Professional Java For Web Applications

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What is this book about? Professional Java builds upon Ivor Horton's Beginning Java to provide the reader with an understanding of how professionals use Java to develop software solutions. Pro Java starts with an overview of best methods and tools for developing Java applications. It then examines the the more sophisticated and nuanced parts of the Java JDK. The final and most extensive part of the book shows how to implement these ideas to build real-world applications, using both Java APIs as well as related Java open source tools. In short, this book provides a comprehensive treatment of the professional Java development process, without losing focus in exhaustive coverage of isolated features and APIs.

Master the Java EE 8 and JSF (JavaServer Faces) APIs and web framework with this practical, projects-driven guide to web development. This book combines theoretical background with a practical approach by building four real-world applications. By developing these JSF web applications, you'll take a tour through the other Java EE technologies such as JPA, CDI, Security, WebSockets, and more. In Practical JSF in Java EE 8, you will learn to use the JavaServer Faces web framework in Java EE 8 to easily construct a web-based user interface from a set of reusable components. Next, you add JSF event handling and then link to a database,

persist data, and add security and the other bells and whistles that the Java EE 8 platform has to offer. After reading this book you will have a good foundation in Java-based web development and will have increased your proficiency in sophisticated Java EE 8 web development using the JSF framework. What You Will Learn Use the Java EE 8 and the JavaServer Faces APIs to build Java-based web applications through four practical real-world case studies Process user input with JSF and the expression language by building a calculator application Persist data using JSF templating and Java Persistence to manage an inventory of books Create and manage an alumni database using JSF, Ajax, web services and Java EE 8's security features. Who This Book Is For Those new to Java EE 8 and JSF. Some prior experience with Java is recommended. Develop Java enterprise applications to meet the emerging digital standards using Java EE 7 About This Book Build modern Java EE web applications that insert, update, retrieve, and delete customer data with up-to-date methodologies Delve into the essential JavaScript programming language and become proficient with front-end technologies that integrate with the Java platform Learn about JavaServer Faces, its lifecycle, and custom tags, and build exciting digital applications with the aid of handpicked, real-world examples Who This Book Is For If you are a professional Java engineer and want to develop well-rounded and strong Java Web Development skills, then this book is for you. What You Will Learn Understand and apply updated JavaServer Faces key features including HTML5 support, resource

library constructs, and pass through attributes Build web applications that conform to digital standards and governance, and leverage the Java EE 7 web architecture Construct modern JSF Forms that apply validation, add AJAX for immediate validation, and write your own validators Augment a traditional web application with JSF 2.2 Flow Beans and Flow Scope Beans Program single page applications including AngularJS, and design Java RESTful back-end services for integration Utilize modern web frameworks such as Bootstrap and Foundation in your JSF applications Create your own JSF custom components that generate reusable content for your stakeholders and their businesses In Detail Digital Java EE 7 presents you with an opportunity to master writing great enterprise web software using the Java EE 7 platform with the modern approach to digital service standards. You will first learn about the lifecycle and phases of JavaServer Faces, become completely proficient with different validation models and schemes, and then find out exactly how to apply AJAX validations and requests. Next, you will touch base with JSF in order to understand how relevant CDI scopes work. Later, you'll discover how to add finesse and pizzazz to your digital work in order to improve the design of your e-commerce application. Finally, you will deep dive into AngularJS development in order to keep pace with other popular choices, such as Backbone and Ember JS. By the end of this thorough guide, you'll have polished your skills on the Digital Java EE 7 platform and be able to creat exiting web application. Style and approach This book takes a step-

by-step and detailed approach, coaching you through real-world scenarios. The book's style is designed for those who enjoy a thorough educational approach. Develop Java enterprise applications to meet the emerging digital standards using Java EE 7About This Book• Build modern Java EE web applications that insert, update, retrieve, and delete customer data with up-to-date methodologies• Delve into the essential JavaScript programming language and become proficient with front-end technologies that integrate with the Java platform• Learn about JavaServer Faces, its lifecycle, and custom tags, and build exciting digital applications with the aid of handpicked, real-world examplesWho This Book Is ForIf you are a professional Java engineer and want to develop well-rounded and strong Java Web Development skills, then this book is for you.What You Will Learn• Understand and apply updated JavaServer Faces key features including HTML5 support, resource library constructs, and pass through attributes• Build web applications that conform to digital standards and governance, and leverage the Java EE 7 web architecture• Construct modern JSF Forms that apply validation, add AJAX for immediate validation, and write your own validators• Augment a traditional web application with JSF 2.2 Flow Beans and Flow Scope Beans• Program single page applications including AngularJS, and design Java RESTful back-end services for integration• Utilize modern web frameworks such as Bootstrap and Foundation in your JSF applications• Create your own JSF custom components that generate reusable content for your stakeholders and

