



# J2EE Design Patterns Applied

Real World Development with Pattern Frameworks

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# J2ee Design Patterns Applied

**James Goodwill, Richard Hightower**



## **J2ee Design Patterns Applied:**

*J2EE Design Patterns* William Crawford, Jonathan Kaplan, 2003-09-24 Architects of buildings and architects of software have more in common than most people think Both professions require attention to detail and both practitioners will see their work collapse around them if they make too many mistakes It s impossible to imagine a world in which buildings get built without blueprints but it s still common for software applications to be designed and built without blueprints or in this case design patterns A software design pattern can be identified as a recurring solution to a recurring problem Using design patterns for software development makes sense in the same way that architectural design patterns make sense if it works well in one place why not use it in another But developers have had enough of books that simply catalog design patterns without extending into new areas and books that are so theoretical that you can t actually do anything better after reading them than you could before you started Crawford and Kaplan s J2EE Design Patterns approaches the subject in a unique highly practical and pragmatic way Rather than simply present another catalog of design patterns the authors broaden the scope by discussing ways to choose design patterns when building an enterprise application from scratch looking closely at the real world tradeoffs that Java developers must weigh when architecting their applications Then they go on to show how to apply the patterns when writing realworld software They also extend design patterns into areas not covered in other books presenting original patterns for data modeling transaction process modeling and interoperability J2EE Design Patterns offers extensive coverage of the five problem areas enterprise developers face Maintenance Extensibility Performance System Scalability Data Modeling Business Object Modeling Transactions process Modeling Messaging Interoperability And with its careful balance between theory and practice J2EE Design Patterns will give developers new to the Java enterprise development arena a solid understanding of how to approach a wide variety of architectural and procedural problems and will give experienced J2EE pros an opportunity to extend and improve on their existing experience

**Core J2EE Patterns** Deepak Alur, John Crupi, Dan Malks, 2003 This is the completely updated and revised edition to the bestselling tutorial and reference to J2EE Patterns The book introduces new patterns new refactorings and new ways of using XML and J2EE Web services

Core J2EE patterns Deepak Alur, John Crupi, Dan Malks, 2003 The Java landscape is littered with libraries tools and specifications What s been lacking is the expertise to fuse them into solutions to real world problems These patterns are the intellectual mortar for J2EE software construction John Vlissides co author of Design Patterns the Gang of Four book The authors of Core J2EE Patterns have harvested a really useful set of patterns They show how to apply these patterns and how to refactor your system to take advantage of them It s just like having a team of experts sitting at your side Grady Booch Chief Scientist Rational Software Corporation The authors do a great job describing useful patterns for application architectures The section on refactoring is worth the price of the entire book Craig McClanahan Struts Lead Architect and Specification Lead for JavaServer Faces Core J2EE Patterns is the gospel that should accompany every J2EE application

server Built upon the in the trenches expertise of its veteran architect authors this volume unites the platform s many technologies and APIs in a way that application architects can use and provides insightful answers to the whys whens and hows of the J2EE platform Sean Neville JRun Enterprise Architect Macromedia Developers often confuse learning the technology with learning to design with the technology In this book senior architects from the Sun Java Center share their cumulative design experience on Java 2 Platform Enterprise Edition J2EE technology The primary focus of the book is on patterns best practices design strategies and proven solutions using the key J2EE technologies including JavaServer Pages TM JSP TM Servlets Enterprise JavaBeans TM EJB TM and Java TM Message Service JMS APIs The J2EE Pattern Catalog with 21 patterns and numerous strategies is presented to document and promote best practices for these technologies Core J2EE Patterns Second Edition offers the following J2EE Pattern Catalog with 21 patterns fully revised and newly documented patterns providing proven solutions for enterprise applications Design strategies for the presentation tier business tier and integration tier Coverage of servlets JSP EJB JMS and Web Services J2EE technology bad practices Refactorings to improve existing designs using patterns Fully illustrated with UML diagrams Extensive sample code for patterns strategies and refactorings

