

Java Ee 7 Development With Netbeans 8 Heffelfinger David R

Essays by Charles Stuckey and Frederic Tuten. Foreword by Jack Cowart.

Develop Enterprise Java applications compliant with the latest version of the Java EE specification
About This Book* This book covers all of the major Java EE 8 APIs and includes new additions such as enhanced Security, JSON-B Processing, and more* Learn additional Java EE APIs, such as the Java API for Websocket and the Java Message Service (JMS)* Develop applications by taking advantage of the latest versions of CDI, Security, Servlets, and JSF and other Java EE specifications
Who This Book Is ForIf you are a Java developer who wants to become proficient with Java EE 8, this book is ideal for you. You are expected to have some experience with Java and to have developed and deployed applications in the past, but you don't need any previous knowledge of Java EE.
What You Will Learn* Develop and deploy Java EE applications* Embrace the latest additions to the Contexts and Dependency Injection (CDI) specification to develop Java EE applications* Develop web-based applications by utilizing the latest version of JavaServer Faces, JSF 2.3.* Understand the steps needed to process JSON data with JSON-P and the new JSON-B Java EE API* Implement RESTful web services using the new JAX-RS 2.1 API, which also includes support for Server-Sent Events (SSE) and the new reactive client API
In DetailJava EE is an Enterprise Java standard. Applications written to comply with the Java EE specification do not tie developers to a specific vendor; instead they can be deployed to any Java EE compliant application server. With this book, you'll get all the tools and techniques you need to build robust and scalable applications in Java EE 8. This book covers all the major Java EE 8 APIs including JSF 2.3, Enterprise JavaBeans (EJB) 3.2, Contexts and Dependency Injection (CDI) 2.0, the Java API for WebSockets, JAX-RS 2.1, Servlet 4.0, and more.
The book begins by introducing you to Java EE 8 application development and goes on to cover all the major Java EE 8 APIs. It goes beyond the basics to develop Java EE applications that can be deployed to any Java EE 8 compliant application server. It also introduces advanced topics such as JSON-P and JSON-B, the Java APIs for JSON processing, and the Java API for JSON binding. These topics dive deep, explaining how the two APIs (the Model API and the Streaming API) are used to process JSON data.
Moving on, we cover additional Java EE APIs, such as the Java API for Websocket and the Java Message Service (JMS), which allows loosely coupled, asynchronous communication. Further on, you'll discover ways to secure Java EE applications by taking advantage of the new Java EE Security API. Finally, you'll learn more about the RESTful web service development using the latest JAX-RS 2.1 specification. You'll also get to know techniques to develop cloud-ready microservices in Java EE.
Style and approachThe book takes a pragmatic approach, showing you various techniques to utilize new features of Java EE 8 specification. It is packed with

clear, step-by-step instructions, practical examples, and straightforward explanations.

If you are a Java developer who wants to learn about Java EE, this is the book for you. It's also ideal for developers who already have experience with the Java EE platform but would like to learn more about the new Java EE 7 features by analyzing fully functional sample applications using the new application server WildFly.

Create Next-Generation Enterprise Applications Build and distribute business web applications that target both desktop and mobile devices. Cowritten by Java EE and NetBeans IDE experts, Java EE and HTML5 Enterprise Application Development fully explains cutting-edge, highly responsive design tools and strategies. Find out how to navigate NetBeans IDE, construct HTML5 programs, employ JavaScript APIs, integrate CSS and WebSockets, and handle security. This Oracle Press guide also offers practical coverage of SaaS, MVVM, and RESTful concepts. Explore HTML5 and Java EE 7 features Use NetBeans IDE editors, templates, and code generators Implement MVVM functionality with Knockout.js Dynamically map database objects using Java Persistence API Configure, manage, and invoke RESTful Web Services Maximize messaging efficiency through WebSockets Accept and process HTML5 Server-Sent Events streams Employ Syntactically Awesome Stylesheets, CSS3, and Sassy CSS

A hands-on practical guide disclosing all areas of Java EE 8 development on the newest WildFly application server. Covers everything from the foundation components (EJB, Servlets, CDI, JPA) to the new technology stack defined in Java Enterprise Edition 7 hence including the new Batch API, JSON-P Api, the Concurrency API, Web Sockets, the JMS 2.0 API, the core Web services stack (JAX-WS, JAX-RS). The testing area with Arquillian framework and the Security API complete the list of topics discussed in the book.

