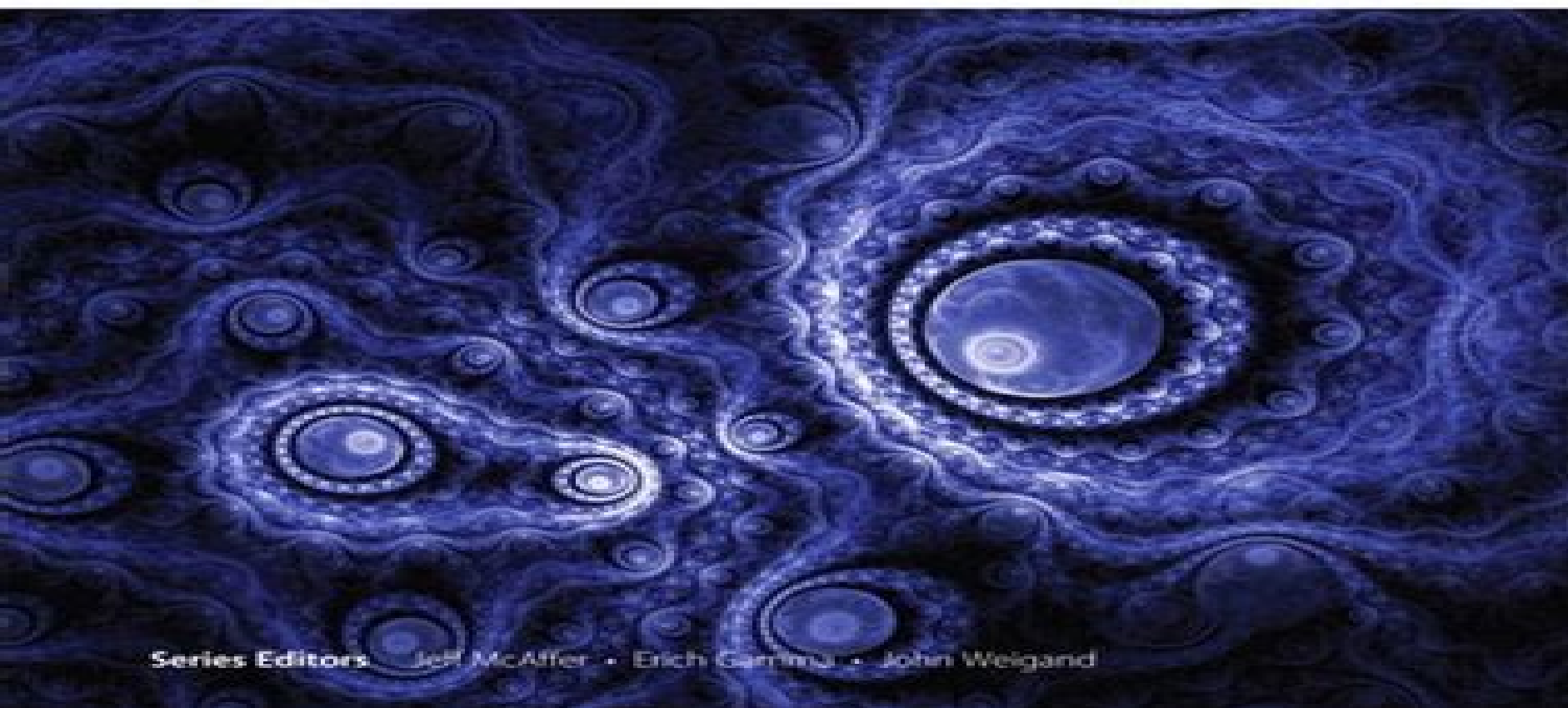# OSGi and Equinox
Creating Highly Modular Java™ Systems

Jeff McAffer · Paul VanderLei · Simon Archer

Series Editors   Jeff McAffer · Erich Gamma · John Weigand

Osgi And Equinox Creating Highly Modular Java Systems

Craig Walls

Osgi And Equinox Creating Highly Modular Java Systems:

   OSGi and Equinox Jeff McAffer,Paul VanderLei,Simon Archer,2010-02-15 A Hands On Guide to Equinox and the OSGi Framework In OSGI and Equinox Creating Highly Modular JavaTM Systems three leading experts show developers for the first time exactly how to make the most of these breakthrough technologies for building highly modular dynamic systems You ll quickly get started with Eclipse bundle tooling create your first OSGi based system and move rapidly to sophisticated production development Next you ll master best practices and techniques for creating systems with exceptional modularity and maintainability You ll learn all about OSGi s Declarative Services and how to use them to solve a wide variety of real world problems Finally you ll see everything that you ve learned implemented in a complete case study project that takes you from early prototype through application delivery For every Eclipse developer regardless of previous experience this book Combines a complete hands on tutorial online sample code at every step and deep technical dives for working developers Covers the OSGi programming model component development OSGi services Eclipse bundle tooling server side Equinox and much more Offers knowledge guidance and best practices for overcoming the complexities of building modular systems Addresses practical issues ranging from integrating third party code libraries to server side programming Includes a comprehensive case study that goes beyond prototyping to deliver a fully refined and refactored production system Whatever your application industry or problem domain if you want to build state of the art software systems with OSGi and Equinox you will find this book to be an essential resource   **OSGi and Equinox** Jeff McAffer,Paul VanderLei,Simon Archer,2010 A Hands On Guide to Equinox and the OSGi Framework In OSGI and Equinox Creating Highly Modular Java Systems three leading experts show developers for the first time exactly how to make the most of these breakthrough technologies for building highly modular dynamic systems You ll quickly get started with Eclipse bundle tooling create your first OSGi based system and move rapidly to sophisticated production development Next you ll master best practices and techniques for creating systems with exceptional modularity and maintainability You ll learn all about OSGi s Declarative Services and how to use them to solve a wide variety of real world problems Finally you ll see everything that you ve learned implemented in a complete case study project that takes you from early prototype through application delivery For every Eclipse developer regardless of previous experience this book Combines a complete hands on tutorial online sample code at every step and deep technical dives for working developers Covers the OSGi programming model component development OSGi services Eclipse bundle tooling server side Equinox and much more Offers knowledge guidance and best practices for overcoming the complexities of building modular systems Addresses practical issues ranging from integrating third party code libraries to server side programming Includes a comprehensive case study that goes beyond prototyping to deliver a fully refined and refactored production system Whatever your application industry or problem domain if you want to build state of the art software systems with OSGi and Equinox you will find this book to be an essential resource   **Equinox and Osgi** Jeff

McAffer,Jeff,Paul VanderLei,Simon Archer,2009-03-27 <u>Eclipse Rich Client Platform</u> Jeff McAffer,Jean-Michel Lemieux,Chris Aniszczyk,2010-05-12 The Definitive Guide to Eclipse Rich Client Development In Eclipse Rich Client Platform Second Edition three Eclipse Rich Client Platform RCP project leaders show how to use Eclipse 3 5 Galileo to rapidly deliver cross platform applications with rich native feel GUIs The authors fully reveal the power of Eclipse as a desktop application development platform introduce important new improvements in Eclipse 3 5 and walk through developing a full featured branded RCP application for Windows Linux Mac and other platforms including handheld devices and kiosks Drawing on their extensive experience the authors cover building refining and refactoring prototypes customizing user interfaces adding help and software management features and building branding testing and shipping finished software They demonstrate current best practices for developing modular and dynamically extensible systems using third party code libraries packaging applications for diverse environments and much more For Java programmers at all levels of experience this book Introduces important new RCP features such as p2 Commands and Databinding Thoroughly covers key RCP related technologies such as Equinox SWT JFace and OSGi Shows how to effectively brand and customize RCP application look and feel Walks through user interface testing for RCP applications with SWTBot Illuminates key similarities and differences between RCP and conventional plug in development Hands on pragmatic and comprehensive this book offers all the real world nontrivial code examples working developers need as well as deep dives into key technical areas that are essential to your success

