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Maven Build Customization

Discover the real power of Maven 3 to manage your Java projects more effectively than ever

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Maven Build Customization

Ian F. Darwin



Maven Build Customization:

Maven Build Customization Lorenzo Anardu,Roberto Baldi,Umberto Antonio Cicero,Riccardo Giomi,Giacomo Veneri,2014-10-31 This book is for developers and delivery managers who have some experience with Maven and Java but want to extend their knowledge to automate the building process thereby reducing human errors **The Apache Maven Handbook** Robert Johnson,2025-01-16 The Apache Maven Handbook Practical Solutions for Build and Deployment is an essential guide for developers seeking to streamline their software project management using Apache Maven This comprehensive resource adeptly explores Maven s multifaceted capabilities from setting up the environment to mastering its advanced features With a focus on practicality and clarity the book is designed to take readers through a detailed journey making complex concepts accessible to both beginners and seasoned developers The handbook covers the Project Object Model dependency management and multi module projects equipping readers with the tools to handle diverse project needs efficiently It also delves into the integration of Maven with continuous integration tools ensuring automated and efficient development workflows Laden with best practices and troubleshooting tips this book serves as an invaluable companion for harnessing the full potential of Maven ultimately enhancing project delivery and software quality **Maven: The Definitive Guide** Sonatype Company,2008-09-24 For too long developers have worked on disorganized application projects where every part seemed to have its own build system and no common repository existed for information about the state of the project Now there s help The long awaited official documentation to Maven is here Written by Maven creator Jason Van Zyl and his team at Sonatype Maven The Definitive Guide clearly explains how this tool can bring order to your software development projects Maven is largely replacing Ant as the build tool of choice for large open source Java projects because unlike Ant Maven is also a project management tool that can run reports generate a project website and facilitate communication among members of a working team To use Maven everything you need to know is in this guide The first part demonstrates the tool s capabilities through the development from ideation to deployment of several sample applications a simple software development project a simple web application a multi module project and a multi module enterprise project The second part offers a complete reference guide that includes The POM and Project Relationships The Build Lifecycle Plugins Project website generation Advanced site generation Reporting Properties Build Profiles The Maven Repository Team Collaboration Writing Plugins IDEs such as Eclipse IntelliJ and NetBeans Using and creating assemblies Developing with Maven Archetypes Several sources for Maven have appeared online for some time but nothing served as an introduction and comprehensive reference guide to this tool until now Maven The Definitive Guide is the ideal book to help you manage development projects for software web applications and enterprise applications And it comes straight from the source

Comprehensive Maven Reference Richard Johnson,2025-06-20 Comprehensive Maven Reference The Comprehensive Maven Reference stands as the definitive guide for mastering every facet of Maven the cornerstone build automation tool for

modern Java projects Beginning with an insightful exploration of Maven's evolution and its architectural principles the book demystifies complex concepts including lifecycles goals phases and the Project Object Model POM Readers will appreciate the structured deep dive into industry standard directory layouts build performance tuning and advanced lifecycle customization ensuring a solid foundation for both newcomers and experienced professionals seeking to optimize their build processes Moving beyond the fundamentals this reference meticulously covers sophisticated dependency management strategies repository architecture and the orchestration of multi module enterprise projects Detailed chapters instruct on transitive dependency handling repository security artifact promotion and compliance addressing real world challenges faced by developers and DevOps teams The book also presents advanced guidance on plugin development and management environment specific builds polyglot Maven usage and automating validation to maintain consistency across large scale codebases Recognizing the critical role of Maven in the DevOps lifecycle the guide dedicates in depth sections to CI CD integration automated testing artifact security and governance Practical troubleshooting advice performance tuning tips and diagnostics approaches equip readers to confidently resolve issues that arise in complex build environments Comprehensive Maven Reference is thus an indispensable authoritative resource serving architects engineers and build managers in pursuit of reliable maintainable and high performance Maven driven projects