Sams Teach Yourself Java in 21 Days Covering Java 7 and Android App Development Sams Teach Yourself Java in 21 Days continues to be one of the most popular, best-selling Java tutorials on the market. Written by an expert technical writer, it has been acclaimed for its clear and personable writing, for its extensive use of examples, and for its logical and complete organization. The sixth edition of Sams Teach Yourself Java in 21 Days adds coverage of Java 7 and places a special emphasis on Android programming, capitalizing on the fastest-growing area of Java programming. There will be a new chapter on Android development and additional material where appropriate throughout the book. This edition also includes new material on using NetBeans, the free integrated IDE for Java. No previous programming experience required. By following the 21 carefully organized lessons in this book, anyone can learn the basics of Java programming. Learn at your own pace. You can work through each chapter sequentially to make sure you thoroughly understand all the concepts and methodologies, or you can focus on specific lessons to learn the techniques that interest you most. ¿ Test your knowledge. Each chapter ends with a Workshop section filled with questions, answers, and exercises for further

study. There are even certification practice questions. Completely revised, updated, and expanded to cover the latest features of Java 7 Learn to develop standalone Java applications, Android apps, and Java Web Start applications Easy-to-understand, practical examples clearly illustrate the fundamentals of Java programming Discover how Swing can help you quickly develop programs with a graphical user interface Find out about JDBC 4.1 programming with the Java DB database and XML parsing with the open source XOM class library Covers new features of Java 7 such as improved try-catch exception handling, the new switch, and Nimbus look and feel

Annotation NetBeans has several features that greatly simplify Java EE development, but with many features and great flexibility, Java developers can become overwhelmed by the options available in NetBeans. This book provides step-by-step recipes that show you how to take control of the environment and make use of these features to make your enterprise Java application development more efficient and productive than ever before, so that you can concentrate on the important parts of your application. Java EE 6 Development with NetBeans 7 takes you through the most important parts of Java EE programming and shows you how to use the features of NetBeans that will improve your development experience with clear, careful instructions and screenshots. It will show you how to use NetBeans functionality to automate many of the tedious or repetitive tasks frequently encountered when developing enterprise Java applications, freeing you up to focus on the business logic specific parts of the application. As well as showing you time-saving tricks, keyboard shortcuts, and other productivity enhancements possible with NetBeans, it will take you through the major Java EE APIs and how to get them working in the NetBeans environment. While focusing on NetBeans features, you will learn about developing applications using the servlet API and JSPs, including taking advantage of JSTL and developing custom JSP tags. Developing applications that take advantage of JavaServer Faces is also covered in detail, including how to generate standard JSF applications from an existing database schema. The book also covers how to easily develop elegant JSF applications by taking advantage of the PrimeFaces JSF 2.0 component library that is bundled with NetBeans. A practical guide covering how to leverage NetBeans 7 functionality to develop enterprise applications compliant with the Java EE 6 standard What you will learn from this book : Develop Java web applications by leveraging NetBeans functionality Build standard JSF applications by taking advantage of NetBeans features Integrate NetBeans with third-party RDBMS Develop JavaServer Pages (JSPs) to display both static and dynamic content in a web browser Develop aesthetically pleasing JSF web applications by leveraging the PrimeFaces JSF 2.0 component library Quickly and easily develop applications taking advantage of the Java Persistence API Implement the Model-View-Controller design pattern by using JavaBeans as the model component Take advantage of NetBeans functionality to easily develop Enterprise JavaBeans, including configuring transaction management via annotations Use static and dynamic navigation