J2EE Best Practices Darren Broemmer,2003-02-11 Learn how to apply robust application design to your J2EE projects There are a number of best practices you need to consider to build highly effective J2EE components and integrate them into applications These practices include evaluating and selecting the right set of software components and services to handle the job In this book Darren Broemmer supplies you with a set of best practices for J2EE development and then teaches you how to use them to construct an application architecture referred to as the reference architecture The design and implementation of the reference architecture is based on a set of guiding principles that are used to optimize and automate J2EE development In addition to the author s thorough discussions of the latest technologies for J2EE implementation including EJB 2 Jakarta Struts Servlets Java Server Pages UML design patterns Common Business Logic Foundation components and XML Broemmer addresses such topics as Understanding J2EE application architecture Building business applications with J2EE a business object architecture and extensible components created with design patterns Designing and implementing a sample banking Web application Integrating proven performance engineering and optimization practices in the development process Using metadata driven configurable foundation components to automate much of the development and processing of Web based business applications The companion Web site contains the source code for a Common Business Logic Foundation and sample applications from the book including a Jakarta Struts project and a banking application Links to the Jakarta Struts frameworks and J2EE application servers such as BEA WebLogic and IBM WebSphere are also provided

**Professional Java EE Design Patterns** Murat Yener,Alex Theedom,2014-12-17 Master Java EE design pattern implementation to improve your design skills and your application s architecture Professional Java EE Design Patterns is the perfect companion for anyone who wants to work more effectively with JavaEE and the only resource

that covers both the theory and application of design patterns in solving real world problems The authors guide readers through both the fundamental and advanced features of Java EE 7 presenting patterns throughout and demonstrating how they are used in day to day problem solving As the most popular programming language in community driven enterprise software Java EE provides an API and runtime environment that is a superset of Java SE Written for the junior and experienced Java EE developer seeking to improve design quality and effectiveness the book covers areas including Implementation and problem solving with design patterns Connection between existing Java SE design patterns and new Java EE concepts Harnessing the power of Java EE in design patterns Individually based focus that fully explores each pattern Colorful war stories showing how patterns were used in the field to solve real life problems Unlike most Java EE books that simply offer descriptions or recipes this book drives home the implementation of the pattern to real problems to ensure that the reader learns how the patterns should be used and to be aware of their pitfalls For the programmer looking for a comprehensive guide that is actually useful in the everyday workflow Professional Java EE Design Patterns is the definitive resource on the market

Development of Component-based Information Systems Sergio De Cesare, Mark Lycett, Robert Macredie, *Foundations of AOP for J2EE Development* Lionel Seinturier, Renaud Pawlak, 2006-11-10 Foundations of AOP for J2EE Development covers a relatively new programming paradigm aspect oriented programming or AOP Presented are the core concepts of AOP AspectJ 5 JBoss AOP Spring AOP and JAC Specific features of these tools are compared The book also explores the potential uses of AOP in everyday programming life such as design patterns implementation program testing and application management In the latter part of the book the authors show how AOP can ease the task of J2EE application development J2EE is known for being a rich and somewhat complicated framework

*Expert One-on-One J2EE Design and Development* Rod Johnson, 2004-08-04 What is this book about The results of using J2EE in practice are often disappointing applications are often slow unduly complex and take too long to develop Rod Johnson believes that the problem lies not in J2EE itself but in that it is often used badly Many J2EE publications advocate approaches that while fine in theory often fail in reality or deliver no real business value Expert One on One J2EE Design and Development aims to demystify J2EE development Using a practical focus it shows how to use J2EE technologies to reduce rather than increase complexity Rod draws on his experience of designing successful high volume J2EE applications and salvaging failing projects as well as intimate knowledge of the J2EE specifications to offer a real world how to guide on how you too can make J2EE work in practice It will help you to solve common problems with J2EE and avoid the expensive mistakes often made in J2EE projects It will guide you through the complexity of the J2EE services and APIs to enable you to build the simplest possible solution on time and on budget Rod takes a practical pragmatic approach questioning J2EE orthodoxy where it has failed to deliver results in practice and instead suggesting effective proven approaches What does this book cover In this book you will learn When to use a distributed architecture When and how to use EJB How to develop an efficient data access strategy How to