Mastering Gradle Mainak Mitra, 2015-07-31 With Gradle you can efficiently build automation framework along with some flexible alternatives to customized build logic This book starts with sound basics about build automation and how Gradle fits into this automation It then moves on to give you a good exposure on Groovy a scripting language used to write Gradle and helps you understand a key elements of Groovy programming language In the following chapters you will deal with task management and learn how to integrate Ant tasks into build scripts Furthermore you will learn dependency management plugin management and its configuration techniques in Gradle You will also get hands on with building and testing projects using Gradle You will then begin to cover diverse topics such as Continuous Integration with Jenkins and TeamCity Migration strategies and Deployment which enables you to learn concepts useful for Agile software development Finally you will also learn how to create a simple mobile application using Android and explore how Gradle can help you to build and test the application

Advanced Java Persistence: Techniques and Best Practices with Hibernate Adam Jones, 2024-12-13 Unlock the full potential of Java persistence with *Advanced Java Persistence Techniques and Best Practices with Hibernate* This definitive guide offers an in depth exploration of Hibernate the leading ORM framework that has transformed Java application development With comprehensive coverage ranging from foundational concepts and configurations to advanced mappings query optimizations and performance tuning this book is meticulously crafted for Java developers architects and anyone eager to master Hibernate *Advanced Java Persistence* is structured to elevate your skills by detailing how to seamlessly integrate Hibernate into your Java projects for enhanced data handling and optimized application performance Discover how to harness Hibernate's capabilities for entity

mapping transaction management concurrency control and more This book enriched with practical examples expert insights and valuable tips equips you to overcome common challenges empowering you to build efficient scalable and robust Java applications Whether you re new to Hibernate or seeking to enhance your existing knowledge this book provides a wealth of information and best practices to help you navigate the complexities of Java persistence Prepare to transform your application development process and achieve superior results with Advanced Java Persistence Techniques and Best Practices with Hibernate

Java Cookbook Ian F. Darwin,2025-02-06 As Java continues to evolve this cookbook continues to grow in tandem with hundreds of hands on recipes across a broad range of Java topics Author Ian Darwin gets developers up to speed right away with useful techniques for everything from string handling and functional programming to network communication and AI If you re familiar with any release of Java this book will bolster your knowledge of the language and its many recent changes including how to apply them in your day to day development Each recipe includes self contained code solutions that you can freely use along with a discussion of how and why they work Downloadable from GitHub all code examples compile successfully This updated edition covers changes up to and including Java 21 You will Learn how to apply many new and old Java APIs Use the new language features in recent Java versions Understand the code you re maintaining Develop code using standard APIs and good practices Explore the brave new world of current Java development Ian Darwin has a lifetime of experience in the software industry having worked with Java across many platforms and types of software from Java s initial pre release to the present from desktop to enterprise to mobile

DevOps Tools for Java Developers Stephen Chin,Melissa McKay,Ixchel Ruiz,Baruch Sadogursky,2022-04-15 With the rise of DevOps low cost cloud computing and container technologies the way Java developers approach development today has changed dramatically This practical guide helps you take advantage of microservices serverless and cloud native technologies using the latest DevOps techniques to simplify your build process and create hyperproductive teams Stephen Chin Melissa McKay Ixchel Ruiz and Baruch Sadogursky from JFrog help you evaluate an array of options The list includes source control with Git build declaration with Maven and Gradle CI CD with CircleCI package management with Artifactory containerization with Docker and Kubernetes and much more Whether you re building applications with Jakarta EE Spring Boot Dropwizard MicroProfile Micronaut or Quarkus this comprehensive guide has you covered Explore software lifecycle best practices Use DevSecOps methodologies to facilitate software development and delivery Understand the business value of DevSecOps best practices Manage and secure software dependencies Develop and deploy applications using containers and cloud native technologies Manage and administrate source control repositories and development processes Use automation to set up and administer build pipelines Identify common deployment patterns and antipatterns Maintain and monitor software after deployment