their businessesIn DetailDigital Java EE 7 presents you with an opportunity to master writing great enterprise web software using the Java EE 7 platform with the modern approach to digital service standards.You will first learn about the lifecycle and phases of JavaServer Faces, become completely proficient with different validation models and schemes, and then find out exactly how to apply AJAX validations and requests. Next, you will touch base with JSF in order to understand how relevant CDI scopes work. Later, you'll discover how to add finesse and pizzazz to your digital work in order to improve the design of your e-commerce application. Finally, you will deep dive into AngularJS development in order to keep pace with other popular choices, such as Backbone and Ember JS.By the end of this thorough guide, you'll have polished your skills on the Digital Java EE 7 platform and be able to creat exiting web application.Style and approachThis book takes a step-by-step and detailed approach, coaching you through real-world scenarios. The book's style is designed for those who enjoy a thorough educational approach. What is this book about? The Extreme Programming (XP) methodology enables you to buildand test enterprise systems quickly without sacrificing quality. Inthe last few years, open source developers have created orsignificantly improved a host of Java XP tools, from XDoclet,Maven, AntHill, and Eclipse to Ant, JUnit, and Cactus. Thispractical, code-intensive guide shows you how to put these tools towork — and capitalize on the benefits of ExtremeProgramming. Using an example pet store application, our expert Javadevelopers

demonstrate how to harness the latest versions of Antand XDoclet for automated building and continuous integration. Theythen explain how to automate the testing process using JUnit,Cactus, and other tools, and to enhance project management andcontinuous integration through Maven and AntHill. Finally, theyshow you how to work with XP tools in the new Eclipse IDE. Complete with real-world advice on how to implement theprinciples and practices of effective developers, this bookdelivers everything you need to harness the power of ExtremeProgramming in your own projects. What does this book cover? Here are some of the things you'll find out about in thisbook: How to automate the building of J2EE apps and componentswith Ant and XDoclet Techniques for automating Java testing using JUnit Procedures for automating servlet, JSP, and other J2EE testingusing Cactus Ways to automate Swing testing with Jemmy, JFCUnit, andAbbot How to manage projects using Maven Techniques for automating continuous integration with AntHilland Cruise Control How to harness plugins for JUnit, Cactus, and Ant in theEclipse IDE Ways to implement Extreme Programming best practices Who is this book for? This book is for enterprise Java developers who have a generalfamiliarity with the XP methodology and want to put leading Java XPtools to work in the development process.

Provides information on Java EE design pattern implementation, including both the fundamental and advanced features of Java EE 7, problem-solving with design patterns, and case studies showing how patterns

were used in the field.

The book is packed with realistic information and suggestions for using Java tools in real-time projects. It also details today s rich and complex J2EE platform and practical focus on real world design and deployment extensively. This book is an excellent guide for Java Programmers who may not be very much familiar with fundamental concepts of network and web programming. It is an excellent resource for Java used on enterprise detailing J2EE APIs and programming techniques. · Introduction: The J2EE Platform· Directory Services and JNDI· Distributed Computing Using RMI· Database Programming With JDBC· Introduction to Web Containers· Servlet Programming· Servlet Sessions, Context and Collaboration· Filters For Web Applications· Web Deployment, Authentication and Packaging· JSP Basics and Architecture· JSP Tag Extensions· Writing JSP Applications with Tag Libraries· Java mail· EJB Architecture and Design· Session Beans and Business Logic· Entity Beans and Persistence· EJB Container Services· Development and Deployment Roles· JMS and Message - Driven Beans· The J2ee Connector Architecture· Design Considerations for J2EE Applications· J2EE and Web Services· Choosing A J2EE Implementation· J2EE Packaging and Deployment ?????Go???????????????????Go?????????????????Go??????????JavaScript?Ruby?Python?Java?C++??????????? ??? ??????Go??????????????????????????????????????? ??? ??????Go?? ??????????????????????????????????????Go???????????? ?? ??????????Go??