to define navigation between pages Utilize NetBeans to easily add messaging functionality to enterprise applications, through the Java Messaging Service API and through message-driven EJBs Develop SOAP-based and RESTful web services using NetBeans, including exposing EJB functionality as web services Approach The book is a practical guide explaining the various features of the NetBeans IDE related to enterprise application development. Who this book is written for The book is aimed at Java developers who wish to develop Java EE applications while taking advantage of NetBeans functionality to automate repetitive tasks and to ease their software development efforts. Familiarity with NetBeans or Java EE is not assumed.

Your one stop solution to create highly scalable enterprise grade Java applications with WildFly. About This Book Master Java EE development with the latest WildFly 10 application server. Integrate with JSF and JMS and use efficient load balancing techniques to create real-time apps Integrate your backend JavaScript code seamlessly into Java applications Who This Book Is For If you are a Java developer with at least basic knowledge of Java EE, then this book is for you. No previous knowledge of WildFly is required. What You Will Learn Configure the development environment along with native and cloud installation of WildFly Write a DB schema and the relative entities and how to use the relationships between the entities Analyze with examples all the java annotations to manage the EJB and the configuration to get better performances Write different REST services through the EJB Implement Web sockets 1.0 and know why and when use the web sockets Work with Active MQ and write JMS clients to manage the authentication and authorization in the clients Configure the mail server through the wildfly console Learn how and when to use a new feature JAX-RS 2.0, which is the asynchronous call through REST Use the new JSF features of Wildfly 10 such as Mojarra 2.2, JSF 2.2, Richfaces 4.5 In Detail Packed with rich assets and APIs, Wildfly 10 allows you to create state-of-the-art Java applications. This book will help you take your understanding of Java EE to the next level by creating distributed Java applications using Wildfly. The book begins by showing how to get started with a native installation of WildFly and it ends with a cloud installation. After setting up the development environment, you will implement and work with different WildFly features, such as implementing JavaServer Pages. You will also learn how you can use clustering so that your apps can handle a high volume of data traffic. You will also work with enterprise JavaBeans, solve issues related to failover, and implement Java Message Service integration. Moving ahead, you will be working with Java Naming and Directory Interface, Java Transaction API, and use ActiveMQ for message relay and message querying. This book will also show you how you can use your existing backend JavaScript code in your application. By the end of the book, you'll have gained the knowledge to implement the latest Wildfly features in your Java applications. Style and approach Each part of this book shows you how to use different features of WildFly 10 to create enterprise grade Java applications as easily as

possible.

This book will kick-start your productivity and help you to master JBoss AS development. The author's experience with JBoss enables him to share insights on JBoss AS development in a clear and friendly way. By the end of the book, you will have the confidence to apply all the newest programming techniques to your JBoss applications. If you are a Java architect or developer who wants to get the most out of the latest release of the JBoss application server, then this book is for you. You are not expected to have accumulated experience on the application server though you must know the basic concepts of Java EE.

Java EE 7 Recipes takes an example-based approach in showing how to program Enterprise Java applications in many different scenarios. Be it a small-business web application, or an enterprise database application, Java EE 7 Recipes provides effective and proven solutions to accomplish just about any task that you may encounter. You can feel confident using the reliable solutions that are demonstrated in this book in your personal or corporate environment. The solutions in Java EE 7 Recipes are built using the most current Java Enterprise specifications, including EJB 3.2, JSF 2.2, Expression Language 3.0, Servlet 3.1, and JMS 2.0. While older technologies and frameworks exist, it is important to be forward-looking and take advantage of all that the latest technologies offer. Rejuvenate your Java expertise to use the freshest capabilities, or perhaps learn Java Enterprise development for the first time and discover one of the most widely used and most powerful platforms available for application development today. Let Java EE 7 Recipes show you the way by showing how to build streamlined and reliable applications much faster and easier than ever before by making effective use of the latest frameworks and features on offer in the Java EE 7 release. Shows off the most current Java Enterprise Edition technologies. Provides solutions to creating sophisticated user interfaces. Demonstrates proven solutions for effective database access. Table of Contents Introduction to Servlets JavaServer Pages The Basics of JavaServer Faces Facelets JavaServer Faces Standard Components Advanced JavaServer Faces and Ajax JDBC Object-Relational Mapping Enterprise JavaBeans The Query API and JPQL Oracle's Glassfish Contexts and Dependency Injection Java Message Service Authentication and Security Java Web Services Enterprise Solutions Using Alternative Programming Languages WebSockets and JSON-P JavaFX in the Enterprise Concurrency and Batch Applications

