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# Building Maintainable Software

TEN GUIDELINES FOR FUTURE-PROOF CODE

Joost Visser

# Building Maintainable Software Java Edition Geekbooks

**Stuart Reges**



## **Building Maintainable Software Java Edition Geekbooks:**

**Building Maintainable Software, Java Edition** Joost Visser, Sylvan Rigal, Rob van der Leek, Pascal van Eck, Gijs Wijnholds, 2016-01-28 Have you ever felt frustrated working with someone else's code? Difficult to maintain source code is a big problem in software development today leading to costly delays and defects. Be part of the solution. With this practical book you'll learn 10 easy-to-follow guidelines for delivering Java software that's easy to maintain and adapt. These guidelines have been derived from analyzing hundreds of real-world systems. Written by consultants from the Software Improvement Group (SIG), this book provides clear and concise explanations with advice for turning the guidelines into practice. Examples for this edition are written in Java while our companion C book provides workable examples in that language. Write short units of code, limit the length of methods and constructors. Write simple units of code, limit the number of branch points per method. Write code once rather than risk copying buggy code. Keep unit interfaces small by extracting parameters into objects. Separate concerns to avoid building large classes. Couple architecture components loosely. Balance the number and size of top-level components in your code. Keep your codebase as small as possible. Automate tests for your codebase. Write clean code avoiding code smells that indicate deeper problems.

**Get Your Hands Dirty on Clean Architecture: Build 'clean' Applications with Code Examples in Java** Tom Hombergs, 2023-07-14 Gain insight into how Hexagonal Architecture can help to increase maintainability. Key Features: Explore ways to make your software flexible, extensible, and adaptable. Learn new concepts that you can easily blend with your own software development style. Develop the mindset of making conscious architecture decisions. Book Description: Building for maintainability is key to keep development costs low and developers happy. The second edition of *Get Your Hands Dirty on Clean Architecture* is here to equip you with the essential skills and knowledge to build maintainable software. Building upon the success of the first edition, this comprehensive guide explores the drawbacks of conventional layered architecture and highlights the advantages of domain-centric styles such as Robert C. Martin's Clean Architecture and Alistair Cockburn's Hexagonal Architecture. Then the book dives into hands-on chapters that show you how to manifest a Hexagonal Architecture in actual code. You'll learn in detail about different mapping strategies between the layers of a Hexagonal Architecture and see how to assemble the architecture elements into an application. The later chapters demonstrate how to enforce architecture boundaries, what shortcuts produce what types of technical debt, and how sometimes it is a good idea to willingly take on those debts. By the end of this second edition, you'll be armed with a deep understanding of the Hexagonal Architecture style and be ready to create maintainable web applications that save money and time. Whether you're a seasoned developer or a newcomer to the field, *Get Your Hands Dirty on Clean Architecture* will empower you to take your software architecture skills to new heights and build applications that stand the test of time. What You Will Learn: Identify potential shortcomings of using a layered architecture. Apply varied methods to enforce architectural boundaries. Discover how potential shortcuts can affect the software architecture. Produce arguments for using different

styles of architecture Structure your code according to the architecture Run various tests to check each element of the architecture Who this book is for This book is for you if you care about the architecture of the software you are building To get the most out of this book you must have some experience with web development The code examples in this book are in Java If you are not a Java programmer but can read object oriented code in other languages you will be fine In the few places where Java or framework specifics are needed they are thoroughly explained

**Hands-On Design Patterns with Java** Dr. Edward Lavieri, 2019-04-27 Understand Gang of Four architectural functional and reactive design patterns and how to implement them on modern Java platforms such as Java 12 and beyond Key Features Learn OOP functional and reactive patterns for creating readable and maintainable code Explore architectural patterns and practices for building scalable and reliable applications Tackle all kinds of performance related issues and streamline development using design patterns Book Description Java design patterns are reusable and proven solutions to software design problems This book covers over 60 battle tested design patterns used by developers to create functional reusable and flexible software Hands On Design Patterns with Java starts with an introduction to the Unified Modeling Language UML and delves into class and object diagrams with the help of detailed examples You ll study concepts and approaches to object oriented programming OOP and OOP design patterns to build robust applications As you advance you ll explore the categories of GOF design patterns such as behavioral creational and structural that help you improve code readability and enable large scale reuse of software You ll also discover how to work effectively with microservices and serverless architectures by using cloud design patterns each of which is thoroughly explained and accompanied by real world programming solutions By the end of the book you ll be able to speed up your software development process using the right design patterns and you ll be comfortable working on scalable and maintainable projects of any size What you will learn Understand the significance of design patterns for software engineering Visualize software design with UML diagrams Strengthen your understanding of OOP to create reusable software systems Discover GOF design patterns to develop scalable applications Examine programming challenges and the design patterns that solve them Explore architectural patterns for microservices and cloud development Who this book is for If you are a developer who wants to learn how to write clear concise and effective code for building production ready applications this book is for you Familiarity with the fundamentals of Java is assumed