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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.
The comprehensive Wrox guide for creating Java web

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

Message Queuing Protocol (AMQP), and OAuth Professional Java for Web Applications is the complete Wrox guide for software developers who are familiar with Java and who are ready to build high-level enterprise Java web applications. Professional Java for Web ApplicationsJohn Wiley & Sons Working as an effective professional Java developer requires you to know Java APIs, tools, and techniques to solve a wide variety of Java problems. Building upon Ivor Horton's Beginning Java 2, this resource shows you how to use the core features of the latest JDK as well as powerful open source tools such as Ant, JUnit, and Hibernate. It will arm you with a well-rounded understanding of the professional Java development landscape. The expert author team begins by uncovering the sophisticated Java language features, the methodology for developing solutions, and steps for exploiting patterns. They then provide you with a collection of real-world examples that will become an essential part of your developer's toolkit. With this approach, you'll gain the skills to build advanced solutions by utilizing the more complex and nuanced parts of Java JDK 6. What you will learn from this book How to use tools to make your work easier and more productive Methods to develop effective user interfaces with Java Foundation Classes (JFC) Steps to build web applications using the Model 1 and Model 2 architectures Ways to interact with the databases and XML using JDBC and JAXB Techniques for developing enterprise applications using EJB 3.0 and web services How to package and deploy Java applications Who this book is for This book is for Java developers who are looking for an all-purpose resource, are ready for more advanced Java solutions and language features, and need assistance when tackling new Java problems that may be outside their technological experience. 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.

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Pro NetBeans IDE 6 Rich Client Platform Edition is the second Apress book to cover the agile, open source NetBeans IDE platform. The book focuses on the new features of NetBeans 6 as well as what has changed since NetBeans 5.5, empowering you to be a more effective and productive developer. Enables you to click and use any of the Java Swing and other desktop Java graphical user interface (GUI) APIs available in Java SE 6 or prior Covers working with rich client platform features available in NetBeans for building web–based application front ends Shows you the web–tier development plug-ins available including JSF, Struts Action Framework 2.0, and JRuby for bringing the Ruby on Rails feature set to Java via NetBeans For building back–end, server–side Java applications, pick up Pro NetBeans IDE 5.5 Enterprise Edition, which is based on APIs found in the Java EE 5. What you'll learn Easily install and set up your

NetBeans IDE platform environment, and organize your projects Use the NetBeans source editor, code compiler, refactoring, software development, profiler, collaboration, database, and debugger tools Develop your Java Swing application for your desktop from start to finish Deploy your Java Swing or other GUI application using Java Web Start features embedded in NetBeans Build rich client applications using NetBeans plug–in module tools/features from start to finish Extend your NetBeans IDE wish list to building Struts 2 and even JRuby (Ruby on Rails) based Java web application front ends Who this book is for Intended for Java developers of varying skill who may or may not be familiar with NetBeans IDE or Java IDEs in general.

Explains what Web services technologies are and how they work, discussing how to use them and what they do and covering topics including SOAP, WSDL, UDDI, security, interoperability, and integration.

JSP developers encounter unique problems when building web applications that require intense database connectivity. MySQL and JSP Web Applications addresses the challenges of building data-driven applications based on the JavaServer Pages development model. MySQL and JSP Web Applications begins with an overview of the core technologies required for JSP database development--JavaServer Pages, JDBC, and the database schema. The book then outlines and presents an Internet commerce application that demonstrates concepts such as receiving and processing user input, designing and implementing

business rules, and balancing the user load on the server. Through the JDBC (Java DataBase Connector), the developer can communicate with most commercial databases, such as Oracle. The solutions presented in MySQL and JSP Web Applications center on the open source tools MySQL and Tomcat, allowing the reader an affordable way to test applications and experiment with the book's examples.