The book is a practical guide explaining the various features of the NetBeans IDE related to enterprise application development. The book is aimed at Java developers who wish to develop Java EE applications while taking advantage of NetBeans functionality to automate repetitive tasks and to ease their software development efforts. Familiarity with NetBeans or Java EE is not assumed. This IBM® Redbooks® publication gives a broad understanding of IBM IMSTM integration and connectivity solutions to access applications and data stores across your enterprise architecture. As an application developer, architect, systems integrator, or systems programmer, there is important information that is available in this book that pertains to your responsibilities to continue to include the proven performance, data integrity, and workload distribution that is available from IMS in to selected projects that are related to your entire enterprise. This book updates and adds to the information in the following IBM Redbooks publications: IMS e-business Connectors: A Guide to IMS Connectivity, SG24-6514 IMS Connectivity in an On Demand Environment: A Practical

Guide to IMS Connectivity, SG24-6794 Powering SOA Solutions with IMS, SG24-7662 IBM IMS Version 12 Technical Overview, SG24-7972 IMS 12: The IMS Catalog, REDP-4812 Rethink Your Mainframe Applications: Reasons and Approaches for Extension, Transformation, and Growth, REDP-4938

This book is step-by-step tutorial guide and a background reference for developing applications with Oracle WebLogic Server and Oracle database, the most used application server and database for enterprise applications. This book is for professional Java EE developers. The book is also suitable for an intermediate/advanced course in Java development with Eclipse IDE. Some knowledge of the Java EE technologies and frameworks EJB, JSF, JAXB, JAX-WS, JAX-RS, Ajax, and Spring is required. *Introducing Java EE 7: A Look at What's New* guides you through the new features and enhancements in each of the technologies comprising the Java EE platform. Readers of this book will not have to wade through introductory material or information covering features that have been part of the EE platform for years. Instead, developers can pick this book up and read it to brush up on those features that have changed or have been added for the EE 7 release. This handy reference helps you move forward from Java EE 6 to the new EE 7 platform quickly and easily. Java is a mature programming language that has been refined over the years into a productive language widely used in enterprise application development. Although the language contains frameworks and methodologies that have been used for years, it is important to make use of the most current features available in the language in order to achieve the best results. *Introducing Java EE 7: A Look at What's New* covers the solutions using the most current Java Enterprise technologies, including EJB 3.2, JSF 2.2, and JAX-RS 2.0. Build a streamlined and reliable application that uses the latest in Java technologies, and develop it much faster than you did with the older technologies. Rejuvenate your Java expertise to use the freshest capabilities, or perhaps learn Java Enterprise development for the first time and discover one of the most widely used and most powerful technologies available for application development today. Get up and running quickly with the new features of EE 7! Designed to get you up and running quickly with the newly released Java EE 7 Includes real world examples of how to use new and updated features. Demonstrates the latest productivity enhancements in the platform

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.

