring Essentials](#) - Shameer Kunjumohamed 2016-02-26

Build mission-critical enterprise applications using Spring Framework and Aspect Oriented Programming About This Book Step into more advanced features of aspect-oriented programming and API components to build enterprise grade systems Build lightning-fast web applications and REST APIs using Spring MVC and its asynchronous processing capabilities with the

view technologies of your choice Explore simplified but powerful data access techniques including JPA (Java Persistence Architecture) repositories and NoSQL data access Who This Book Is For If you are a Java developer who is looking to master Enterprise Java Development using Spring Framework, then this book is ideal for you. Prior understanding of core Java programming and a high-level understanding of Spring Framework is recommended. Having sound knowledge of servlet-based web development in Java and basic Database concepts would be an advantage but not a requirement. What You Will Learn Set up and build standalone and web-based projects using Spring Framework with Maven or Gradle Get familiar with JSP Form processing using Spring and Form Tag Library Develop RESTful API applications for

XML and JSON data transfers with non-blocking asynchronous capabilities Explore Spring's comprehensive transaction support for declarative Transaction Management and its integration with Spring's data access abstractions Investigate Spring Data access mechanisms with Spring Data Repositories, a simple and consistent data-access abstraction Construct real-time applications using WebSocket with a SockJS fallback option Understand how to secure your Spring Web and standalone applications using Spring Security declaratively and consistently Get to grips with the end-to-end development of an API-based modern SPA using EmberJS at the front end and SpringMVC at the back end In Detail Spring is an open source Java application development framework to build and deploy systems and applications that run on the JVM. It is the industry standard and the most popular

framework among Java developers with over two-thirds of developers using it. Spring Essentials makes learning Spring so much quicker and easier with the help of illustrations and practical examples. Starting from the core concepts of features such as inversion of Control Container and BeanFactory, we move on to a detailed look at aspect-oriented programming. We cover the breadth and depth of Spring MVC, the WebSocket technology, Spring Data, and Spring Security with various authentication and authorization mechanisms. Packed with real-world examples, you'll get an insight into utilizing the power of Spring Expression Language in your applications for higher maintainability. You'll also develop full-duplex real-time communication channels using WebSocket and integrate Spring with web technologies such as JSF, Struts 2, and Tapestry. At the tail end, you will build a

modern SPA using EmberJS at the front end and a Spring MVC-based API at the back end. By the end of the book, you will be able to develop your own full-fledged applications with Spring.

Style and approach This book is a practical guide based on logical modules of the whole Spring Framework family, with a start-small approach, increasing in complexity as it progresses.

Every chapter is an amalgamation of theory and practical examples, with further discussion on additional features and approaches.

Microservices Deployment

Cookbook - Vikram Murugesan
2017-01-31

Master over 60 recipes to help you deliver complete, scalable, microservice-based solutions and see the improved business results immediately

About This Book

Adopt microservices-based architecture and deploy it at scale

Build your complete microservice architecture using

different recipes for different solutions

Identify specific tools for specific scenarios and deliver immediate business results, correlate use cases, and adopt them in your team and organization

Who This Book Is For This book is for developers, ops, and DevOps professionals who would like to put microservices to work and improve products, services, and operations. Those looking to build and deploy microservices will find this book useful, as well as managers and people at CXO level looking to adopt microservices in their organization. Prior knowledge of Java is expected. No prior knowledge of microservices is assumed.

What You Will Learn

Build microservices using Spring Boot, Wildfly Swarm, Dropwizard, and SparkJava

Containerize your microservice using Docker

Deploy microservices using Mesos/Marathon and Kubernetes

Implement service discovery and load balancing using Zookeeper, Consul, and Nginx Monitor microservices using Graphite and Grafana Write stream programs with Kafka Streams and Spark Aggregate and manage logs using Kafka Get introduced to DC/OS, Docker Swarm, and YARN In Detail This book will help any team or organization understand, deploy, and manage microservices at scale. It is driven by a sample application, helping you gradually build a complete microservice-based ecosystem. Rather than just focusing on writing a microservice, this book addresses various other microservice-related solutions: deployments, clustering, load balancing, logging, streaming, and monitoring. The initial chapters offer insights into how web and enterprise apps can be migrated to scalable microservices. Moving on, you'll see how to Dockerize your application so that it is ready to be

shipped and deployed. We will look at how to deploy microservices on Mesos and Marathon and will also deploy microservices on Kubernetes. Next, you will implement service discovery and load balancing for your microservices. We'll also show you how to build asynchronous streaming systems using Kafka Streams and Apache Spark. Finally, we wind up by aggregating your logs in Kafka, creating your own metrics, and monitoring the metrics for the microservice. Style and approach This book follows a recipe-driven approach and shows you how to plug and play with all the various pieces, putting them together to build a complete scalable microservice ecosystem. You do not need to study the chapters in order, as you can directly refer to the content you need for your situation.

API Security in Action - Neil Madden 2020-12-08

API Security in Action teaches

you how to create secure APIs for any situation. By following this hands-on guide you'll build a social network API while mastering techniques for flexible multi-user security, cloud key management, and lightweight cryptography. Summary A web API is an efficient way to communicate with an application or service. However, this convenience opens your systems to new security risks. API Security in Action gives you the skills to build strong, safe APIs you can confidently expose to the world. Inside, you'll learn to construct secure and scalable REST APIs, deliver machine-to-machine interaction in a microservices architecture, and provide protection in resource-constrained IoT (Internet of Things) environments. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology APIs control data

sharing in every service, server, data store, and web client.

Modern data-centric designs—including microservices and cloud-native applications—demand a comprehensive, multi-layered approach to security for both private and public-facing APIs. About the book API Security in Action teaches you how to create secure APIs for any situation. By following this hands-on guide you'll build a social network API while mastering techniques for flexible multi-user security, cloud key management, and lightweight cryptography. When you're done, you'll be able to create APIs that stand up to complex threat models and hostile environments. What's inside Authentication Authorization Audit logging Rate limiting Encryption About the reader For developers with experience building RESTful APIs. Examples are in Java. About the author Neil Madden

has in-depth knowledge of applied cryptography, application security, and current API security technologies. He holds a Ph.D. in Computer Science. Table of Contents PART 1 - FOUNDATIONS 1 What is API security? 2 Secure API development 3 Securing the Natter API PART 2 - TOKEN-BASED AUTHENTICATION 4 Session cookie authentication 5 Modern token-based authentication 6 Self-contained tokens and JWTs PART 3 - AUTHORIZATION 7 OAuth2 and OpenID Connect 8 Identity-based access control 9 Capability-based security and macaroons PART 4 - MICROSERVICE APIS IN KUBERNETES 10 Microservice APIs in Kubernetes 11 Securing service-to-service APIs PART 5 - APIS FOR THE INTERNET OF THINGS 12 Securing IoT communications 13 Securing IoT APIs
Java Power Tools - John Ferguson Smart 2008

Describes thirty open source tools that are designed to improve Java development practices, including build tools, quality metrics tools, unit testing tools, issue management tools, and continuous integration tools.