Making Java Groovy Kenneth Kousen,2013-09-18 Summary Making Java Groovy is a practical handbook for developers who want to blend Groovy into their day to day work with Java It starts by introducing the key differences between Java and Groovy and how

you can use them to your advantage Then it guides you step by step through realistic development challenges from web applications to web services to desktop applications and shows how Groovy makes them easier to put into production About this Book You don t need the full force of Java when you re writing a build script a simple system utility or a lightweight web app but that s where Groovy shines brightest This elegant JVM based dynamic language extends and simplifies Java so you can concentrate on the task at hand instead of managing minute details and unnecessary complexity Making Java Groov is a practical guide for developers who want to benefit from Groovy in their work with Java It starts by introducing the key differences between Java and Groovy and how to use them to your advantage Then you ll focus on the situations you face every day like consuming and creating RESTful web services working with databases and using the Spring framework You ll also explore the great Groovy tools for build processes testing and deployment and learn how to write Groovy based domain specific languages that simplify Java development Written for developers familiar with Java No Groovy experience required Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside Easier Java Closures builders and metaprogramming Gradle for builds Spock for testing Groovy frameworks like Grails and Griffon About the Author Ken Kousen is an independent consultant and trainer specializing in Spring Hibernate Groovy and Grails Table of Contents PART 1 UP TO SPEED WITH GROOVY Why add Groovy to Java Groovy by example Code level integration Using Groovy features in Java PART 2 GROOVY TOOLS Build processes Testing Groovy and Java projects PART 3 GROOVY IN THE REAL WORLD The Spring framework Database access RESTful web services Building and testing web applications

Spring Boot 3 API Mastery Vincenzo Racca,2025-02-24 DESCRIPTION This book is a complete guide to designing and implementing scalable secure and modern APIs in a microservices architecture Covering both synchronous communication via REST GraphQL and gRPC as well as asynchronous communication with Kafka it equips you with the tools to build efficient reliable and observable APIs Learn best practices for designing REST APIs including HTTP verb usage and the API first approach Explore Spring Boot technologies like WebFlux and virtual threads to build scalable REST APIs The book also demonstrates how to use Spring Cloud Stream for broker agnostic asynchronous communication to build robust event driven architectures To ensure observability you will implement logging monitoring and tracing with Grafana Prometheus and Tempo Security is key and the book covers OAuth2 and OpenID Connect using Spring Security and Keycloak for centralized authentication Finally discover how to deploy microservices with Docker and Kubernetes mastering containerization and orchestration KEY FEATURES Design scalable and observable APIs for cloud native microservices Master REST GraphQL gRPC and event driven API best practices Secure APIs with OAuth2 OpenID Connect and Spring Security WHAT YOU WILL LEARN Design scalable secure REST APIs with Spring Boot WebFlux and virtual threads Implement GraphQL and gRPC for modern APIs Master asynchronous communication with Kafka and Spring Cloud Stream Achieve observability with logging metrics and distributed tracing Deploy microservices on Docker and Kubernetes with ease

WHO THIS BOOK IS FOR This book is for software developers and architects aiming to design scalable secure and modern APIs in a microservices architecture Prior knowledge of Java and Spring Framework is recommended

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Continuous Deployment for Java Apps: Mastering Jenkins and Docker Peter Jones, 2025-01-12 Continuous Deployment for Java Apps Mastering Jenkins and Docker is an indispensable guide for software developers DevOps engineers and IT professionals aiming to enhance their proficiency in cutting edge deployment technologies This comprehensive resource delves deeply into continuous deployment with a special focus on Java applications and harnessing the capabilities of Jenkins and Docker two pivotal tools in the modern DevOps landscape The book provides a complete walkthrough from setting up a robust development environment to mastering containerization and automation You will learn how to prepare build test and deploy Java applications seamlessly Each chapter offers meticulous guidance on configuring Jenkins for automation building Docker containers optimized for Java managing staging environments and addressing many other critical aspects Whether you are a developer seeking to streamline your deployment process a DevOps engineer responsible for creating automated pipelines or an IT manager overseeing comprehensive software operations this book equips you to implement effective and efficient continuous deployment practices Emphasizing best practices potential pitfalls and advanced topics the knowledge you gain from this book will elevate your skill set and enable you to transform your organization s deployment strategy fundamentally Reinforce your learning adopt innovative methodologies and drive your projects to success with Continuous Deployment for Java Apps Mastering Jenkins and Docker

