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# Beginning Database-Driven Application Development in **Java™ EE** Using **GlassFish™**

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# Beginning Database Driven Application Development In Java Ee Using Glassfish

**Antonio Goncalves**



## **Beginning Database Driven Application Development In Java Ee Using Glassfish:**

*Beginning Database-Driven Application Development in Java EE* Yuli Vasiliev, 2009-04-21 Beginning Database Driven Application Development in Java™ EE Using GlassFish™ focuses on the open source GlassFish persistence engine This book shows Java programmers how to develop applications utilizing relational database technologies with examples using Oracle and MySQL and the GlassFish application development framework and deployment platform all based on Java EE The book explains in detail how you can organize your Java EE solution into a multilayer architecture placing most emphasis on how to implement the persistence and database tiers of an application Through many examples this book shows how you can efficiently use the Java Persistence features available in the Java EE platform Find out how you can greatly simplify the task of building the persistence layer of your Java EE application by moving some application logic into the underlying database utilizing database views stored programs and triggers The book also explains how to deploy Java EE applications to GlassFish a free open source Java EE 5 compliant application server      **GlassFish Administration** Xuekun Kou, 2009-12-15

Administer and configure the GlassFish v2 application server      *Efficient Decision Support Systems* Chiang Jao, 2011-09-09 This series is directed to diverse managerial professionals who are leading the transformation of individual domains by using expert information and domain knowledge to drive decision support systems DSSs The series offers a broad range of subjects addressed in specific areas such as health care business management banking agriculture environmental improvement natural resource and spatial management aviation administration and hybrid applications of information technology aimed to interdisciplinary issues This book series is composed of three volumes Volume 1 consists of general concepts and methodology of DSSs Volume 2 consists of applications of DSSs in the biomedical domain Volume 3 consists of hybrid applications of DSSs in multidisciplinary domains The book is shaped upon decision support strategies in the new infrastructure that assists the readers in full use of the creative technology to manipulate input data and to transform information into useful decisions for decision makers      Beginning EJB 3 Application Development Raghu Kodali, Jonathan

Wetherbee, Peter Zadrozny, 2007-02-01 This book takes the reader through the details of the EJB 3.0 architecture and shows how EJB can be used to develop powerful standards based backend business logic It offers practical insights into the entire EJB architecture covering all areas of the EJB 3.0 specification including its new persistence framework simplified development model and other key new features In addition it covers upgrade headaches common issues encountered when migrating from EJB 2.1 to EJB 3.0 highly relevant to existing EJB developers The book is designed to be the first and only comprehensive beginning or introductory EJB 3 book to market      **Beginning EJB in Java EE 8** Jonathan

Wetherbee, Massimo Nardone, Chirag Rathod, Raghu Kodali, 2018-05-25 Build powerful back end business logic and complex Enterprise JavaBeans EJB based applications using Java EE 8 Eclipse Enterprise for Java EE4J Web Tools Project WTP and the Microprofile platform Targeted at Java and Java EE developers with or without prior EJB experience this book is packed

with practical insights strategy tips and code examples As each chapter unfolds you ll see how you can apply the new EJB spec to your own applications through specific examples Beginning EJB in Java EE 8 serves not only as a reference but also 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 8 development to the next level You ll gain the knowledge and skills you ll need to create the complex enterprise applications that run today s transactions and more What You ll Learn Build applications with Enterprise JavaBeans EJBs in the new Java EE 8 platform Discover when to use EJBs over contexts and dependency injection Use message driven beans to do tasks asynchronously Integrate EJBs with microservices using the new Eclipse Microprofile project Manage complex enterprise transactions and much more Who This Book Is For Java programmers new to enterprise development and for those who may have experience with EJBs but are new to Java EE 8 EE4J and related Eclipse projects