Spring MVC: Beginner's Guide -

Amuthan Ganeshan 2016-07-29

Unleash the power of the latest Spring MVC 4.x to develop a complete application About This Book Work through carefully crafted exercises with detailed explanations for each step will help you understand the concepts with ease You will gain a clear understanding of the end-to-end request/response life cycle, and each logical component's responsibility This book is packed with tips and tricks that demonstrate industry best practices on developing a Spring-MVC-based application Who This Book Is For The book is for Java developers who want to exploit Spring MVC and its features to build web applications. Some

familiarity with basic servlet programming concepts would be a plus, but is not a prerequisite.

What You Will Learn

Familiarize yourself with the anatomy of the Spring 4.X development environment
Understand web application architecture and the Spring MVC request flow
Integrate bean validation and custom validation
Use error handling and exception resolving
Get to grips with REST-based web service development and Ajax
Test your web application
In Detail
Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is architected and designed in such a way that every piece of logic and functionality is highly configurable. Also, Spring can integrate effortlessly with other popular web frameworks such as Struts, WebWork, Java Server Faces, and Tapestry. The book progressively teaches you to

configure the Spring development environment, architecture, controllers, libraries, and more before moving on to developing a full web application. It begins with an introduction to the Spring development environment and architecture so you're familiar with the know-hows. From here, we move on to controllers, views, validations, Spring Tag libraries, and more. Finally, we integrate it all together to develop a web application. You'll also get to grips with testing applications for reliability. Style and approach
This book takes a pragmatic step-by-step approach to web application development using Spring MVC, with informative screenshots and concise explanation.

Pro Web 2.0 Application Development with GWT - Jeff Dwyer 2008-07-27

Pro Web 2.0 Application Development by Jeff Dwyer is the first book on professional

Web 2.0 principles that includes the Google Web Toolkit (GWT). GWT is one of the leading Java Ajax frameworks in market, and is very hot in terms of relative growth; it can be integrated with other broader Java frameworks like JBoss Seam and possibly Spring. The book's focus on a single, extremely rich, example "killer application" is what sets this apart from other GWT titles.

Pro Spring Security - Carlo Scarioni 2013-06-17

Security is a key element in the development of any non-trivial application. The Spring Security Framework provides a comprehensive set of functionalities to implement industry-standard authentication and authorization mechanisms for Java applications. Pro Spring Security will be a reference and advanced tutorial that will do the following: Guides you through the implementation of the security features for a Java web application by presenting

consistent examples built from the ground-up. Demonstrates the different authentication and authorization methods to secure enterprise-level applications by using the Spring Security Framework. Provides you with a broader look into Spring security by including up-to-date use cases such as building a security layer for RESTful web services and Grails applications.

Mastering Spring 5.0 - Ranga Rao Karanam 2017-06-28

Develop cloud native applications with microservices using Spring Boot, Spring Cloud, and Spring Cloud Data Flow About This Book Explore the new features and components in Spring Evolve towards micro services and cloud native applications Gain powerful insights into advanced concepts of Spring and Spring Boot to develop applications more effectively Understand the basics of Kotlin and use it to develop a quick service with Spring Boot Who

This Book Is For This book is for an experienced Java developer who knows the basics of Spring, and wants to learn how to use Spring Boot to build applications and deploy them to the cloud.

What You Will Learn Explore the new features in Spring Framework 5.0 Build microservices with Spring Boot Get to know the advanced features of Spring Boot in order to effectively develop and monitor applications Use Spring Cloud to deploy and manage applications on the Cloud Understand Spring Data and Spring Cloud Data Flow Understand the basics of reactive programming Get to know the best practices when developing applications with the Spring Framework Create a new project using Kotlin and implement a couple of basic services with unit and integration testing In Detail Spring 5.0 is due to arrive with a myriad of new and exciting features that will change the

way we've used the framework so far. This book will show you this evolution—from solving the problems of testable applications to building distributed applications on the cloud. The book begins with an insight into the new features in Spring 5.0 and shows you how to build an application using Spring MVC. You will realize how application architectures have evolved from monoliths to those built around microservices. You will then get a thorough understanding of how to build and extend microservices using Spring Boot. You will also understand how to build and deploy Cloud-Native microservices with Spring Cloud. The advanced features of Spring Boot will be illustrated through powerful examples. We will be introduced to a JVM language that's quickly gaining popularity - Kotlin. Also, we will discuss how to set up a Kotlin project in Eclipse. By the end of the book, you will be equipped with the

knowledge and best practices required to develop microservices with the Spring Framework. Style and approach This book follows an end-to-end tutorial approach with lots of examples and sample applications, covering the major building blocks of the Spring framework.

The Well-Grounded Java Developer - Benjamin Evans
2012-07-09

Summary The Well-Grounded Java Developer offers a fresh and practical look at new Java 7 features, new JVM languages, and the array of supporting technologies you need for the next generation of Java-based software. About the Book The Well-Grounded Java Developer starts with thorough coverage of Java 7 features like try-with-resources and NIO.2. You'll then explore a cross-section of emerging JVM-based languages, including Groovy, Scala, and Clojure. You will find clear examples that are practical and

that help you dig into dozens of valuable development techniques showcasing modern approaches to the dev process, concurrency, performance, and much more.

Written for readers familiar with Java. No experience with Java 7 or new JVM languages required. 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. What's Inside New Java 7 features Tutorials on Groovy, Scala, and Clojure Discovering multicore processing and concurrency Functional programming with new JVM languages Modern approaches to testing, build, and CI Table of Contents PART 1 DEVELOPING WITH JAVA 7 Introducing Java 7 New I/O PART 2 VITAL TECHNIQUES Dependency Injection Modern concurrency Class files and bytecode Understanding performance tuning PART 3 POLYGLOT PROGRAMMING

ON THE JVM Alternative JVM languages Groovy: Java's dynamic friend Scala: powerful and concise Clojure: safer programming PART 4 CRAFTING THE POLYGLOT PROJECT Test-driven development Build and continuous integration Rapid web development Staying well-grounded

Mastering Oracle GoldenGate - Ravinder Gupta 2016-11-01 Master Oracle GoldenGate technology on multiple database platforms using this step-by-step implementation guide. Learn about advanced features to use in building a robust, high-availability replication system. Provided are detailed illustration of Oracle GoldenGate concepts, GoldenGate tools and add-ons, as well as illustrative examples. The book covers Oracle GoldenGate for Oracle database, and also discusses setup and configuration for other common databases such as IBM DB2, SYBASE ASE,