Computer Vision Systems James L. Crowley,Bruce Draper,Monique Thonnat,2011-09-09 This book constitutes the refereed proceedings of the 8th International Conference on Computer Vision Systems ICVS 2011 held in Sophia Antipolis France in September 2009 The 22 revised papers presented were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on vision systems control of perception performance evaluation activity recognition and knowledge directed vision <u>Software for People</u> Alexander Maedche,Achim Botzenhardt,Ludwig Neer,2012-09-15 The highly competitive and globalized software market is creating pressure on software companies Given the current boundary conditions it is critical to continuously increase time to market and reduce development costs In parallel driven by private life experiences with mobile computing devices the World Wide Web and software based services peoples general expectations with regards to software are growing They expect software that is simple and joyful to use In the light of the changes that have taken place in recent years software companies need to fundamentally reconsider the way they develop and deliver software to their customers This book introduces fundamentals trends and best practices in the software industry from a threefold perspective which equally takes into account design management and development of software It demonstrates how cross functional integration can be leveraged by software companies to successfully build software for people Professionals from business and academia give an overview on state of the art knowledge and report on key insights from their real life experience They provide guidance and hands on recommendation on how to create winning products This

combined perspective fosters the transfer of knowledge between research and practice and offers a high practical value for both sides The book targets both practitioners and academics looking for successfully building software in the future It is directed at Managing Directors of software companies Software Project Managers Product Managers and Designers Software Developers as well as academics and students in the area of Software and Information Systems Engineering Human Computer Interaction HCI and Innovation Management **Software Architecture** Carlos E. Cuesta,David Garlan,Jennifer Pérez,2018-09-19 This book constitutes the refereed proceedings of the 12th European Conference on Software Architecture ECSA 2018 held in Madrid Spain in September 2018 The 17 full papers presented together with 7 short papers were carefully reviewed and selected from 96 submissions They are organized in topical sections as follows Self Adaptive Architectures IoT Architectures Embedded and Cyber Physical Systems Microservices Architectures Service Oriented Architectures Architectural Design Decisions Software Architecture in Practice **12th International Symposium on Process Systems Engineering and 25th European Symposium on Computer Aided Process Engineering** ,2015-07-14 25th European Symposium on Computer Aided Process Engineering contains the papers presented at the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Joint Event held in Copenhagen Denmark 31 May 4 June 2015 The purpose of these series is to bring together the international community of researchers and engineers who are interested in computing based methods in process engineering This conference highlights the contributions of the PSE CAPE community towards the sustainability of modern society Contributors from academia and industry establish the core products of PSE CAPE define the new and changing scope of our results and future challenges Plenary and keynote lectures discuss real world challenges globalization energy environment and health and contribute to discussions on the widening scope of PSE CAPE versus the consolidation of the core topics of PSE CAPE Highlights how the Process Systems Engineering Computer Aided Process Engineering community contributes to the sustainability of modern society Presents findings and discussions from both the 12th Process Systems Engineering PSE and 25th European Society of Computer Aided Process Engineering ESCAPE Events Establishes the core products of Process Systems Engineering Computer Aided Process Engineering Defines the future challenges of the Process Systems Engineering Computer Aided Process Engineering community **OSGi in Action** Karl Pauls,David Savage,Stuart McCulloch,Richard Hall,2011-04-05 What is OSGi Simply put OSGi is a standardized technology that allowsdevelopers to create the highly modular Java applications that are required forenterprise development OSGi lets you install start stop update or uninstallcomponents without taking down your entire system The interest in OSGi basedapplications has exploded since major vendors like Sun Spring Oracle BEA and IBM have gotten behind the standard OSGi in Action is a comprehensive guide to OSGi with two primary goals First it provides a clear introduction to OSGi concepts with examples that arerelevant both for architects and developers Then it explores numerous practicalscenarios and techniques answering questions like How much of OSGi doyou