Mastering Apache Maven 3 Prabath Siriwardena, 2014-12-29 If you are working with Java or Java EE projects and you want to take full advantage of Maven in designing executing and maintaining your build system for optimal developer productivity then this book is ideal for you You should be well versed with Maven and its basic functionality if you wish to get the most out of the book

Efficient Java Containerization with Jib William Smith, 2025-08-20 Efficient Java Containerization with Jib Efficient Java Containerization with Jib offers a comprehensive and authoritative guide for Java developers and DevOps professionals seeking to streamline the process of building optimizing and securing container images for Java applications The book begins by establishing a solid foundation in containerization concepts exploring core technologies like Docker and OCI and examining image layering security implications and modern build workflows Readers develop a clear understanding of the conventions and challenges unique to packaging Java applications including JARs WARs and complex dependency management Diving deep into Jib the innovative open source Java containerizer the book elucidates the architectural decisions and declarative philosophy that set Jib apart from traditional Dockerfile based approaches It delivers

practical implementation guidance for both Maven and Gradle users empowering readers to create reproducible highly optimized and secure images without the need for manual Dockerfiles Detailed chapters cover advanced techniques such as multi module builds effective caching strategies custom entrypoints image provenance and automation within modern CI CD pipelines ensuring fast and repeatable deployments at scale Security and extensibility remain at the forefront throughout with targeted best practices for hardening images enforcing least privilege automating vulnerability scanning and ensuring supply chain integrity The book highlights integration with leading DevOps and cloud native workflows tackles emerging trends such as serverless deployments and sustainable build practices and invites readers to actively contribute to the Jib community With its blend of technical depth and real world application Efficient Java Containerization with Jib is an essential resource for building robust efficient and future ready Java container solutions

Gradle for Android Kevin

Pelgrims,2015-07-17 Gradle is an open source build automation system that introduces a Groovy based domain specific language DSL to configure projects Using Gradle makes it easy for Android developers to manage dependencies and set up the entire build process This book begins by taking you through the basics of Gradle and how it works with Android Studio Furthermore you will learn how to add local and remote dependencies to your project You will work with build variants such as debug and release paid and free and even combinations of these things The book will also help you set up unit and integration testing with different libraries and will show how Gradle and Android Studio can make running tests easier Finally you will be shown a number of tips and tricks on the advanced customization of your application s build process By the end of this book you will be able to customize the entire build process and create your own tasks and plugins for your Gradle builds

Implementing Domain-Specific Languages with Xtext and Xtend Lorenzo Bettini,2016-08-31

Learn how to implement a DSL with Xtext and Xtend using easy to understand examples and best practices About This Book Leverage the latest features of Xtext and Xtend to develop a domain specific language Integrate Xtext with popular third party IDEs and get the best out of both worlds Discover how to test a DSL implementation and how to customize runtime and IDE aspects of the DSL Who This Book Is For This book is targeted at programmers and developers who want to create a domain specific language with Xtext They should have a basic familiarity with Eclipse and its functionality Previous experience with compiler implementation can be helpful but is not necessary since this book will explain all the development stages of a DSL What You Will Learn Write Xtext grammar for a DSL Use Xtend as an alternative to Java to write cleaner easier to read and more maintainable code Build your Xtext DSLs easily with Maven Tycho and Gradle Write a code generator and an interpreter for a DSL Explore the Xtext scoping mechanism for symbol resolution Test most aspects of the DSL implementation with JUnit Understand best practices in DSL implementations with Xtext and Xtend Develop your Xtext DSLs using Continuous Integration mechanisms Use an Xtext editor in a web application In Detail Xtext is an open source Eclipse framework for implementing domain specific languages together with IDE functionalities It lets you implement