MySQL, and Microsoft SQL Server. The technology landscape is fast-changing, and Mastering Oracle GoldenGate stays current by covering the new features included in Oracle GoldenGate 12c. The book covers both classic capture and integrated capture, as well as delivery. Also covered are Oracle GoldenGate security and performance tuning, to keep your system secure and performing at its best. You will learn to monitor your GoldenGate system using tools that come with Oracle GoldenGate management pack, as well as using shell scripts. Troubleshooting is well-illustrated with examples: Covering Oracle GoldenGate technology across common database brands Discussing high-performing and secure replication environments Speaking to replication in Big Data and cloud computing environments What You Will Learn Implement Oracle

GoldenGate for real time replication Secure and tune your replication environment for high performance Administer your Oracle GoldenGate environment Learn troubleshooting approaches with help of examples Make use of GoldenGate Management Pack and its API Feed live data into Big Data and cloud-based systems Who This Book Is For Database professionals who have chosen to ride the Oracle GoldenGate roller coaster for real-time replication solutions. The book is for beginners as well as professionals who are willing to master the leading replication technology in the industry. It is an excellent choice for professionals who are implementing or maintaining Oracle GoldenGate replication environments on any of the major database management system platforms.

OAuth 2.0 Cookbook - Adolfo Eloy Nascimento 2017-10-18 Efficiently integrate OAuth 2.0 to protect your mobile, desktop,

Cloud applications and APIs using Spring Security technologies.

About This Book Interact with public OAuth 2.0 protected APIs such as Facebook, LinkedIn and Google. Use Spring Security and Spring Security OAuth2 to implement your own OAuth 2.0 provider Learn how to implement OAuth 2.0 native mobile clients for Android applications Who This Book Is For This book targets software engineers and security experts who are looking to develop their skills in API security and OAuth 2.0. Prior programming knowledge and a basic understanding of developing web applications are necessary. As this book's recipes mostly use Spring Security and Spring Security OAuth2, some prior experience with Spring Framework will be helpful.

What You Will Learn Use Redis and relational databases to store issued access tokens and refresh tokens Access resources protected

by the OAuth2 Provider using Spring Security Implement a web application that dynamically registers itself to the Authorization Server Improve the safety of your mobile client using dynamic client registration Protect your Android client with Proof Key for Code Exchange Protect the Authorization Server from COMPUTERS / Cloud Computing redirection In Detail OAuth 2.0 is a standard protocol for authorization and focuses on client development simplicity while providing specific authorization flows for web applications, desktop applications, mobile phones, and so on. This book also provides useful recipes for solving real-life problems using Spring Security and creating Android applications. The book starts by presenting you how to interact with some public OAuth 2.0 protected APIs such as Facebook, LinkedIn and Google. You will also be able to implement your own OAuth 2.0

provider with Spring Security OAuth2. Next, the book will cover practical scenarios regarding some important OAuth 2.0 profiles such as Dynamic Client Registration, Token Introspection and how to revoke issued access tokens. You will then be introduced to the usage of JWT, OpenID Connect, and how to safely implement native mobile OAuth 2.0 Clients. By the end of this book, you will be able to ensure that both the server and client are protected against common vulnerabilities. Style and approach With the help of real-world examples, this book provides step by step recipes for troubleshooting and extending your API security. The book also helps you with accessing and securing data on mobile, desktop, and cloud apps with OAuth 2.0. *Maven* - Vincent Massol 2005-06-20 A guide to the project-comprehension tool covers such topics as generating a Maven

report, publishing a project site, setting up a Continuous Integration environment, and developing Maven plug-ins.

Coordination Models and Languages - Giovanna Di Marzo Serugendo 2018-06-09

This book constitutes the proceedings of the 20th International Conference on Coordination Models and Languages, COORDINATION 2018, held in Madrid, Spain, in June 2018, as part of the 13th International Federated Conference on Distributed Computing Techniques, DisCoTec 2018. The 12 full papers included in this volume were carefully reviewed and selected from 26 submissions. The papers cover a wide range of topics and techniques related to system coordination, including: actor-based coordination, tuple-based coordination, agent-oriented techniques, constraints-based coordination, and finally coordination based on shared

spaces.

Android Application

Development with Maven -

Patroklos Papapetrou 2015-03-19

Android Application

Development with Maven is intended for Android developers or devops engineers who want to use Maven to effectively develop quality Android applications. It would be helpful, but not necessary, if you have some previous experience with Maven.

Maven: The Definitive Guide -

Sonatype Company 2008-09-24

For too long, developers have worked on disorganized application projects, where every part seemed to have its own build system, and no common repository existed for information about the state of the project. Now there's help. The long-awaited official documentation to Maven is here. Written by Maven creator Jason Van Zyl and his team at Sonatype, *Maven: The Definitive Guide* clearly

explains how this tool can bring order to your software development projects. Maven is largely replacing Ant as the build tool of choice for large open source Java projects because, unlike Ant, Maven is also a project management tool that can run reports, generate a project website, and facilitate communication among members of a working team. To use Maven, everything you need to know is in this guide. The first part demonstrates the tool's capabilities through the development, from ideation to deployment, of several sample applications -- a simple software development project, a simple web application, a multi-module project, and a multi-module enterprise project. The second part offers a complete reference guide that includes: The POM and Project Relationships The Build Lifecycle Plugins Project website generation Advanced site generation Reporting

Properties Build Profiles The Maven Repository Team Collaboration Writing Plugins IDEs such as Eclipse, IntelliJ, and NetBeans Using and creating assemblies Developing with Maven Archetypes Several sources for Maven have appeared online for some time, but nothing served as an introduction and comprehensive reference guide to this tool -- until now. *Maven: The Definitive Guide* is the ideal book to help you manage development projects for software, web applications, and enterprise applications. And it comes straight from the source. *Building and Testing with Gradle* - Tim Berglund 2011-07-13 Describes how to use the open source project automation tool to build and test software written in Java and other programming languages. *Deep Learning* - Josh Patterson 2017-07-28 Although interest in machine

learning has reached a high point, lofty expectations often scuttle projects before they get very far. How can machine learning—especially deep neural networks—make a real difference in your organization? This hands-on guide not only provides the most practical information available on the subject, but also helps you get started building efficient deep learning networks. Authors Adam Gibson and Josh Patterson provide theory on deep learning before introducing their open-source `Deeplearning4j` (DL4J) library for developing production-class workflows. Through real-world examples, you'll learn methods and strategies for training deep network architectures and running deep learning workflows on Spark and Hadoop with DL4J. Dive into machine learning concepts in general, as well as deep learning in particular. Understand how deep