**Designing Hexagonal Architecture with Java** Davi Vieira, 2023-09-29 Learn to build robust resilient and highly maintainable cloud native Java applications with hexagonal architecture and Quarkus Key Features Use hexagonal architecture to increase maintainability and reduce technical debt Learn how to build systems that are easy to change and understand Leverage Quarkus to create modern cloud native applications Purchase of the print or Kindle book includes a free PDF eBook Book Description We live in a fast evolving world with new technologies emerging every day where enterprises are constantly changing in an unending quest to be more profitable So the question arises how to develop software capable of handling a high level of unpredictability With this

question in mind this book explores how the hexagonal architecture can help build robust change tolerable maintainable and cloud native applications that can meet the needs of enterprises seeking to increase their profits while dealing with uncertainties This book starts by uncovering the secrets of the hexagonal architecture s building blocks such as entities use cases ports and adapters You ll learn how to assemble business code in the domain hexagon create features with ports and use cases in the application hexagon and make your software compatible with different technologies by employing adapters in the framework hexagon In this new edition you ll learn about the differences between a hexagonal and layered architecture and how to apply SOLID principles while developing a hexagonal system based on a real world scenario Finally you ll get to grips with using Quarkus to turn your hexagonal application into a cloud native system By the end of this book you ll be able to develop robust flexible and maintainable systems that will stand the test of time What you will learn Apply SOLID principles to the hexagonal architecture Assemble business rules algorithms using the specified design pattern Combine domain driven design techniques with hexagonal principles to create powerful domain models Employ adapters to enable system compatibility with various protocols such as REST gRPC and WebSocket Create a module and package structure based on hexagonal principles Use Java modules to enforce dependency inversion and ensure software component isolation Implement Quarkus DI to manage the life cycle of input and output ports Who this book is for This book is for software architects and Java developers looking to improve code maintainability and enhance productivity with an architecture that allows changes in technology without compromising business logic Intermediate knowledge of the Java programming language and familiarity with Jakarta EE will help you to get the most out of this book

**Building Java Programs** Stuart Reges,2010      **Real-World Software Development** Raoul-Gabriel Urma,Richard Warburton,2019-12-02

Explore the latest Java based software development techniques and methodologies through the project based approach in this practical guide Unlike books that use abstract examples and lots of theory Real World Software Development shows you how to develop several relevant projects while learning best practices along the way With this engaging approach junior developers capable of writing basic Java code will learn about state of the art software development practices for building modern robust and maintainable Java software You ll work with many different software development topics that are often excluded from software develop how to references Featuring real world examples this book teaches you techniques and methodologies for functional programming automated testing security architecture and distributed systems

*Restful Java Patterns and Best Practices* Bhakti Mehta,2014-09-19 This book is aimed at novice developers who want to gain insights into building RESTful services and improve productivity as well as for advanced developers who want to delve into more complicated topics

*Building Java Programs, Student Value Edition* Stuart Reges,Marty Stepp,2013-03-11      **Précieuse collection de médailles grecques autonomes et des colonies romaines, formée par un amateur Russe et vendue pour compte des héritiers** ,1889      Spring Boot 4 Architect's Handbook VICTOR T. GAT,2026-01-06 Are you tired of Java

systems that start strong but collapse under real world scale Have you ever wondered why some Spring Boot applications feel effortless to maintain while others become impossible to evolve What truly separates a working application from a well architected future proof system This book starts exactly where your questions begin What does it really mean to architect with Spring Boot 4 in today s world of cloud native systems microservices security threats and relentless performance demands Is it about adding more annotations Writing more code Or is it about thinking differently like an architect not just a developer Spring Boot 4 Architect s Handbook is a conversation with you the developer who wants more than tutorials and shortcuts It challenges your assumptions questions your habits and walks with you through the architectural decisions that define scalable secure and maintainable Java systems Have you ever asked yourself Why does this system feel fragile even though it works How do I design services that can scale without rewriting everything later How do I balance clean architecture with real world delivery pressure What architectural choices today will hurt or help me two years from now This book doesn t rush past those questions It sits with them You ll explore how modern Spring Boot 4 systems are designed structured and evolved not just built You ll learn how to think in boundaries responsibilities and trade offs because every architectural decision has a cost You ll see how scalability is planned not patched How security is designed in not bolted on And how maintainability is achieved through clarity not complexity This is not a beginner s how to guide it s an architect s conversation It speaks to developers stepping into architectural roles senior engineers shaping platforms and teams responsible for systems that must survive growth change and pressure You ll be guided through Designing Spring Boot systems that grow gracefully under load Structuring applications for long term maintainability Making smart architectural trade offs instead of following trends blindly Building security aware systems without sacrificing developer velocity Thinking in systems not just features And along the way the book keeps asking you the most important question of all Why are you building it this way Because when you can answer that question with confidence your systems change and so do you If you re ready to stop guessing stop copying patterns without understanding them and start designing Spring Boot systems with intention clarity and confidence Open this handbook Challenge your thinking And start architecting Java systems the right way today

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