design a clean and maintainable web interface How to design J2EE applications for performance Who is this book for This book would be of value to most enterprise developers Although some of the discussion for example on performance and scalability would be most relevant to architects and lead developers the practical focus would make it useful to anyone with some familiarity with J2EE Because of the complete design deployment coverage a less advanced developer could work through the book along with a more introductory text and successfully build and understand the sample application This comprehensive coverage would also be useful to developers in smaller organisations who might be called upon to fill several normally distinct roles What is special about this book Wondering what differentiates this book from others like it in the market Take a look It does not just discuss technology but stress its practical application The book is driven from the need to solve common tasks rather than by the elements of J2EE It discusses risks in J2EE development It takes the reader through the entire design development and build process of a non trivial application This wouldn't be compressed into one or two chapters like the Java Pet Store but would be a realistic example comparable to the complexity of applications readers would need to build At each point in the design alternative choices would be discussed This would be important both where there's a real problem with the obvious alternative and where the obvious alternatives are perhaps equally valid It emphasizes the use of OO design and design patterns in J2EE without becoming a theoretical book **J2EE DESIGN PATTERNS APPLIED**

□□□□□□,2003-01-10 Professional Struts Applications John Carnell,Jeff Linwood,Maciej Zawadzki,2003-08-21 Building maintainable and extensible web applications requires significant design and planning before even a single line of code can be written But when you leverage development frameworks you can overcome the many challenges of web based development This book maps out the Jakarta Struts framework to help you solve everyday web application development problems This book concentrates on using Struts to develop the core architecture of a web application and using other Jakarta projects to create a fully open source web application Included are Object RelationalBridge Lucene Velocity and ANT

**Objects, Components, Architectures, Services, and Applications for a Networked World** Mehmet Aksit,Mira Mezini,Rainer Unland,2003-07-01 This book constitutes the thoroughly refereed post proceedings of the international conference NetObjectDays 2002 held in Erfurt Germany in October 2002 The 26 revised full papers presented were carefully selected during two rounds of reviewing and revision The papers are organized in topical sections on embedded and distributed systems components and MDA Java technology Web services aspect oriented software design agents and mobility software product lines synchronization testing refactoring and CASE tools *Spring 5 Design Patterns* , Dinesh Rajput,2017-10-06 Learn various design patterns and best practices in Spring 5 and use them to solve common design problems About This Book Explore best practices for designing an application Manage your code easily with Spring's Dependency Injection pattern Understand the benefits that the right design patterns can offer your toolkit Who This Book Is For This book is for developers who would like to use design patterns to address common problems while designing an app

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

**Pro Apache Struts with Ajax** Kunal Mittal, Rob Harrop, John Carnell, 2007-05-02 Pro Apache Struts with Ajax maps out how to use the Apache Struts MVC web framework so you can solve everyday web application development challenges This book takes an application centric approach the development of an application drives Struts along with Ajax coverage not the other way around Improper design can lead to long term dependencies on the Struts framework which makes code reuse difficult to achieve This is the only book of its kind covering the Struts 1.2 framework It also covers evolutions into Shale and lightweight WebWork Struts Ti Authors John Carnell and Rob Harrop discuss Struts from an antipattern perspective and the end result is that you will learn to use Struts very effectively

*WS-BPEL 2.0 Beginner's Guide* Matjaz B. Juric, Denis Weerasiri, 2014-09-22 If you are a software architect a designer a software developer an SOA and BPM architect a project manager or a business process analyst who is responsible for the design and development of business processes composite applications and BPM SOA solutions then this book is for you You should have a clear grasp of general SOA concepts including business processes and web services but no prior knowledge of the BPEL language is required

*Professional Jakarta Struts* James Goodwill, Richard Hightower, 2003-10-21 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 Controller 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