networks evolved from neural network fundamentals. Explore the major deep network architectures, including Convolutional and Recurrent. Learn how to map specific deep networks to the right problem. Walk through the fundamentals of tuning general neural networks and specific deep network architectures. Use vectorization techniques for different data types with `DataVec`, DL4J's workflow tool. Learn how to use DL4J natively on Spark and Hadoop. [Spring MVC Cookbook](#) - Alex Bretet 2016-02-25. Over 40 recipes for creating cloud-ready Java web applications with Spring MVC. About This Book. Configure Spring MVC to build logic-less controllers that transparently support the most advanced web techniques. Build an amazing social and financial application that applies microservices patterns on deployment, self-

testability, interoperability, cloud architectures, and scalability Fast-paced, practical guide to learn how to set up Spring MVC to produce REST resources and templates as required by the latest front-end best practices Who This Book Is For If you are an experienced Java developer, with prior experience in web technologies, and want to step up in your career and stay up-to-date or learn more about Spring Web scalability, this book is for you. What You Will Learn Structure your project with Maven and create self-tested, domain-specific deployable web archives Generate templates for a responsive and powerful frontend with AngularJS and Bootstrap Build a high performance stateless RESTful and hypermedia application to support your multiple customer experiences Authenticate over REST with a BASIC authentication scheme and OAuth2; handle roles and

permissions Document and publish your REST API using Swagger and Swagger UI Scale your Spring web application Communicate through WebSocket and STOMP messages Provide support to your application and efficiently maintain its business features with a relevant test stack In Detail Spring MVC is a lightweight application framework that comes with a great configuration by default. Being part of the Spring Framework, it naturally extended and supported it with an amazing set of recognizable annotations. External libraries can be plugged in and plugged out. It also possesses a request flow. Complete support of REST web services makes the Spring architecture an extremely consistent choice to support your front-end needs and Internet transformations. From the design of your Maven modules, you will achieve an Enterprise-standard

for a stateless REST application based on Spring and Spring MVC with this book. This guide is unique in its style as it features a massive overview of practical development techniques brought together from the Spring ecosystem, the new JEE standards, the JavaScript revolution and Internet of Things. You will begin with the very first steps of Spring MVC's product design. Focused on deployment, viability, and maintainability, you will learn the use of Eclipse, Maven, and Git. You will walk through the separation of concerns driven by the microservices principles. Using Bootstrap and AngularJS, you will develop a responsive front-end, capable of interacting autonomously with a REST API. Later in the book, you will setup the Java Persistence API (JPA) within Spring; learn how to configure your Entities to reflect your domain needs, and discover Spring Data repositories. You will

analyze how Spring MVC responds to complex HTTP requests. You will implement Hypermedia and HATEOAS to guide your customer's stateless conversation with the product and see how a messaging-service based on WebSocket can be configured. Finally you will learn how to set up and organize different levels of automated-tests, including logging and monitoring. Style and approach A comprehensive, recipe-based guide to creating stunning Java apps with Spring MVC as a result of learning and implementing pro-level practices, techniques, and solutions.

Java 9 Modularity - Sander Mak
2017-09-07

The upcoming Java 9 module system will affect existing applications and offer new ways of creating modular and maintainable applications. With this hands-on book, Java developers will learn not only about the joys of modularity, but

also about the patterns needed to create truly modular and reliable applications. Authors Sander Mak and Paul Bakker teach you the concepts behind the Java 9 module system, along with the new tools it offers. You'll also learn how to modularize existing code and how to build new Java applications in a modular way. Understand Java 9 module system concepts Master the patterns and practices for building truly modular applications Migrate existing applications and libraries to Java 9 modules Use JDK 9 tools for modular development and migration

Hadoop: Data Processing and Modelling - Garry Turkington
2016-08-31

Unlock the power of your data with Hadoop 2.X ecosystem and its data warehousing techniques across large data sets About This Book Conquer the mountain of data using Hadoop 2.X tools The authors succeed in creating a

context for Hadoop and its ecosystem Hands-on examples and recipes giving the bigger picture and helping you to master Hadoop 2.X data processing platforms Overcome the challenging data processing problems using this exhaustive course with Hadoop 2.X Who This Book Is For This course is for Java developers, who know scripting, wanting a career shift to Hadoop - Big Data segment of the IT industry. So if you are a novice in Hadoop or an expert, this book will make you reach the most advanced level in Hadoop 2.X. What You Will Learn Best practices for setup and configuration of Hadoop clusters, tailoring the system to the problem at hand Integration with relational databases, using Hive for SQL queries and Sqoop for data transfer Installing and maintaining Hadoop 2.X cluster and its ecosystem Advanced Data Analysis using the Hive, Pig, and Map Reduce programs Machine

learning principles with libraries such as Mahout and Batch and Stream data processing using Apache Spark Understand the changes involved in the process in the move from Hadoop 1.0 to Hadoop 2.0 Dive into YARN and Storm and use YARN to integrate Storm with Hadoop Deploy Hadoop on Amazon Elastic MapReduce and Discover HDFS replacements and learn about HDFS Federation In Detail As Marc Andreessen has said “Data is eating the world,” which can be witnessed today being the age of Big Data, businesses are producing data in huge volumes every day and this rise in tide of data need to be organized and analyzed in a more secured way. With proper and effective use of Hadoop, you can build new-improved models, and based on that you will be able to make the right decisions. The first module, Hadoop beginners Guide will walk you through on understanding Hadoop with very

detailed instructions and how to go about using it. Commands are explained using sections called “What just happened” for more clarity and understanding. The second module, Hadoop Real World Solutions Cookbook, 2nd edition, is an essential tutorial to effectively implement a big data warehouse in your business, where you get detailed practices on the latest technologies such as YARN and Spark. Big data has become a key basis of competition and the new waves of productivity growth. Hence, once you get familiar with the basics and implement the end-to-end big data use cases, you will start exploring the third module, Mastering Hadoop. So, now the question is if you need to broaden your Hadoop skill set to the next level after you nail the basics and the advance concepts, then this course is indispensable. When you finish this course, you will be able to tackle the real-world scenarios and become a big data

expert using the tools and the knowledge based on the various step-by-step tutorials and recipes. Style and approach This course has covered everything right from the basic concepts of Hadoop till you master the advance mechanisms to become a big data expert. The goal here is to help you learn the basic essentials using the step-by-step tutorials and from there moving toward the recipes with various real-world solutions for you. It covers all the important aspects of Hadoop from system designing and configuring Hadoop, machine learning principles with various libraries with chapters illustrated with code fragments and schematic diagrams. This is a compendious course to explore Hadoop from the basics to the most advanced techniques available in Hadoop 2.X.