The Java EE 7 Tutorial: Volume 1, Fifth Edition, is a task-oriented, example-driven guide to developing enterprise applications for the Java Platform, Enterprise Edition 7 (Java EE 7). Written by members of the Java EE documentation team at Oracle, this book provides new and intermediate Java programmers with a deep understanding of the platform. This guide includes descriptions of platform features and provides instructions for using the latest versions of NetBeans IDE and GlassFish Server Open Source Edition. The book introduces platform basics, including resource creation, resource injection, and packaging. It covers JavaServer Faces, Java Servlets, the Java API for WebSocket, the Java API for JSON Processing (JSON-P), internationalization and localization, Bean Validation, Contexts and Dependency Injection for Java EE (CDI), and web services (JAX-WS and JAX-RS). Develop powerful, standards-based, back-end business logic with Beginning EJB 3, Java EE 7 Edition. Led by an author team with 20 years of combined Enterprise JavaBeans experience, you'll learn how to use the new EJB 3.2 APIs. You'll gain the knowledge and skills you'll need to create the complex enterprise applications that run today's transactions and more. Targeted at Java and Java EE developers, with and without prior EJB experience, Beginning EJB 3 is packed with practical insights, strategy tips, and code examples. As each chapter unfolds, you'll not only explore a new area of the spec; you'll also see how you can apply it to your own applications through specific examples. Beginning EJB 3 will serve not only as a reference, but it will also function as a how-to guide and repository of practical examples to which you can refer as you build your own applications. It will help you harness the power of EJBs and take your Java EE 7 development to the next level.

Develop, debug, test, and troubleshoot Java EE 7 applications rapidly with Eclipse About This Book- Go beyond simply learning Java EE APIs and explore the complete workflow of developing enterprise Java applications- Learn to use the features of Eclipse JEE to simplify Java EE application development- Develop and deploy complete applications with JEE Who This Book Is For If you are a Java developer who has little or no experience in JEE application development or you have experience in JEE technology but are looking for tips to simplify and accelerate your development process, then this book is for you. What You Will Learn- Set up Eclipse, Tomcat, and Glassfish server for JEE application development- Use JSP, Servlet, JSF, and EJBs to create a user interface and write business logic- Create JEE database applications using JDBC and JPA- Handle asynchronous messages using MDBs for better scalability- Deploy and debug JEE applications and create SOAP and REST web services- Write unit tests and calculate code coverage- Troubleshoot application performance and memory issues In

DetailJava EE is a technology for developing enterprise class, scalable applications. With recent changes to Java EE specifications, JEE application development has become a lot simpler. However, recent changes have also added many new specifications, some of which compete with existing JEE specification. Along with JEE specifications and APIs, it is also very important to understand the entire application development process and tools that can help simplify and accelerate JEE application development. This guide provides a complete overview of developing JEE applications using Eclipse. The many features of the Eclipse IDE are explained. These enable the rapid development, debugging, testing, and deployment of JEE applications. You'll explore not just different JEE technologies and how to use them (JSP, JSF, JPA, JDBC, EJB, web services etc.), but also suitable technologies for different scenarios. The book starts with how to set up the development environment for JEE applications and then goes on to describe many JEE specifications in detail, with an emphasis on examples. You'll learn how to deploy an example application on Tomcat and Glassfish Application Server. You'll create a simple application that reads from a queue, processes the request, and publishes results to a topic and Eclipse MAT (Memory Analysis Tool) to debug memory issues. Style and approach This guide takes a step-by-step approach to developing, testing, debugging, and troubleshooting JEE applications, complete with examples and tips.