What is this book about? Tomcat is an open source web server that processes JavaServer Pages and Java Servlets. It can run as a stand-alone server or be integrated with Apache. Like Apache, the core Tomcat program is relatively simple, but there are many enhancements that can be added to make it much more complex. What does this book cover? You will learn how to integrate Tomcat with the Apache HTTP server (and the situations when you should and you shouldn't), how to set up database connectivity through JDBC, and how to ensure your web applications are secure. This book will provide you, the server administrator, with the necessary knowledge to install and configure Tomcat, as well as many of the most popular enhancements to the Tomcat package. It will help you plan the installation and possible growth options of your site. Here are just a few of the things you'll find covered in this book: Tomcat 3.x, Tomcat 4.0.x, and Tomcat 4.1.x The Tomcat architecture Tomcat installation and

configuration Apache and Tomcat integration using the AJP and WARP connectors Tomcat security with SSL, realms, and the Java Security Manager Shared Tomcat hosting, server load testing, and load balancing Managing and administering web applications JDBC with Tomcat Ant and Log4j It will also cover some of the tools that can be integrated with Tomcat, such as Ant (for automatically building web applications) and Log4J (for advanced logging). Who is this book for? This book is for professionals working with Java web applications. It assumes a certain knowledge of the JSP and Servlet technologies, but only from an administrator's point of view. Knowledge of databases, XML, HTML, networking, and general administrative techniques is also assumed.

What is this book about? The Apache Software Foundation's Jakarta Struts remains the most popular Java framework for building enterprise-level Web applications. In the first book to cover the extensive new features of the final release of Struts 1.1, the authors present the technical and conceptual information you need to design, build, and deploy sophisticated Struts 1.1 applications. What does this book cover? This book covers everything you need to know about Struts and its supporting technologies, including JSPs, servlets, Web applications, the Jakarta-Tomcat JSP/servlet container, and much more. Here are just a few of the

things you'll find in this book: The Jakarta Struts Model 2 architecture and its supporting components How to get started with Struts and build your own components How to work with the Commons Validator, ActionForms, and DynaActionForms Techniques for customizing the Controlle Ways to maximize your presentation pages with Tiles How to internationalize your Struts applications Tips for managing errors and debugging Struts applications Who is this book for? This book is for Java developers who want to build sophisticated, enterprise-level Web applications using the final production release of Struts 1.1.
Professional Java Native Interfaces takes a solutions-based approach in showing how SWT/JFace works, discussing each common component, providing useful, practical ideas, tips and techniques to make the Java developers' work easier. The author provides relevant and timely examples, both stand-alone applications and smaller code snippets that readers can incorporate into their own code. To provide a truly real-world quality, the author builds an email/ftp client sample application to show readers how to combine everything into a presentable Java native UI application.
Subject Area The Java 2 Platform Enterprise Edition (J2EE) is the server-side, enterprise application supporting Java 2 development of dynamic Java based Web applications or n-tier Java enterprise

applications. Version 1.4, set to release in March 2003, brings to the Java developer for the first time, robust and secure access to web services from within the application and also updates J2EE with JSP 2.0, a major upgrade that simplifies the life of the developer and removes the need for complex code in web pages.

Wrox and Innerworkings join forces to create a comprehensive learning package for professional Java programmers. The co-branded Wrox/Innerworkings Skills Challenge is a digital learning product that provides programmers with effective hands-on practice with real-time feedback that complements the deep learning provided by Wrox publications. Professional Java for Web Applications will be written in tandem with Innerworking's patented training modules, used by over 100,000+ developers. Innerworkings modules will mirror the content and provide graded exercises that developers can work through until they get it right: *Each lesson starts with a scenario that describes a software problem *Next there's a challenge that is a list of specific items to be coded *Patented "code judging" engine evaluates the code and gives a score and a chance to rework until it's correct The package is ideal for software developers familiar with Java who have been asked to build enterprise Java applications or would like to expand capabilities in Java to cover enterprise Java

applications and web applications. Readers need knowledge in Java Standard Edition, the Web, and basic knowledge in HTML, XML, JavaScript, Structured Query Language (SQL) and relational databases. The Java Skills Challenge will contain lessons that map to Professional Java for Web Applications -- each lesson typically requires 45-60 minutes to complete.