Mastering Behavior-Driven Development Using Cucumber -

Pinakin A Chaubal 2021-08-09
Master the skills required to

effectively use Cucumber BDD which simplifies Agile development and fast-paced time-to-market **KEY FEATURES** ● A step-by-step explanation of each component of the Cucumber framework. ● Expert coverage on speeding up the implementation of the Cucumber framework. ● Includes Parallel Execution, Cloud Testing, Explore Gherkin, and many more. **DESCRIPTION** In this book, readers will learn everything they need to know about Behavior-Driven Development (BDD) and a framework used for automation testing for BDD. The book is divided into three sections. The first section covers the building blocks of Cucumber such as Feature files, Step Definition classes, and Runner classes, among other things. These will serve as the building blocks for becoming more familiar with Cucumber. The second section covers the Page Object design

pattern and Page Factories, both of which are useful in developing robust frameworks. The final section demonstrates Cucumber's integration with TestNG and Maven. We will be putting each Maven build in Jenkins and configuring Jenkins to trigger automatically when a development build is completed. After reading this book, the test engineer will understand the concept of incorporating Cucumber as a BDD framework into his testing. As a result, he will be able to streamline the testing and bug detection processes.

WHAT YOU WILL LEARN

- Understand the fundamentals of Test-Driven Development and Behavior-Driven Development.
- Investigate Cucumber's building blocks such as Feature Files and Step Definition Files.
- Learn the Base Class and inheritance concept within the Page Object Model Framework.
- Create a TestNG XML that calls the test

runner class.

- Practice triggering POM xml testing.

WHO THIS BOOK IS FOR This book is aimed at individuals who have a firm grasp of the fundamentals of Java and are interested in improving their knowledge of the BDD framework.

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Chapter 1: Introduction to Behavior-Driven Development

Chapter 2: Understanding Feature Files

Chapter 3: Understanding Step Definition files

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Section 2: Learning the Page Object Design Pattern

Chapter 5: Understanding the Page Object Model and Creating Page Objects

Chapter 6: Understanding Page Factories and Creating Page Factories

Section 3: Integration with TestNG, Maven, and Jenkins

Chapter 7: Configuring the TestNG Framework

Chapter 8: Configuring Maven and

Learning about POM.xml
Chapter 9: POM.xml Execution
from Eclipse and Command Line
Chapter 10: Configuring
POM.xml to Trigger TestNG
xml Chapter 11: Configuring the
Runner Class for Cucumber
Reporter Plugin Chapter 12:
Reporting Using Extent Reports
Chapter 13: Parallel Execution
Using Selenium Grid Chapter 14:
Integration with Jenkins

Building RESTful Web Services
with Spring 5 - Raja CSP Raman
2018-01-29

Find out how to implement the
REST architecture to build
resilient software in Java with
the help of the Spring 5.0
framework. Key Features
Follow best practices and explore
techniques such as clustering and
caching to achieve a reactive,
scalable web service. Leverage
the Spring Framework to
quickly implement RESTful
endpoints. Learn to implement a
client library for a RESTful web
service using the Spring

Framework along with the new
front end framework. Book
Description REST is an
architectural style that tackles the
challenges of building scalable
web services. In today's
connected world, APIs have
taken a central role on the web.
APIs provide the fabric through
which systems interact, and
REST has become synonymous
with APIs. The depth, breadth,
and ease of use of Spring makes it
one of the most attractive
frameworks in the Java
ecosystem. Marrying the two
technologies is therefore a very
natural choice. This book takes
you through the design of
RESTful web services and
leverages the Spring Framework
to implement these services.
Starting from the basics of the
philosophy behind REST, you'll
go through the steps of designing
and implementing an enterprise-
grade RESTful web service.
Taking a practical approach, each
chapter provides code samples

that you can apply to your own circumstances. This second edition brings forth the power of the latest Spring 5.0 release, working with MVC built-in as well as the front end framework. It then goes beyond the use of Spring to explore approaches to tackle resilience, security, and scalability concerns. Improve performance of your applications with the new HTTP 2.0 standards. You'll learn techniques to deal with security in Spring and discover how to implement unit and integration test strategies. Finally, the book ends by walking you through building a Java client for your RESTful web service, along with some scaling techniques using the new Spring Reactive libraries. What you will learn

Deep dive into the principles behind REST

Expose CRUD operations through RESTful endpoints with the Spring Framework

Devise response formats and error handling

strategies, offering a consistent and flexible structure to simplify integration for service consumers

Follow the best approaches for dealing with a service's evolution while maintaining backward compatibility

Understand techniques to secure web services

Comply with the best ways to test RESTful web services, including tips for load testing

Optimise and scale web services using techniques such as caching and clustering

Who this book is for

This book is intended for those who want to learn to build RESTful web services with the latest Spring 5.0 Framework. To make best use of the code samples included in the book, you should have a basic knowledge of the Java language. Previous experience with the Spring Framework would also help you get up and running quickly.

High Performance in-memory computing with Apache Ignite - Shamim bhuiyan 2017-04-08

This book covers a verity of topics, including in-memory data grid, highly available service grid, streaming (event processing for IoT and fast data) and in-memory computing use cases from high-performance computing to get performance gains. The book will be particularly useful for those, who have the following use cases: 1) You have a high volume of ACID transactions in your system. 2) You have database bottleneck in your application and want to solve the problem. 3) You want to develop and deploy Microservices in a distributed fashion. 4) You have an existing Hadoop ecosystem (OLAP) and want to improve the performance of map/reduce jobs without making any changes in your existing map/reduce jobs. 5) You want to share Spark RDD directly in-memory (without storing the state into the disk) 7) You are planning to process continuous never-ending streams

and complex events of data. 8) You want to use distributed computations in parallel fashion to gain high performance.

Spring MVC: Designing Real-World Web Applications -

Shameer Kunjumohamed

2016-11-11

Unleash the power of Spring MVC and build enterprise-grade, lightning-fast web applications

About This Book Configure

Spring MVC to build logic-less

controllers that transparently

support the most advanced web

techniques Secure your

developments with easy-to-

write, reliable unit and end-to-

end tests Get this fast-paced,

practical guide to produce REST

resources and templates as

required by the latest front-end

best practices Who This Book Is

For This Learning Path is for

Java developers who want to

exploit Spring MVC and its

features to build web applications.