languages really quickly most of all it covers all aspects of a complete language infrastructure including the parser code generator interpreter and more This book will enable you to implement Domain Specific Languages DSL efficiently together with their IDE tooling with Xtext and Xtend Opening with brief coverage of Xtext features involved in DSL implementation including integration in an IDE the book will then introduce you to Xtend as this language will be used in all the examples throughout the book You will then explore the typical programming development workflow with Xtext when we modify the grammar of the DSL Further the Xtend programming language a fully featured Java like language tightly integrated with Java will be introduced We then explain the main concepts of Xtext such as validation code generation and customizations of runtime and UI aspects You will have learned how to test a DSL implemented in Xtext with JUnit and will progress to advanced concepts such as type checking and scoping You will then integrate the typical Continuous Integration systems built in to Xtext DSLs and familiarize yourself with Xbase By the end of the book you will manually maintain the EMF model for an Xtext DSL and will see how an Xtext DSL can also be used in IntelliJ Style and approach A step by step tutorial with illustrative examples that will let you master using Xtext and implementing DSLs with its custom language Xtend

Kibana 7 Quick Start Guide Anurag Srivastava,2019-01-31 A quick start guide to visualize your Elasticsearch data Key FeaturesYour hands on guide to visualizing the Elasticsearch data as well as navigating the Elastic stackWork with different Kibana plugins and create effective machine learning jobs using KibanaBuild effective dashboards and reports without any hassleBook Description The Elastic Stack is growing rapidly and day by day additional tools are being added to make it more effective This book endeavors to explain all the important aspects of Kibana which is essential for utilizing its full potential This book covers the core concepts of Kibana with chapters set out in a coherent manner so that readers can advance their learning in a step by step manner The focus is on a practical approach thereby enabling the reader to apply those examples in real time for a better understanding of the concepts and to provide them with the correct skills in relation to the tool With its succinct explanations it is quite easy for a reader to use this book as a reference guide for learning basic to advanced implementations of Kibana The practical examples such as the creation of Kibana dashboards from CSV data application RDBMS data system metrics data log file data APM agents and search results can provide readers with a number of different drop off points from where they can fetch any type of data into Kibana for the purpose of analysis or dashboarding What you will learnExplore how Logstash is configured to fetch CSV dataUnderstand how to create index patterns in KibanaBecome familiar with how to apply filters on dataDiscover how to create ML jobsExplore how to analyze APM data from APM agentsGet to grips with how to save share inspect and edit visualizationsUnderstand how to find an anomaly in dataWho this book is for Kibana 7 Quick Start Guide is for developers new to Kibana who want to learn the fundamentals of using the tool for visualization as well as existing Elastic developers

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

Java Power Tools John Ferguson Smart,2008-04-22 All true craftsmen need the best tools to do their finest work and programmers are no different Java Power Tools delivers 30 open source tools designed to improve the development practices of Java developers in any size team or organization Each chapter includes a series of short articles about one particular tool whether it s for build systems version control or other aspects of the development process giving you the equivalent of 30 short reference books in one package No matter which development method your team chooses whether it s Agile RUP XP SCRUM or one of many others available Java Power Tools provides practical techniques and tools to help you optimize the process The book discusses key Java development problem areas and best practices and focuses on open source tools that can help increase productivity in each area of the development cycle including Build tools including Ant and Maven 2 Version control tools such as CVS and Subversion the two most prominent open source tools Quality metrics tools that measure different aspects of code quality including CheckStyle PMD FindBugs and Jupiter Technical documentation tools that can help you generate good technical documentation without spending too much effort writing and maintaining it Unit Testing tools including JUnit 4 TestNG and the open source coverage tool Cobertura Integration Load and Performance Testing to integrate performance tests into unit tests load test your application and automatically test web services Swing interfaces and web interfaces Issue management tools including Bugzilla and Trac Continuous Integration tools such as Continuum Cruise Control LintBuild and Hudson If you are a Java developer these tools can help improve your development practices and make your life easier in the process Lead developers software architects and people interested in the wider picture will be able to gather from these pages some useful ideas about improving your project infrastructure and best practices

Advanced Java Manish Soni,2024-11-13 Welcome to Advanced Java Java has evolved significantly since its inception becoming one of the most popular programming languages for a good reason This book aims to take you beyond the basics of Java introducing advanced concepts techniques and tools to help you become a proficient Java developer