Your one-stop guide to developing Java(r) EE applications with the Eclipse IDE, Maven, and WildFly(r) 8.1 About This Book Develop Java EE 7 applications using the WildFly platform Discover how to use EJB 3.x, JSF 2.x, Ajax, JAX-RS, JAX-WS, and Spring with WildFly 8.1 A practical guide filled with easy-to-understand programming examples to help you gain hands-on experience with Java EE development using WildFly Who This Book Is For This book is for professional WildFly developers. If you are already using JBoss or WildFly but don't use the Eclipse IDE and Maven for development, this book will show you how the Eclipse IDE and Maven facilitate the development of Java EE applications with WildFly 8.1. This book does not provide a beginner-level introduction to Java EE as it is written as an intermediate/advanced course in Java EE development with WildFly 8.1. In Detail This book starts with an introduction to EJB 3 and how to set up the environment, including the configuration of a MySQL database for use with WildFly. We will then develop object-relational mapping with Hibernate 4, build and package the application with Maven, and then deploy it in WildFly 8.1, followed by a demonstration of the use of Facelets in a web application. Moving on from that, we will create an Ajax application in the Eclipse IDE, compile and package it using Maven, and run the web application on WildFly 8.1 with a MySQL database. In the final leg of this book, we will discuss support for generating and parsing JSON with WildFly 8.1."

Use Java features such as JAX-RS, EJBs, and JPAs to build powerful middleware for newer architectures such as the cloud Key Features Explore EJBs to build middleware solutions for enterprise and distributed applications Understand middleware designs such as event-based and message-driven web services Learn to design and maintain large-scale systems and vendor disputes Book Description Middleware is the infrastructure in software based applications that enables businesses to solve problems, operate more efficiently, and make money. As the use of middleware extends beyond a single application, the importance of having it written by experts increases substantially. This book will help you become an expert in developing middleware for a variety of applications. The book starts off by exploring the latest Java EE 8 APIs with newer features and managing dependencies with CDI 2.0. You will learn to implement object-to-relational mapping using JPA 2.1 and validate data using bean validation. You will also work with different types of EJB to develop business logic, and with design RESTful APIs by utilizing different HTTP methods and activating JAX-RS features in enterprise applications. You will learn to secure your middleware with Java Security 1.0 and implement various authentication techniques, such as OAuth authentication. In the concluding chapters, you will use

various test technologies, such as JUnit and Mockito, to test applications, and Docker to deploy your enterprise applications. By the end of the book, you will be proficient in developing robust, effective, and distributed middleware for your business. What you will learn Implement the latest Java EE 8 APIs and manage dependencies with CDI 2.0 Perform CRUD operations and access databases with JPA 2.1 Use bean validation API 2.0 to validate data Develop business logic with EJB 3.2 Incorporate the REST architecture and RESTful API design patterns Perform serialization and deserialization on JSON documents using JSON-B Utilize JMS for messaging and queuing models and securing applications Test applications using JUnit and Mockito and deploy them using Docker Who this book is for Enterprise architects, designers, developers, and programmers who are interested in learning how to build robust middleware solutions for enterprise software will find this book useful. Prior knowledge of Java EE is essential

Java EE 7 Recipes takes an example-based approach in showing how to program Enterprise Java applications in many different scenarios. Be it a small-business web application, or an enterprise database application, Java EE 7 Recipes provides effective and proven solutions to accomplish just about any task that you may encounter. You can feel confident using the reliable solutions that are demonstrated in this book in your personal or corporate environment. The solutions in Java EE 7 Recipes are built using the most current Java Enterprise specifications, including EJB 3.2, JSF 2.2, Expression Language 3.0, Servlet 3.1, and JMS 2.0. While older technologies and frameworks exist, it is important to be forward-looking and take advantage of all that the latest technologies offer. Rejuvenate your Java expertise to use the freshest capabilities, or perhaps learn Java Enterprise development for the first time and discover one of the most widely used and most powerful platforms available for application development today. Let Java EE 7 Recipes show you the way by showing how to build streamlined and reliable applications much faster and easier than ever before by making effective use of the latest frameworks and features on offer in the Java EE 7 release. Shows off the most current Java Enterprise Edition technologies. Provides solutions to creating sophisticated user interfaces. Demonstrates proven solutions for effective database access.

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.