*Java EE 8 Development with Eclipse* Ram Kulkarni,2018-06-29 Develop and deploy fully functional applications and microservices utilising Tomcat Glassfish servers Cloud and docker in Java EE 8 Key Features Explore the complete workflow of developing enterprise Java applications Develop microservices with Docker Container and deploy it in cloud Simplify Java EE application development Book Description Java EE is one of the most popular tools for enterprise application design and development With recent changes to Java EE 8 specifications Java EE application development has become a lot simpler with the new specifications some of which compete with the existing specifications This guide provides a complete overview of developing highly performant robust and secure enterprise applications with Java EE with Eclipse The book begins by exploring different Java EE technologies and how to use them JSP JSF JPA JDBC EJB and more along with suitable technologies for different scenarios You will learn how to set up the development environment for Java EE applications and understand Java EE specifications in detail with an emphasis on examples The book takes you through deployment of an application in Tomcat GlassFish Servers and also in the cloud It goes beyond the basics and covers topics like debugging testing deployment and securing your Java EE applications You ll also get to know techniques to develop cloud ready microservices in Java EE What you will learn Set up Eclipse Tomcat and Glassfish servers for Java EE application development Use JSP Servlet JSF and EJBs to create a user interface and write business logic Create Java EE database applications using JDBC and JPA Handle asynchronous messages using MDBs for better scalability Deploy and debug Java EE applications and create SOAP and REST web services Write unit tests and calculate code coverage Use Eclipse MAT Memory Analysis Tool to debug memory issues Create and deploy microservices Who this book is for If you are a Java developer with little or no experience in Java EE application development or if you have experience in Java EE technology but are looking for tips to simplify and accelerate your development process then this book is for you

*Java EE 8 Application Development* David R. Heffelfinger,2017-12-12 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

**Beginning Java EE 7** Antonio

Goncalves,2013-06-25 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

*Practical Database Programming with Java* Ying Bai, 2011-09-09 Covers fundamental and advanced Java database programming techniques for beginning and experienced readers This book covers the practical considerations and applications in database programming using Java NetBeans IDE JavaServer Pages JavaServer Faces and Java Beans and comes complete with authentic examples and detailed explanations Two data action methods are developed and presented in this important resource With Java Persistence API and plug in Tools readers are directed step by step through the entire database programming development process and will be able to design and build professional data action projects with a few lines of code in mere minutes The second method runtime object allows readers to design and build more sophisticated and practical Java database applications Advanced and updated Java database programming techniques such as Java Enterprise Edition development kits Enterprise Java Beans JavaServer Pages JavaServer Faces Java RowSet Object and Java Updatable ResultSet are also discussed and implemented with numerous example projects Ideal for classroom and professional training use this text also features A detailed introduction to NetBeans Integrated Development Environment Java web based database programming techniques web applications and web services More than thirty detailed real life sample projects analyzed via line by line illustrations Problems and solutions for each chapter A wealth of supplemental material available for download from the book's ftp site including PowerPoint slides solution manual JSP pages sample image files and sample databases Coverage of two popular database systems SQL Server 2008 and Oracle This book provides undergraduate and graduate students as well as database programmers and software engineers with the necessary tools to handle the database programming issues in the Java NetBeans environment To obtain instructor materials please send an email to [pressbooks@ieee.org](mailto:pressbooks@ieee.org)

**Java Programming** Yakov Fain, 2015-06-04 Quick and painless Java programming with expert multimedia instruction Java Programming 24 Hour Trainer 2nd Edition is your complete beginner's guide to the Java programming language with easy to follow lessons and supplemental exercises that help you get up and running quickly Step by step instruction walks you through the basics of object oriented programming syntax interfaces and more before building upon your skills to develop games web apps networks and automations This second edition has been updated to align with Java SE

8 and Java EE 7 and includes new information on GUI basics lambda expressions streaming API WebSockets and Gradle Even if you have no programming experience at all the more than six hours of Java programming screencasts will demonstrate major concepts and procedures in a way that facilitates learning and promotes a better understanding of the development process This is your quick and painless guide to mastering Java whether you re starting from scratch or just looking to expand your skill set Master the building blocks that go into any Java project Make writing code easier with the Eclipse tools Learn to connect Java applications to databases Design and build graphical user interfaces and web applications Learn to develop GUIs with JavaFX If you want to start programming quickly Java Programming 24 Hour Trainer 2nd Edition is your ideal solution