Whether you're new to Java or an experienced developer looking to enhance your skills this book will be your guide. We will cover a diverse range of topics from advanced object oriented programming and concurrency to database connectivity, web development and modern Java frameworks. Our objective is to do more than just teach you how to write Java code; we want to help you become a Java craftsman or craftswoman capable of creating complex, efficient and elegant software solutions. You'll gain the knowledge and practical experience needed to confidently address real world challenges. The journey begins with advanced object oriented programming principles and design patterns where you'll learn to design your software for scalability, maintainability and flexibility using industry standard practices. Concurrency is a critical aspect of modern software development and this book will delve into multithreading, synchronization and concurrent data structures providing you with the tools to write high performance, parallelized applications. Mastering database connectivity is essential for any Java developer. You'll learn to work with databases including advanced SQL queries, JDBC and connection pooling enabling you to build robust, data driven applications. Web development is another fundamental component of modern Java programming. You'll explore technologies like Servlets, JSP and Java Server Faces (JSF) and we'll introduce the Spring Framework, a comprehensive toolset for developing enterprise level applications. Throughout the book we'll emphasize best practices, coding standards and design guidelines to help you write not only functional but also maintainable and elegant code. You'll learn how to leverage tools and libraries to enhance your productivity and streamline your development process. As you embark on this journey into Advanced Java, remember that mastering any craft requires time and practice. Java is a versatile and powerful tool and with dedication and persistence you can unlock its full potential. We encourage you to engage with the hands-on exercises and embrace the challenges that advanced Java programming presents. By the end of this book we hope you'll have expanded not only your technical skills but also your mindset as a software developer.

Spring Boot Interview Questions and Answers - English Navneet Singh, Here are some common Spring Boot interview questions along with their answers. What is Spring Boot? Spring Boot is an open source Java based framework used to create stand alone production grade Spring based applications with minimal setup and configuration. What are the key features of Spring Boot? Some key features include: Auto configuration: It automatically configures the Spring application based on dependencies present in the class path. Starter dependencies: Pre-configured dependencies to simplify dependency management. Embedded servers: It provides support for embedding servlet containers like Tomcat, Jetty and Undertow. Production ready features: It includes features like metrics, health checks and externalized configuration. Explain the difference between Spring and Spring Boot. Spring is a comprehensive framework for building enterprise level Java applications while Spring Boot is an extension of the Spring framework that simplifies the process of building and deploying Spring applications by providing defaults for configuration and eliminating boilerplate code. How does Spring Boot simplify the development process? Spring Boot simplifies development by providing defaults for configuration, reducing the amount of boilerplate code and offering a range

of pre built features and plugins

What is Spring Boot Starter Spring Boot Starter is a set of convenient dependency descriptors that you can include in your application You can add starters to your application s class path and Spring Boot will automatically configure the appropriate dependencies based on the libraries present

How does Spring Boot handle configuration Spring Boot uses convention over configuration and auto configuration to minimize the need for explicit configuration It provides sensible defaults for configuration and automatically configures components based on the classpath and application properties

What is Spring Boot Actuator Spring Boot Actuator is a set of production ready features that help you monitor and manage your application It includes endpoints for health checks metrics info environment details and more

Explain the difference between Component Service Repository and Controller annotations in Spring Boot Component is a generic stereotype annotation for any Spring managed component Service is used to mark a class as a service component in the business layer Repository is used to mark a class as a data access component in the persistence layer Controller is used to mark a class as a controller component in the presentation layer typically for handling HTTP requests

How does Spring Boot support testing Spring Boot provides support for unit testing integration testing and end to end testing using frameworks like JUnit Mockito and Spring Boot Test It includes features like `SpringBootTest` annotation for loading Spring application contexts `MockBean` annotation for mocking beans and `TestRestTemplate` for testing RESTful endpoints

What is Spring Boot CLI Spring Boot CLI Command Line Interface is a command line tool that allows you to quickly develop Spring Boot applications using Groovy scripts It provides features like auto restart dependency management and more directly from the command line

These questions cover some of the fundamental aspects of Spring Boot that are commonly asked in interviews Make sure to understand these concepts thoroughly and be prepared to provide examples or elaborate on them during interviews

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Maven Build Customization Introduction

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