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

*Exploits the finer points of core and standard editions of Java 2 *Updated to include the final Java 2SE 5.0 (Tiger) release * *Ideal for experienced non-Java and Java programmers who need intermediate level book

* J2EE 5 compliant - Pro JSP 2 will be latest/first book that contains JSP 2.1 that's in the new J2EE 5 platform. * Covers integration and use with open source projects such as Apache Struts, Ant, XDoclet, JUnit, and Cactus. It also includes all the rich features of JSP 2 as well as adds JavaServer Faces (JSF) interoperability and integration with JSP. * Shows the reader best persistence options, security means, performance optimization, and design patterns and best practices. Learn how to secure your Java applications from hackers using Spring Security 4.2 About This Book Architect

solutions that leverage the full power of Spring Security while remaining loosely coupled. Implement various scenarios such as supporting existing user stores, user sign up, authentication, and supporting AJAX requests, Integrate with popular Microservice and Cloud services such as Zookeeper, Eureka, and Consul, along with advanced techniques, including OAuth, JSON Web Token's (JWS), Hashing, and encryption algorithms Who This Book Is For This book is intended for Java Web and/or RESTful webservice developers and assumes a basic understanding of creating Java 8, Java Web and/or RESTful webservice applications, XML, and the Spring Framework. You are not expected to have any previous experience with Spring Security. What You Will Learn Understand common security vulnerabilities and how to resolve them Learn to perform initial penetration testing to uncover common security vulnerabilities Implement authentication and authorization Learn to utilize existing corporate infrastructure such as LDAP, Active Directory, Kerberos, CAS, OpenID, and OAuth Integrate with popular frameworks such as Spring, Spring-Boot, Spring-Data, JSF, Vaaden, jQuery, and AngularJS. Gain deep understanding of the security challenges with RESTful webservices and microservice architectures Integrate Spring with other security infrastructure components like LDAP, Apache Directory server and SAML In Detail Knowing that experienced hackers are itching to test your skills makes security one of the most difficult and high-pressured concerns of creating an application. The complexity of properly securing an application is compounded when you must also integrate this factor

with existing code, new technologies, and other frameworks. Use this book to easily secure your Java application with the tried and trusted Spring Security framework, a powerful and highly customizable authentication and access-control framework. The book starts by integrating a variety of authentication mechanisms. It then demonstrates how to properly restrict access to your application. It also covers tips on integrating with some of the more popular web frameworks. An example of how Spring Security defends against session fixation, moves into concurrency control, and how you can utilize session management for administrative functions is also included. It concludes with advanced security scenarios for RESTful webservices and microservices, detailing the issues surrounding stateless authentication, and demonstrates a concise, step-by-step approach to solving those issues. And, by the end of the book, readers can rest assured that integrating version 4.2 of Spring Security will be a seamless endeavor from start to finish. Style and approach This practical step-by-step tutorial has plenty of example code coupled with the necessary screenshots and clear narration so that grasping content is made easier and quicker.

Learn how to build high-performing enterprise applications using Java EE powered by Angular at the frontend Key Features Leverage Java EE 8 features to build robust backend for your enterprise applications Use Angular to build a single page frontend and combine it with the Java EE backend A practical guide filled with ample real-world examples Book Description The need

for high-performing web enterprise applications is growing rapidly. No longer is a basic HTML frontend enough to meet customer demands. This book will be your one-stop guide to build outstanding enterprise web applications with Java EE and Angular. It will teach you to harness the power of Java EE to build sturdy backends while applying Angular on the frontend. Your journey to building excellent web enterprise applications starts here! The book starts with a brief introduction to the fundamentals of Java EE and all the new APIs offered in the latest release. Armed with the knowledge of Java EE 8, you will cover what it's like to build an end-to-end application, configure database connection for JPA, and build a scalable microservice using RESTful APIs running in Docker containers. Taking advantage of Payaramicro capabilities, you will build an Issue Management System, which will have various features as services using Java EE backend. With a detailed coverage of Angular fundamentals, the book will expand the Issue Management System by building a modern single page application frontend. Moving forward, you will learn to fit both the pieces together; both the frontend Angular application and the backend Java EE microservices. As each unit in a microservice promotes high cohesion, you will learn different ways in which independent units can be tested efficiently. The book ends on a high note--concepts on securing your enterprise applications. This is your ultimate guide to building Modern Web Applications. What you will learn Write CDI-based code in Java EE 8 applications Build an understanding of microservices and what they mean in a

Java EE context Employ Docker to build and run microservice applications Use configuration optionsto work effectively with JSON documents Handle asynchronous task and write RESTAPI clients Set the foundation for working on Angular projects with the fundamentals of TypeScript Learn to use Angular CLI to add and manage new features Secure Angular applicationsusing malicious attacks adopting JSON Web tokens Who this book is for This book is for Java EE developers who would like to build modern enterprise web applications using Angular. No knowledge of Angular is required.