*Service Life Cycle Tools and Technologies: Methods, Trends and Advances* Lee, Jonathan, Ma, Shang-Pin, Liu, Alan, 2011-11-30 As Service Oriented Computing SOC gains a wider global acceptance the need for understanding its life cycle becomes inevitable not only for developers but also for users Service Life Cycle Tools and Technologies Methods Trends and Advances compiles the latest research on SOC life cycles detailing methodologies and applications in this emerging field The development of service oriented applications not only depends on constructing service providers but also composition and delivery Service requesters service providers and developers alike will benefit from the views and models in a service life cycle This volume offers research that has been conducted in both industry and academia to address issues in the SOC domain including service discovery service composition and service management It serves as a vital reference for those on either side of the service field

**Oracle Database Programming with Java** Ying

Bai, 2022-08-08 Databases have become an integral part of modern life Today s society is an information driven society and database technology has a direct impact on all aspects of daily life Decisions are routinely made by organizations based on the information collected and stored in databases Database management systems such as Oracle are crucial to apply data in industrial or commercial systems Equally crucial is a graphical user interface GUI to enable users to access and manipulate data in databases The Apache NetBeans IDE with Java is an ideal candidate for developing a GUI with programming functionality Oracle Database Programming with Java Ideas Designs and Implementations is written for college students and software programmers who want to develop practical and commercial database programming with Java and relational databases such as Oracle Database XE 18c The book details practical considerations and applications of database programming with Java and is filled with authentic examples as well as detailed explanations Advanced topics in Java Web like Java Web Applications and Java Web Services are covered in real project examples to show how to handle the database programming issues in the Apache NetBeans IDE environment This book features A real sample database CSE \_ DEPT which is built with Oracle SQL Developer provided and used throughout the book Step by step detailed illustrations and descriptions of how to design and build a practical relational database Fundamental and advanced Java database programming techniques practical to both beginning students and experienced programmers Updated Java desktop and Web

database programming techniques such as Java Enterprise Edition 7 JavaServer Pages JavaServer Faces Enterprise Java Beans Web applications and Web services including GlassFish and Tomcat Web servers More than 30 real database programming projects with detailed illustrations Actual JDBC APIs and JDBC drivers along with code explanations Homework and selected solutions for each chapter to strengthen and improve students learning and understanding of the topics they have studied

**Java EE 7 Recipes** Josh Juneau, 2013-05-21 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

*Encyclopedia of Cloud Computing* San Murugesan, Irena Bojanova, 2016-08-01 The Encyclopedia of Cloud Computing provides IT professionals educators researchers and students with a compendium of cloud computing knowledge Authored by a spectrum of subject matter experts in industry and academia this unique publication in a single volume covers a wide range of cloud computing topics including technological trends and developments research opportunities best practices standards and cloud adoption Providing multiple perspectives it also addresses questions that stakeholders might have in the context of development operation management and use of clouds Furthermore it examines cloud computing's impact now and in the future The encyclopedia presents 56 chapters logically organized into 10 sections Each chapter covers a major topic area with cross references to other chapters and contains tables illustrations side bars as appropriate Furthermore each chapter presents its summary at the beginning and backend material references and additional resources for further information