It will help you step up in your

career and stay up to date or

learn more about Spring's web scalability. What You Will Learn Set up and build standalone and web-based projects using Spring Framework with Maven or Gradle Develop RESTful API applications for XML and JSON data transfers Investigate Spring data access mechanisms with Spring Data Repositories Generate templates for a responsive and powerful front end with AngularJS and Bootstrap Authenticate over REST with a BASIC authentication scheme and OAuth2; handle roles and permissions Communicate through WebSocket and STOMP messages Design complex advanced-level forms and validate the model Create maintainable unit and acceptance tests to secure the apps Deploy the web application to the cloud in a snap In Detail Spring MVC helps you build flexible and loosely coupled web applications. The Spring MVC Framework is

designed in such a way that every piece of logic and functionality is highly configurable. This Learning Path aims to make you an expert in designing web applications with Spring MVC 4. In our first module, we'll begin with an introduction to the Spring framework. You'll then learn aspect-oriented programming. Packed with real-world examples, you'll get an insight into how you can use Spring Expression Language in your applications to make them easier to manage and maintain. In the second module, you'll learn everything you need to build modern Spring-based enterprise web applications. From practical development techniques and useful tools from the wider Spring ecosystem, to the new JEE standards, the impact of JavaScript, and even the Internet of Things, you'll feel confident that you can deploy Spring for an impressive range of creative

purposes. In the final module, you'll find out how to take advantage of Spring MVC's advanced features - essential if you are to properly master the framework. To do this you'll investigate the inner mechanics of Spring MVC, and how they tie into to the broader principles that inform many modern web architectures. With further guidance on how to test, secure, and optimize your application, as well as designing RESTful services, you'll very quickly be ready to use Spring in your next web project. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: Spring Essentials by Shameer Kunjumohamed, Hamidreza Sattari Spring MVC Cookbook by Alex Bretet Mastering Spring MVC 4 by Geoffroy Warin Style and approach This is a hands-on, practical guide based on logical

modules of the whole Spring framework family, employing a combination of theory and examples with pro-level practices, techniques, and solutions.

Getting started with Spring Framework: covers Spring 5 (4th Edition) - Ashish Sarin

2017-11-28

Chapter 1 of this book is now available online: bit.ly/2z8ErGg

4th Edition reflects changes to Spring 5, and includes new chapters on Functional and Reactive application development. Reactive application development chapters cover Reactive Streams specification, RxJava 2, Reactor, Spring WebFlux, and reactive support in Spring Data and Spring Security. The examples (consisting of 88 sample projects) that accompany this book are based on Spring 5.0.1 and Java 9. You can download the examples described in this book from the following GitHub project:

github.com/getting-started-with-spring/4thEdition This book covers: - Spring Framework basics - Aspect-oriented programming - Database interaction using Spring and Hibernate/JPA - Spring Data JPA - Spring Data MongoDB - Messaging, emailing and caching support - Spring Web MVC - Developing RESTful web services using Spring Web MVC - Functional programming using lambdas and method references - Stream API - Reactive programming using RxJava 2 and Reactor - Spring WebFlux - Reactive support in Spring Data MongoDB and Spring Security - Developing reactive RESTful web services using Spring WebFlux, Spring Security and Spring Data MongoDB

Selenium WebDriver Quick Start Guide - Pinakin Chaubal
2018-10-30
Get writing tests and learn to design your own testing framework with Selenium

WebDriver API Key
FeaturesLearn Selenium from the ground upDesign your own testing frameworkCreate reusable functionality in your frameworkBook Description
Selenium WebDriver is a platform-independent API for automating the testing of both browser and mobile applications. It is also a core technology in many other browser automation tools, APIs, and frameworks. This book will guide you through the WebDriver APIs that are used in automation tests. Chapter by chapter, we will construct the building blocks of a page object model framework as you learn about the required Java and Selenium methods and terminology. The book starts with an introduction to the same-origin policy, cross-site scripting dangers, and the Document Object Model (DOM). Moving ahead, we'll learn about XPath, which allows us to select items on a page, and how to design a

customized XPath. After that, we will be creating singleton patterns and drivers. Then you will learn about synchronization and handling pop-up windows. You will see how to create a factory for browsers and understand command design patterns applicable to this area. At the end of the book, we tie all this together by creating a framework and implementing multi-browser testing with Selenium Grid. What you will learn

Understand what an XPath is and how to design a customized XPath

Learn how to create a Maven project and build

Create a Singleton driver

Get to grips with Jenkins integration

Create a factory for browsers

Implement multi-browser testing with Selenium Grid

Create a sample pop-up window and JavaScript alert

Report using Extent Reports

Who this book is for

This book is for software testers or developers.

Practical JIRA Plugins -

Matthew B. Doar 2011-07-22

One advantage of using JIRA for issue tracking, bug tracking, or project management is the ability to extend this tool with hundreds of plugins from the JIRA community. In this concise book, software toolsmith Matt Doar—the author of *Practical JIRA Administration*—shows you how to create and maintain your own JIRA plugins to meet the specific needs of a project. This book uses detailed examples to clarify some of the more confusing aspects of JIRA plugins, and serves as an ideal supplement to the extensive documentation already available. Use JIRA's Plugin SDK, and learn several aspects common to all plugins

Create your own custom field type, using a JIRA plugin

Delve into advanced aspects of custom field plugins, and discover how searching for values in custom fields works

Create JIRA plugins to use with

workflows, and learn about conditions, validators, and post-functions Store data using the PropertySet interface and the Active Objects plugin Upgrade a plugin and upload it to Atlassian Plugin Exchange (PAC)

The Definitive Guide to JSF in

Java EE 8 - Bauke Scholtz

2018-05-29

Learn and master the new features in the JSF 2.3 MVC web framework in this definitive guide written by two of the JavaServer Faces (JSF) specification leads. The authors take you through real-world examples that demonstrate how these new features are used with other APIs in Java EE 8. You'll see the new and exciting ways JSF applications can use to communicate between a client and a server, such as using WebSockets, invoking bean methods directly from Ajax, executing client-side JavaScript when Ajax calls complete, and more Along the way you'll

broaden your knowledge of JSF components and web APIs best practices, and learn a great deal about the internals of JSF and the design decisions that have been made when building the JSF API. For example, you'll see what artefacts are now CDI injectable, how CDI changed JSF internally, and what some of the caveats are when working with the CDI versions of a JSF artefact. Furthermore, you'll build an example application from scratch. After reading The Definitive Guide to JSF in Java EE 8, you'll be ready to build your own efficient and secure web applications. What You Will Learn Leverage the new features in JSF 2.3 in your existing applications Integrate JSF and CDI Use the brand new Component Search Expression framework, which enables you to more easily locate components from your template Extend the Component Search Expression framework with your own

search operators Work with the different ways of mapping requests to JSF, make your application use extensionless URLs, and programmatically inspect which resources are present in your application Master the best practices for web application development and see which are obsolete Who This Book Is For Existing JSF or Java developers who need to create a web UI. No prior knowledge of JSF is required, but the book does skew towards the more experienced developer. Concepts such as dependency injection and MVC are assumed to be known, as is a general knowledge about HTML, HTTP and other web standards.