Web services is a major area for growth in the programming industry. Indeed Microsoft have staked their company on it, completely re-engineering the Windows platform for this purpose. In the Java world, a system for distributed, highly scalable, and maintainable enterprise systems is already in place. The software engineer must merely add an additional layer, that of web services, in order to enable implementation independent, cross application communication for distributed applications. This also means simpler enterprise application integration (EAI) through standard models for publishing, discovering, and binding to web services. This book teaches the tore standards for web services today, including SOAP, WSDL, and UDDI, giving practical advice on implementing web services in enterprise applications. Professional Java Web Services concisely explains the important technologies and specifications behind web services. The book outlines the architecture of web services, and the latest

information on implementing them.

This book covers the full development life cycle for professional GUI design in Java, from cost estimation and design to coding and testing. Focuses on building high quality industrial strength software in Java Ready-to-use source code is given throughout the text based on industrial-strength projects undertaken by the author. Expand your knowledge of Java for web applications with this book-and-software bundle With millions of users, Java is the world's second most popular programming language. If you have a basic knowledge of Java, this book-and-software package will help you expand your skills to cover enterprise Java applications and web applications. Each lesson begins with a scenario describing a software problem, then provides a list of specific items to be coded. With the patented code-judging engine provided by the Wrox Innerworkings software, you'll get a score and a chance to rework your code until it's correct, helping you learn each step of the way. Programmers with a basic knowledge of Java will learn advanced skills quickly and effectively with this innovative book-and-software training package Receive real-time feedback on your code through the patented Innerworkings code-judging engine Uses proven Wrox teaching techniques along with digital training to provide a thorough working knowledge of Java for web applications Professional Java for Web Applications Challenge Set combines Wrox know-how with a patented Innerworkings code lab to give you a powerful training module for advanced Java programming.

Enterprise Java Beans (EJB) is a server-side component

architecture and a central part of the J2EE platform. EJB enables the rapid development of distributed, secure and portable Java applications. This follow-up title to Professional Java Server Programming - J2EE Edition goes from design principles and theory right through to building robust real-world applications and concludes with several case studies including EJB applications and COM integration. Published to coincide with the EJB 2.0 specification this book is an in-depth guide to every aspect of this component architecture.

Professional Java Programming builds upon Ivor Horton's Beginning Java to provide the reader with an understanding of how professionals use Java to develop software solutions. Pro Java Programming starts with an overview of best methods and tools for developing Java applications. It then examines the more sophisticated and nuanced parts of the Java SDK. The final and most extensive part of the book shows how to implement these ideas to build real-world applications, using both Java APIs as well as related Java open source tools. In short, this book provides a comprehensive treatment of the professional Java development process, without losing focus in exhaustive coverage of isolated features and APIs.This new edition (about 35% new and revised) is fully updated to cover the JDK 6 release. Updates cover:· New web services APIs· The next JDBC API· Generics· Metadata facility enhancements· Scripting, which will be more tightly integrated with the Java language· Updates to related tools (e.g., Hibernate), which have added new features for improved functioning with JDK 6 What is this book about? Open source technology enables you to build customized enterprise portal frameworks with more flexibility and fewer limitations. This book explains the fundamentals of a powerful set of open source tools and