**Java EE 5**



**Development Using GlassFish Application Server** David R. Heffelfinger, 2007 This is a guide to developing Java EE 5 applications deployed to the high performance Java EE 5 compliant GlassFish application server which is quickly gaining massive popularity After GlassFish installation and configuration it covers application development including all major Java EE 5 APIs JSPs JSTL Servlets and JSF for web applications the Java Persistence API and JDBC to interact with RDBMS EJB 3 including container managed transactions and EJB declarative security through annotations the JMS API for messaging the JAAS API for secure applications frameworks built on the Java EE 5 specification including Seam Facelets and Ajax4jsf It is aimed at Java developers wishing to become proficient with Java EE 5 who are expected to have some experience with Java and J2EE technologies and to have developed and deployed applications in the past but need no previous knowledge of Java EE and will teach the reader how to use GlassFish to develop and deploy applications [Jakarta EE Application Development](#) David R. Heffelfinger, 2024-02-29 Learn Jakarta EE by building real world microservices with code examples practical exercises and the latest Jakarta EE features Key Features Craft microservices using standard Jakarta EE technologies such as Jakarta RESTful Web Services JSON Processing and JSON Binding Design web based applications with Jakarta Faces Harness Jakarta EE technologies such as Jakarta Enterprise Beans and Jakarta Messaging to build enterprise applications Purchase of the print or Kindle book includes a free PDF eBook Book Description Jakarta EE stands as a robust standard with multiple implementations presenting developers with a versatile toolkit for building enterprise applications However despite the advantages of enterprise application development vendor lock in remains a concern for many developers limiting flexibility and interoperability across diverse environments This Jakarta EE application development guide addresses the challenge of vendor lock in by offering comprehensive coverage of the major Jakarta EE APIs and goes beyond the basics to help you develop applications deployable on any Jakarta EE compliant runtime This book introduces you to JSON Processing and JSON Binding and shows you how the Model API and the Streaming API are used to process JSON data You ll then explore additional Jakarta EE APIs such as WebSocket and Messaging for loosely coupled asynchronous communication and discover ways to secure applications with the Jakarta EE Security API Finally you ll learn about Jakarta RESTful web service development and techniques to develop cloud ready microservices in Jakarta EE By the end of this book you ll have developed the skills to craft secure scalable and cloud native microservices that solve modern enterprise challenges What you will learn Design microservices architectures with a clear separation of concerns Understand the contexts and dependency injection CDI specification to develop Java EE applications Use Jakarta Faces to create interactive web applications using component based development Understand the steps involved in handling JSON data with Jakarta JSON Processing and Binding Design secure RESTful web services using server sent events SSE for real time data updates Secure your applications with the Jakarta Security API Build message driven applications with Jakarta Messaging Who this book is for This book is for Java developers looking to learn Jakarta EE and expand their skill set You ll also find this book

useful if you are familiar with Java EE and want to stay abreast of the latest version of the Jakarta EE specification Knowledge of core Java concepts such as OOP data types control flow and basic collections will be beneficial *Practical JRuby on Rails Web 2.0 Projects* Ola Bini,2007-12-01 In this book JRuby core developer Ola Bini covers everything you need to know to take full advantage of what JRuby has to offer It provides complete coverage on how to use JRuby to create web applications faster and more efficiently while continuing to take advantage of the vast power of the Java platform The book also provides several real world projects that illustrate the crucial specifics you need to know about the interaction of Java and Ruby In addition it offers helpful practical instruction and discussion on how web applications can be deployed using a variety of popular servers such as Apache and Mongrel **Enterprise Application Development with Ext JS and Spring** Gerald Gierer,2013-12-20 An easy to follow tutorial that breaks down the enterprise application development journey into easy to understand phases documented by clear examples and concise explanations If you are an intermediate developer with a good understanding of Java JavaScript and web development concepts this book is ideal for you Basic ExtJS development experience including an understanding of the framework APIs is needed by those of you who are interested in this book Regardless of your experience and background the practical examples provided in this book are written in a way that thoroughly covers each concept before moving on to the next chapter *The Java EE 7 Tutorial* Eric Jendrock,Ian Evans,Devika Gollapudi,Kim Haase,Chinmayee Srivathsa,Ricardo Cervera-Navarro,William Markito,2014-05-02 The Java EE 7 Tutorial Volume 2 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 Enterprise JavaBeans components the Java Persistence API the Java Message Service JMS API Java EE security transactions resource adapters Java EE Interceptors Batch Applications for the Java Platform and Concurrency Utilities for Java EE The book culminates with three case studies that illustrate the use of multiple Java EE 7 APIs **EJB 3 Developer Guide** Michael Sikora,2008-05-23 A Practical Book and eBook Guide for developers and architects using the EJB Standard

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