Spring Cookbook - Jérôme Jaglale
2015-05-25

This book is for you if you have some experience with Java and web development (not necessarily in Java) and want to become proficient quickly with Spring.

Beginning Java and Flex -

Filippo di Pisa 2010-04-02

Over the past few years, the now-open source Adobe Flex framework has been adopted by the Java community as the preferred framework for Java rich Internet applications (RIAs) using Flash for the presentation layer. Flex helps Java developers to build and maintain expressive web/desktop applications that deploy consistently on all major browsers, desktops, and operating systems. *Beginning Java and Flex* describes new, simpler, and faster ways to develop enterprise RIAs. This book is not only for Java or Flex developers, but also for all web developers who want to increase their productivity and the quality of their development. The aim of the book is to teach the new frontier of web development using open source, agile, lightweight Java frameworks with Flex. Java lightweight framework programming helps Flex

developers create dynamic-looking enterprise applications. Flex and Java are becoming very popular for both business and interactive applications.

The Java Module System -

Nicolai Parlog 2019-06-26

Summary Java's much-awaited "Project Jigsaw" is finally here! Java 11 includes a built-in modularity framework, and The Java Module System is your guide to discovering it. In this new book, you'll learn how the module system improves reliability and maintainability, and how it can be used to reduce tight coupling of system components. Foreword by Kevlin Henney. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. You'll find registration instructions inside the print book. About the Technology Packaging code into neat, well-defined units makes it easier to deliver safe and reliable

applications. The Java Platform Module System is a language standard for creating these units. With modules, you can closely control how JARs interact and easily identify any missing dependencies at startup. This shift in design is so fundamental that starting with Java 9, all core Java APIs are distributed as modules, and libraries, frameworks, and applications will benefit from doing the same. About the Book The Java Module System is your in-depth guide to creating and using Java modules. With detailed examples and easy-to-understand diagrams, you'll learn the anatomy of a modular Java application. Along the way, you'll master best practices for designing with modules, debugging your modular app, and deploying to production. What's inside The anatomy of a modular Java app Building modules from source to JAR Migrating to modular Java Decoupling dependencies and

refining APIs Handling reflection and versioning Customizing runtime images Updated for Java 11 About the Reader Perfect for developers with some Java experience. About the Author Nicolai Parlog is a developer, author, speaker, and trainer. His home is codefx.org. Table of Contents PART 1 - Hello, modules First piece of the puzzle Anatomy of a modular application Defining modules and their properties Building modules from source to JAR Running and debugging modular applications PART 2 - Adapting real-world projects Compatibility challenges when moving to Java 9 or later Recurring challenges when running on Java 9 or later Incremental modularization of existing projects Migration and modularization strategies PART 3 - Advanced module system features Using services to decouple modules Refining dependencies and APIs Reflection in a modular world

Module versions: What's possible and what's not Customizing runtime images with jlink Putting the pieces together
JIRA 5.x Development Cookbook
- Jobin Kuruville 2013-04-25
JIRA 5.x Development Cookbook is part of Packt's Cookbook series. A Packt Cookbook contains step-by-step recipes for solutions to the most important problems you face when working with a topic. Inside this Cookbook you will find: A straightforward and easy-to-follow format. A selection of the most important tasks and problems. Carefully organized instructions for solving the problem efficiently. Clear explanations of what you did. Details for applying the solution to other situations. If you are a JIRA developer or project manager who wants to fully exploit the exciting capabilities of JIRA, then this is the perfect book for you.

[Introducing Maven](#) - Balaji Varanasi 2014-12-02

Introducing Maven is your quick start-up primer guide on Maven. This fully packed mini-book includes the new features and enhancements found in the latest version of Maven. In this short 100-page book, you'll learn all about Maven and how to set it up to use. You'll learn about the Maven life cycle and how to effectively leverage and use it. Also, you'll learn the basics of using site plugins and generating Javadocs, test coverage/FindBugs reports, version/release notes and more. Furthermore, you'll take advantage of Maven's archetypes to bootstrap new projects easily. Finally, you will learn how to integrate Nexus repository manager with Maven release phases. After reading and using this short book, you'll have an understanding of Maven's dependency management and how to organize basic and multi-module Maven projects.

Introducing Maven - Balaji
Varanasi 2019-10-31

Gain an understanding of Maven's dependency management and use it to organize basic and multi-module Maven projects. This short book is your quick-start tutorial for learning to use Maven. It includes inconsistently immutable collections, better array construction, and more from the latest Maven version 3.6. This second edition covers the newest in today's most popular build tool for Java development and programming. You'll learn all about Maven and how to set it up. Firstly, you'll cover the Maven life cycle and how to effectively leverage it. Also, you'll see the basics of site plugins, generating Javadocs, test coverage/FindBugs reports, and version/release notes. Furthermore, you'll take advantage of Maven's archetypes to bootstrap new projects easily. Finally, you will learn how to integrate the Nexus repository manager with Maven release

phases. What You Will Learn Set up your basic project in Maven Create more advanced projects Apply the Maven life cycle to your build Work with Maven archetypes and manage Maven releases Integrate with Jenkins, Eclipse, and other IDEs Carry out debugging and password encryption Who This Book Is For Those new to Maven or those who are familiar with Maven, but maybe not with the latest Maven 3.6 release.

Java EE 8 Development with

Eclipse - Ram Kulkarni

2018-06-29

Develop and deploy fully functional applications and microservices utilising Tomcat, Glassfish servers, Cloud and docker in Java EE 8 Key Features Explore the complete workflow of developing enterprise Java applications Develop microservices with Docker Container and deploy it in cloud Simplify Java EE application development Book

Description Java EE is one of the most popular tools for enterprise application design and development. With recent changes to Java EE 8 specifications, Java EE application development has become a lot simpler with the new specifications, some of which compete with the existing specifications. This guide provides a complete overview of developing highly performant, robust and secure enterprise applications with Java EE with Eclipse. The book begins by exploring different Java EE technologies and how to use them (JSP, JSF, JPA, JDBC, EJB, and more), along with suitable technologies for different scenarios. You will learn how to set up the development environment for Java EE applications and understand Java EE specifications in detail, with an emphasis on examples. The book takes you through deployment of an application in

Tomcat, GlassFish Servers, and also in the cloud. It goes beyond the basics and covers topics like debugging, testing, deployment, and securing your Java EE applications. You'll also get to know techniques to develop cloud-ready microservices in Java EE. What you will learn Set up Eclipse, Tomcat, and Glassfish servers for Java EE application development Use JSP, Servlet, JSF, and EJBs to create a user interface and write business logic Create Java EE database applications using JDBC and JPA Handle asynchronous messages using MDBs for better scalability Deploy and debug Java EE applications and create SOAP and REST web services Write unit tests and calculate code coverage Use Eclipse MAT (Memory Analysis Tool) to debug memory issues Create and deploy microservices Who this book is for If you are a Java developer with little or no experience in Java EE application development,

or if you have experience in Java EE technology but are looking for tips to simplify and accelerate your development process, then this book is for you.