The Java Platform, Enterprise Edition (Java EE) is a collection of technologies and APIs for the Java platform designed to support large-scale, distributed, transactional, and highly available applications that support mission-critical business requirements. This Learning Path gives you a hands-on introduction to Java EE 7 and some of the most popular and useful APIs, tools, and services for building applications in Java EE. Prerequisites: Fundamental understanding of Java SE and object-oriented programming concepts.

Java EE 7 Handbook is an example based tutorial with descriptions and explanations."Java EE 7 Handbook" is for the developer, designer, and architect aiming to get acquainted with the Java EE platform in its newest edition. This guide will enhance your knowledge about the Java EE 7 platform. Whether you are a long-term Java EE (J2EE) developer or an intermediate level engineer on the JVM with just Java SE behind you, this handbook is for you, the new contemporary Java EE 7 developer!

Java Enterprise Edition (Java EE) continues to be one of the leading Java technologies and platforms. Beginning Java EE 7 is the first tutorial book on Java EE 7. Step by step and easy to follow, this book describes many of the Java EE 7 specifications and reference implementations, and shows them in action using practical examples. This definitive book also uses the newest version of GlassFish to deploy and administer the code examples. Written by an expert member of the Java EE specification request and review board in the Java Community Process (JCP), this book contains the best information possible, from an expert's perspective on enterprise Java technologies. What you'll learn Get started with the latest version of the Java EE Platform. Explore and use the EJB and JPA APIs from entities to session beans to message driven beans, and more. Discover web tier development APIs including JSF, Facelets and Expression Language. Uncover SOAP web services, RESTful web services, and more available in this latest Java EE. Create dynamic user interfaces for your enterprise and transactional Java applications. Who this book is for This book is for Java or Spring programmers with some experience and those new to Java EE platform. Architects will also find information about how to layer their Java EE applications. Table of Contents Java EE 7 Environment Context and Dependency Injection Bean Validation Java Persistence API Object-Relational Mapping Managing Persistent Object Enterprise Java Beans Callbacks, Timer Service, and Authorization Interceptors and Transactions JavaServer Faces Processing and Navigation XML and JSON Messaging SOAP Web Services RESTful Web Service

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Develop Enterprise Java applications compliant with the latest version of the Java EE specification About This Book This book covers all of the major Java EE 8 APIs and includes new additions such as enhanced Security, JSON-B Processing, and more Learn additional Java EE APIs, such as the Java API for WebSocket and the Java Message Service (JMS) Develop applications by taking advantage of the latest versions of CDI, Security, Servlets, and JSF and other Java EE specifications Who This Book Is For If you are a Java developer who wants to become proficient with Java EE 8, this book is ideal for you. You are expected to have some experience with Java and to have developed and deployed applications in the past, but you don't need any previous knowledge of Java EE. What You Will Learn Develop and deploy Java EE applications Embrace the latest additions to the Contexts and Dependency Injection (CDI) specification to develop Java EE applications Develop web-based applications by utilizing the latest version of JavaServer Faces, JSF 2.3. Understand the steps needed to process JSON data with JSON-P and the new JSON-B Java EE API Implement RESTful web services using the new JAX-RS 2.1 API, which also includes support for

Server-Sent Events (SSE) and the new reactive client API In Detail Java EE is an Enterprise Java standard. Applications written to comply with the Java EE specification do not tie developers to a specific vendor; instead they can be deployed to any Java EE compliant application server. With this book, you'll get all the tools and techniques you need to build robust and scalable applications in Java EE 8. This book covers all the major Java EE 8 APIs including JSF 2.3, Enterprise JavaBeans (EJB) 3.2, Contexts and Dependency Injection (CDI) 2.0, the Java API for WebSockets, JAX-RS 2.1, Servlet 4.0, and more. The book begins by introducing you to Java EE 8 application development and goes on to cover all the major Java EE 8 APIs. It goes beyond the basics to develop Java EE applications that can be deployed to any Java EE 8 compliant application server. It also introduces advanced topics such as JSON-P and JSON-B, the Java APIs for JSON processing, and the Java API for JSON binding. These topics dive deep, explaining how the two APIs (the Model API and the Streaming API) are used to process JSON data. Moving on, we cover additional Java EE APIs, such as the Java API for Websocket and the Java Message Service (JMS), which allows loosely coupled, asynchronous communication. Further on, you'll discover ways to secure Java EE applications by taking advantage of the new Java EE Security API. Finally, you'll learn more about the RESTful web service development using the latest JAX-RS 2.1 specification. You'll also get to know techniques to develop cloud-ready microservices in Java EE. Style and approach The book takes a pragmatic approach, showing you various techniques to utilize new features of Java EE 8 specification. It is packed with clear, step-by-step instructions, practical examples, and straightforward explanations.