**.NET Design Patterns** Praseed Pai,Shine Xavier,2017-01-31 Explore the world of NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased This fast paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with NET development who would like to take their skills to the next level and be in the driver s seat when it comes to modern development techniques Basic object oriented C programming experience and an elementary familiarity with the NET framework library is required What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C NET Use GoF and other patterns in real life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C LINQ constructs Be able to implement concurrent parallel programming techniques using idioms under NET Avoiding pitfalls when creating compositional readable and maintainable code using imperative functional and reactive code In Detail Knowing about design patterns enables developers to improve their code base promoting code reuse and making their design more robust This book focuses on the practical aspects of programming in NET You will learn about some of the relevant design patterns and their application that are most widely used We start with classic object oriented programming OOP techniques evaluate parallel programming and concurrency models enhance implementations by mixing OOP and functional programming and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code Throughout this book we ll show you how to deal with architecture design techniques GoF patterns relevant patterns from other catalogs functional programming and reactive programming techniques After reading this book you will be able to convincingly leverage these design patterns factory pattern builder pattern prototype pattern adapter pattern facade pattern decorator pattern observer pattern and so on for your programs You will also be able to write fluid



functional code in NET that would leverage concurrency and parallelism Style and approach This tutorial based book takes a step by step approach It covers the major patterns and explains them in a detailed manner along with code examples

**Gareth's Guide to Becoming a Rock Star Coder** Patricia Harris, 2017-07-30 Computer literacy is nothing short of imperative and many educators are advocating for students to understand code and even to become coders themselves This motivating volume doesn't just introduce different kinds of coding it instills readers with an excitement for coding themselves They'll learn about special languages and programs that make coding achievable at all levels of proficiency They'll be introduced to professional coders and learn how coding requires practical knowledge as well as creativity in solving problems

An appealing design adds interest to this already high interest topic which supports STEM curricula **Building Microservices with Spring** Dinesh Rajput, Rajesh R V, 2018-12-21 Learn and use the design patterns and best practices in Spring to solve common design problems and build user friendly microservices Key Features Study the benefits of using the right design pattern in your toolkit Manage your code easily with Spring's dependency injection pattern Explore the features of Docker and Mesos to build successful microservices Book Description Getting Started with Spring Microservices begins with an overview of the Spring Framework 5.0 its design patterns and its guidelines that enable you to implement responsive microservices at scale You will learn how to use GoF patterns in application design You will understand the dependency injection pattern which is the main principle behind the decoupling process of the Spring Framework and makes it easier to manage your code Then you will learn how to use proxy patterns in aspect oriented programming and remoting Moving on you will understand the JDBC template patterns and their use in abstracting database access After understanding the basics you will move on to more advanced topics such as reactive streams and concurrency Written to the latest specifications of Spring that focuses on Reactive Programming the Learning Path teaches you how to build modern internet scale Java applications in no time Next you will understand how Spring Boot is used to deploying serverless autonomous services by removing the need to have a heavyweight application server You'll also explore ways to deploy your microservices to Docker and managing them with Mesos By the end of this Learning Path you will have the clarity and confidence for implementing microservices using Spring Framework This Learning Path includes content from the following Packt products Spring 5 Microservices by Rajesh R V Spring 5 Design Patterns by Dinesh Rajput What you will learn Develop applications using dependency injection patterns Build web applications using traditional Spring MVC patterns Utilize the reactive programming pattern to build reactive web apps Learn concurrency and handle multiple connections inside a web server Use Spring Boot and Spring Cloud to develop microservices Leverage reactive programming to build cloud native applications Who this book is for Getting Started with Spring Microservices is ideal for Spring developers who want to use design patterns to solve common design problems and build cloud ready Internet scale applications and simple RESTful services **Business**

**Process Driven SOA Using BPMN and BPEL** Kapil Pant, Matjaz B. Juric, 2008-08-28 Go from Business Process Modeling to

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certification of compliance with requirements of awwa d100 section 14 appendix a commentary for welded carbon steel tanks for water storage section a 1

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