actually need How do you embed OSGi inside other containers What arethe best practices for moving legacy systems to OSGi Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book   **Java Application Architecture** Kirk Knoernschild,2012-03-16 I m dancing By god I m dancing on the walls I m dancing on the ceiling I m ecstatic I m overjoyed I m really really pleased From the Foreword by Robert C Martin a k a Uncle Bob This isn t the first book on Java application architecture No doubt it won t be the last But rest assured this title is different The way we develop Java applications is about to change and this title explores the new way of Java application architecture Over the past several years module frameworks have been gaining traction on the Java platform and upcoming versions of Java will include a module system that allows you to leverage the power of modularity to build more resilient and flexible software systems Modularity isn t a new concept But modularity will change the way we develop Java applications and you ll only be able to realize the benefits if you understand how to design more modular software systems Java Application Architecture will help you Design modular software that is extensible reusable maintainable and adaptable Design modular software today in anticipation of future platform support for modularity Break large software systems into a flexible composite of collaborating modules Understand where to place your architectural focus Migrate large scale monolithic applications to applications with a modular architecture Articulate the advantages of modular software to your team Java Application Architecture lays the foundation you ll need to incorporate modular design thinking into your development initiatives Before it walks you through eighteen patterns that will help you architect modular software it lays a solid foundation that shows you why modularity is a critical weapon in your arsenal of design tools Throughout you ll find examples that illustrate the concepts By designing modular applications today you are positioning yourself for the platform and architecture of tomorrow That s why Uncle Bob is dancing   **Modular Java** Craig Walls,2009 Modular Java is a pragmatic guide to developing modular applications using OSGi the framework for dynamic modularity in Java and Spring Dynamic Modules an OSGi extension to the Spring Framework   *Modular Java* Craig Walls,2014-10-28 Attack complexity in your Java applications using Modular Java This pragmatic guide introduces you to OSGi and Spring Dynamic Modules two of the most compelling frameworks for Java modularization Driven by real world examples this book will equip you with the know how you need to develop Java applications that are composed of smaller loosely coupled highly cohesive modules The secret weapon for attacking complexity in any project is to break it down into smaller cohesive and more easily digestible pieces With Modular Java you can easily develop applications that are more flexible testable maintainable and comprehensible Modular Java is a pragmatic guide to developing modular applications using OSGi the framework for dynamic modularity in Java and Spring Dynamic Modules an OSGi extension to the Spring Framework You ll start with the basics but quickly ramp up creating loosely coupled modules that publish and consume services and you ll see how to compose them into larger applications Along the way you ll apply what you learn as you build a complete web application

that is made up of several OSGi modules using Spring DM to wire those modules together Modular Java is filled with tips and tricks that will make you a more proficient OSGi and Spring DM developer Equipped with the know how gained from this book you ll be able to develop applications that are more robust and agile **Enterprise OSGi in Action** Holly Cummins,Timothy Ward,2013-04-06 Summary Enterprise OSGI in Action is a hands on guide for developers using OSGi to build the next generation of enterprise Java applications By presenting relevant examples and case studies this book guides the reader through the maze of new standards and projects About This Book Enterprise OSGi is a set of standards for building modular Java applications which integrate seamlessly with existing Java EE technologies It extends the OSGi component framework to distributed systems Enterprise OSGi in Action is a hands on guide for developers using OSGi to build enterprise Java applications Many examples and case studies show you how to build test and deploy modular web applications The book explains how to take advantage of dynamism distribution and automatic dependency provisioning while still integrating with existing Java EE applications The book is written for Java EE developers No prior experience with OSGi is required What s Inside Build modular applications using servlets JSPs WARs and JPA Better component reuse and robustness Expert tips for Apache Aries Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Authors Holly Cummins and Tim Ward are lead engineers who regularlyspeak at developerWorks Devoxx JavaZone and EclipseCon Tim has written standards in both the OSGi Core and Enterprise Specifications and both authors are active Apache Aries committers Table of Contents PART 1 PROGRAMMING BEYOND HELLO WORLD OSGi and the enterprise why now Developing a simple OSGi based web application Persistence pays off Packaging your enterprise OSGi applications PART 2 BUILDING BETTER ENTERPRISE OSGI APPLICATIONS Best practices for enterprise applications Building dynamic applications with OSGi services Provisioning and resolution Tools for building and testing IDE development tools PART 3 INTEGRATING ENTERPRISE OSGI WITH EVERYTHING ELSE Hooking up remote systems with distributed OSGi Migration and integration Coping with the non OSGi world Choosing a stack **Mastering Eclipse Plug-in Development** Dr Alex Blewitt,2014-08-26 If you are a Java developer who is familiar with the Eclipse plug in environment this book covers the advanced concepts that you need to know to achieve true expertise Prior experience in creating Eclipse plug ins is assumed for this book **Instant Osgi Starter** Johan Edstrom,Jamie Goodyear,2013-01-01 Using a practical approach with explanation where needed the book will take an in depth look at what OSGi is and what it offers to Java programmers and development standards OSGi Starter is intended for the senior Java programmer whom will be joining OSGi based projects or for Architects looking to broaden their exposure to OSGi as a beneficial framework and runtime software system *Enterprise OSGi In Action* Holly Cummins,Timothy Ward,2013-03-27 Summary Enterprise OSGI in Action is a hands on guide for developers using OSGi to build the next generation of enterprise Java applications By presenting relevant examples and case studies this book guides the reader through the maze of new standards and projects