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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.

When you need quick answers for developing or debugging Java programs, this pocket guide provides a handy reference to the standard features of the Java programming language and its platform. You'll find helpful programming examples, tables, figures, and lists, as well as supplemental information about topics including the Java Scripting API, third-party tools, and the basics of the Unified Modeling Language (UML). Updated for new features through Java SE 7, this little book is an ideal companion, whether you're in the office, in the lab, or on the road. Quickly find Java language details, such as naming conventions, fundamental types, and object-oriented programming elements Get details on the Java SE 7 platform, including development basics, memory management, concurrency, and generics Browse through basic information on NIO 2.0, the G1 Garbage Collector, and Project Coin (JSR-334) features Get supplemental references to development, CM, and test tools; libraries; IDEs; and Java-related scripting languages Find information to help you prepare for the Oracle Certified Associate Java SE 7 Programmer I exam This book is a practical guide and follows a very userfriendly approach. The book aims to get the reader up to speed in Java EE 7 development. All major Java EE 7 APIs and the details of the GlassFish 4 server are covered followed by examples of their use.If you are a Java developers who wants to become proficient with Java EE 7 this book is ideal for you. Readers are expected to have some experience with Java and to have developed and deployed applications in the past, but don't need any previous knowledge of Java EE or J2EE. It teaches the reader how to use GlassFish 4 to develop and deploy applications.

If you are a Java programmer who wants to learn about the fundamental tasks underlying natural language processing, this book is for you. You will be able to identify and use NLP tasks for many common problems, and integrate them in your applications to solve more difficult problems. Readers should be familiar/experienced with Java software development.

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.

An easy-to-follow guide to reveal the new features of Java EE 7 and how to efficiently utilize them. Given the main objectives pursued, this book targets three groups of people with a knowledge of the Java language. They are: Beginners in the Java EE platform who would like to have an idea about the main specifications of Java EE 7. Developers who have experimented with previous versions of Java EE and who would like to explore the new features of Java EE 7. Building architects who want to learn how to put together the various Java EE 7 specifications for building robust and secure enterprise applications

This book guides you through the new features and enhancements in each of the technologies comprising the Java EE platform. It appeals to a large base of Java EE 6 programmers who are highly motivated to migrate to the newly-released, Java EE 7 platform. Get up to speed on the principal technologies in the Java Platform, Enterprise Edition 7, and learn how the latest version embraces HTML5, focuses on higher productivity, and provides functionality to meet enterprise demands. Written by Arun Gupta, a key member of the Java EE team, this book provides a chapter-by-chapter survey of several Java EE 7 specifications, including WebSockets, Batch Processing, RESTful Web Services, and Java Message Service. You'll also get self-paced instructions for building an end-to-end application with many of the technologies described in the book, which will help you understand the design patterns vital to Java EE development. Understand the key components of the Java EE platform, with easy-to-understand explanations and extensive code samples Examine all the new components that have been added to Java EE 7 platform, such as WebSockets, JSON, Batch, and Concurrency Learn about RESTful Web Services, SOAP XML-based messaging protocol, and Java Message Service Explore Enterprise JavaBeans, Contexts and Dependency Injection, and the Java Persistence API Discover how different components were updated from Java EE 6 to Java EE 7

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