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Building Maintainable Software

TEN GUIDELINES FOR FUTURE-PROOF CODE

Joost Visser

Building Maintainable Software Java Edition Geekbooks

Tom Hombergs



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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

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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

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