Modern Java in Action - Raoul-Gabriel Urma 2018-09-26

Summary Manning's bestselling Java 8 book has been revised for Java 9! In Modern Java in Action, you'll build on your existing Java language skills with the newest features and techniques. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Modern applications take advantage of innovative designs, including microservices, reactive architectures, and streaming data. Modern Java features like lambdas, streams, and the long-awaited Java Module System make implementing these designs significantly easier. It's time to upgrade your skills and meet these challenges head on! About

the Book *Modern Java in Action* connects new features of the Java language with their practical applications. Using crystal-clear examples and careful attention to detail, this book respects your time. It will help you expand your existing knowledge of core Java as you master modern additions like the Streams API and the Java Module System, explore new approaches to concurrency, and learn how functional concepts can help you write code that's easier to read and maintain. What's inside

Thoroughly revised edition of Manning's bestselling *Java 8 in Action* New features in Java 8, Java 9, and beyond Streaming data and reactive programming The Java Module System About the Reader Written for developers familiar with core Java features. About the Author Raoul-Gabriel Urma is CEO of Cambridge Spark. Mario Fusco is a senior software engineer at Red Hat. Alan Mycroft is a University

of Cambridge computer science professor; he cofounded the Raspberry Pi Foundation. Table of Contents PART 1 - FUNDAMENTALS Java 8, 9, 10, and 11: what's happening? Passing code with behavior parameterization Lambda expressions PART 2 - FUNCTIONAL-STYLE DATA PROCESSING WITH STREAMS Introducing streams Working with streams Collecting data with streams Parallel data processing and performance PART 3 - EFFECTIVE PROGRAMMING WITH STREAMS AND LAMBDA Collection API enhancements Refactoring, testing, and debugging Domain-specific languages using lambdas PART 4 - EVERYDAY JAVA Using Optional as a better alternative to null New Date and Time API Default methods The Java Module System PART 5 - ENHANCED JAVA CONCURRENCY Concepts behind `CompletableFuture` and

reactive programming
CompletableFuture: composable asynchronous programming
Reactive programming PART 6 - FUNCTIONAL PROGRAMMING AND FUTURE JAVA EVOLUTION
Thinking functionally Functional programming techniques
Blending OOP and FP:
Comparing Java and Scala
Conclusions and where next for Java
Big Data Analytics with Java - Rajat Mehta 2017-07-31
Learn the basics of analytics on big data using Java, machine learning and other big data tools
About This Book Acquire real-world set of tools for building enterprise level data science applications
Surpasses the barrier of other languages in data science and learn create useful object-oriented codes
Extensive use of Java compliant big data tools like apache spark, Hadoop, etc.
Who This Book Is For This book is for Java developers who are looking

to perform data analysis in production environment. Those who wish to implement data analysis in their Big data applications will find this book helpful.
What You Will Learn
Start from simple analytic tasks on big data
Get into more complex tasks with predictive analytics on big data using machine learning
Learn real time analytic tasks
Understand the concepts with examples and case studies
Prepare and refine data for analysis
Create charts in order to understand the data
See various real-world datasets
In Detail This book covers case studies such as sentiment analysis on a tweet dataset, recommendations on a movielens dataset, customer segmentation on an ecommerce dataset, and graph analysis on actual flights dataset.
This book is an end-to-end guide to implement analytics on big data with Java. Java is the de facto language for major big data environments, including

Hadoop. This book will teach you how to perform analytics on big data with production-friendly Java. This book basically divided into two sections. The first part is an introduction that will help the readers get acquainted with big data environments, whereas the second part will contain a hardcore discussion on all the concepts in analytics on big data. It will take you from data analysis and data visualization to the core concepts and advantages of machine learning, real-life usage of regression and classification using Naive Bayes, a deep discussion on the concepts of clustering, and a review of simple neural networks on big data using deepLearning4j or plain Java Spark code. This book is a must-have book for Java developers who want to start learning big data analytics and want to use it in the real world. Style and approach The approach of book is to deliver practical learning modules in manageable

content. Each chapter is a self-contained unit of a concept in big data analytics. Book will step by step builds the competency in the area of big data analytics. Examples using real world case studies to give ideas of real applications and how to use the techniques mentioned. The examples and case studies will be shown using both theory and code.

Scalable Data Architecture with Java - Sinchan Banerjee

2022-09-30

Orchestrate data architecting solutions using Java and related technologies to evaluate, recommend and present the most suitable solution to leadership and clients Key Features Learn how to adapt to the ever-evolving data architecture technology landscape Understand how to choose the best suited technology, platform, and architecture to realize effective business value Implement effective data security and governance

principles Book Description Java architectural patterns and tools help architects to build reliable, scalable, and secure data engineering solutions that collect, manipulate, and publish data. This book will help you make the most of the architecting data solutions available with clear and actionable advice from an expert. You'll start with an overview of data architecture, exploring responsibilities of a Java data architect, and learning about various data formats, data storage, databases, and data application platforms as well as how to choose them. Next, you'll understand how to architect a batch and real-time data processing pipeline. You'll also get to grips with the various Java data processing patterns, before progressing to data security and governance. The later chapters will show you how to publish Data as a Service and how you can architect it. Finally, you'll focus on how to evaluate and

recommend an architecture by developing performance benchmarks, estimations, and various decision metrics. By the end of this book, you'll be able to successfully orchestrate data architecture solutions using Java and related technologies as well as to evaluate and present the most suitable solution to your clients. What you will learn Analyze and use the best data architecture patterns for problems Understand when and how to choose Java tools for a data architecture Build batch and real-time data engineering solutions using Java Discover how to apply security and governance to a solution Measure performance, publish benchmarks, and optimize solutions Evaluate, choose, and present the best architectural alternatives Understand how to publish Data as a Service using GraphQL and a REST API Who this book is for Data architects, aspiring data architects, Java developers and

anyone who wants to develop or optimize scalable data architecture solutions using Java will find this book useful. A basic understanding of data architecture and Java programming is required to get the best from this book.

Spring: Developing Java

Applications for the Enterprise -

Ravi Kant Soni 2017-02-28

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