shows you how to use them. An outstanding team of authors provides a complete tutorial and reference guide to Java Portlet API, Lucene, James, and Slide, taking you step-by-step through constructing and deploying portal applications. You trace the anatomy of a search engine and understand the Lucene query syntax, set up Apache James configuration for a variety of servers, explore object to relational mapping concepts with Jakarta OJB, and acquire many other skills necessary to create J2EE portals uniquely suited to the needs of your organization. Loaded with code-intensive examples of portal applications, this book offers you the know-how to free your development process from the restrictions of pre-packaged solutions. What does this book cover? Here's what you will learn in this book: How to evaluate business requirements and plan the portal How to develop an effective browser environment How to provide a search engine, messaging, database inquiry, and content management services in an integrated portal application How to develop Web services for the portal How to monitor, test, and administer the portal How to create portlet applications compliant with the Java Portlet API How to reduce the possibility of errors while managing the portal to accommodate change How to plan for the next generation application portal Who is this book for? This book is for professional Java developers who have some experience in portal development and want to take advantage of the options offered by open source tools. ????????Servlet?JSP,???????????(????????????),????JSP? ????,JSP??????,??????????,????????,????????????????? Use Java 9 and JavaFX 9 to write 3D games for the latest consumer electronics devices. Written by open source gaming expert Wallace Jackson, this book uses Java 9 and NetBeans 9 to add leading-edge features, such as 3D, textures, animation, digital audio, and digital image

compositing to your games. Along the way you'll learn about game design, including game design concepts, genres, engines, and UI design techniques. To completely master Java 3D game creation, you will combine this knowledge with a number of JavaFX 9 topics, such as scene graph hierarchy; 3D scene configuration; 3D model design and primitives; model shader creation; and 3D game animation creation. With these skills you will be able to take your 3D Java games to the next level. The final section of Pro Java 9 Games Development puts the final polish on your abilities. You'll see how to add AI logic for random content selection methods; harness a professional scoring engine; and player-proof your event handling. After reading Pro Java 9 Games Development, you will come away with enough 3D expertise to design, develop, and build your own professional Java 9 games, using JavaFX 9 and the latest new media assets. What You'll Learn Design and build professional 3D Java 9 games, using NetBeans 9, Java 9, and JavaFX 9 Integrate new media assets, such as digital imagery and digital audio Integrate the new JavaFX 9 multimedia engine API Create an interactive 3D board game, modeled, textured, and animated using JavaFX Optimize game assets for distribution, and learn how to use the Java 9 module system Who This Book Is For Experienced Java developers who may have some prior game development experience. This book can be for experienced game developers new to Java programming. "Get practical experience in professional Java web programming for enterprises. Start by learning about web apps and databases using JavaServer Pages (JSP) and Plain Old Java Objects (POJOs). As you progress, you'll learn how to extend and improve upon a sample shopping cart web application. Finally, you'll spin up an Apache Tomcat web server and see how it all comes together."--Resource description page.

What is this book about? The Apache Tomcat server and related technologies give Java developers a rich set of tools to quickly build more sophisticated Web applications. Tomcat version 5 supports the latest JSP and Servlet specifications, JSP 2.0, and Servlets 2.4. This completely updated volume offers you a thorough education in Tomcat 5 as well as 4.1. What does this book cover? You will learn to solve the problems that arise with installation and configuration, security, system testing, and more. This edition also introduces you to Tomcat clustering for planning and deploying installations in mission-critical production environments, and explores the new support for Tomcat in popular IDEs, such as IntelliJ IDEA, Eclipse, NetBeans/Sun Java Studio, and JBuilder. You'll discover how to manage class loaders and Connectors, understand how to use IIS as a Web server front-end for Tomcat, examine JDBC-related issues in Tomcat, and be ready to put this technology to work. Here are some other things you'll learn from this book: Techniques and troubleshooting tips for installing JVM and Tomcat on Windows and UNIX/Linux systems Detailed Tomcat configuration, such as Access log administration, Single Sign-on across Web applications, request filtering, the Persistent Session Manager, and JavaMail session setup How to resolve JDBC connectivity issues, including connection pooling, JNDI emulation, configuring a data source, and alternative JDBC configurations How to use Web servers like Apache and IIS with Tomcat to serve static content A wide range of security issues, from securing Tomcat installations to configuring security policies for Web applications that run on them How to configure Tomcat for virtual hosting environments Procedures for load-testing Web applications deployed in Tomcat using the open source JMeter framework How to set up Tomcat clustering to provide scalability and high availability to Web applications How to

embed Tomcat within custom applications Who is this book for? This book is for J2EE system administrators and Java developers with responsibilities for Tomcat configuration, performance tuning, system security, or deployment architecture.

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.
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