About This Book Enterprise OSGi is a set of standards for building modular Java applications which integrate seamlessly with existing Java EE technologies It extends the OSGi component framework to distributed systems Enterprise OSGi in Action is a hands on guide for developers using OSGi to build enterprise Java applications Many examples and case studies show you how to build test and deploy modular web applications The book explains how to take advantage of dynamism distribution and automatic dependency provisioning while still integrating with existing Java EE applications The book is written for Java EE developers No prior experience with OSGi is required What s Inside Build modular applications using servlets JSPs WARs and JPA Better component reuse and robustness Expert tips for Apache Aries Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Authors Holly Cummins and Tim Ward are lead engineers who regularlyspeak at developerWorks Devoxx JavaZone and EclipseCon Tim has written standards in both the OSGi Core and Enterprise Specifications and both authors are active Apache Aries committers Table of Contents PART 1 PROGRAMMING BEYOND HELLO WORLD OSGi and the enterprise why now Developing a simple OSGi based web application Persistence pays off Packaging your enterprise OSGi applications PART 2 BUILDING BETTER ENTERPRISE OSGI APPLICATIONS Best practices for enterprise applications Building dynamic applications with OSGi services Provisioning and resolution Tools for building and testing IDE development tools PART 3 INTEGRATING ENTERPRISE OSGI WITH EVERYTHING ELSE Hooking up remote systems with distributed OSGi Migration and integration Coping with the non OSGi world Choosing a stack   Java 9 Modularity Sander Mak,Paul Bakker,2017-09-07 The upcoming Java 9 module system will affect existing applications and offer new ways of creating modular and maintainable applications With this hands on book Java developers will learn not only about the joys of modularity but also about the patterns needed to create truly modular and reliable applications Authors Sander Mak and Paul Bakker teach you the concepts behind the Java 9 module system along with the new tools it offers You ll also learn how to modularize existing code and how to build new Java applications in a modular way Understand Java 9 module system concepts Master the patterns and practices for building truly modular applications Migrate existing applications and libraries to Java 9 modules Use JDK 9 tools for modular development and migration   The Java Module System Nicolai Parlog,2019-06-26 Summary Java s much awaited Project Jigsaw is finally here Java 11 includes a built in modularity framework and The Java Module System is your guide to discovering it In this new book you ll learn how the module system improves reliability and maintainability and how it can be used to reduce tight coupling of system components Foreword by Kevlin Henney Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications You ll find registration instructions inside the print book About the Technology Packaging code into neat well defined units makes it easier to deliver safe and reliable applications The Java Platform Module System is a language standard for creating these units With modules you can closely control how JARs interact and easily identify any missing dependencies at startup This shift in design is so fundamental that starting with Java 9 all core Java APIs are

distributed as modules and libraries frameworks and applications will benefit from doing the same About the Book The Java Module System is your in depth guide to creating and using Java modules With detailed examples and easy to understand diagrams you ll learn the anatomy of a modular Java application Along the way you ll master best practices for designing with modules debugging your modular app and deploying to production What s inside The anatomy of a modular Java app Building modules from source to JAR Migrating to modular Java Decoupling dependencies and refining APIs Handling reflection and versioning Customizing runtime images Updated for Java 11 About the Reader Perfect for developers with some Java experience About the Author Nicolai Parlog is a developer author speaker and trainer His home is codefx org Table of Contents PART 1 Hello modules First piece of the puzzle Anatomy of a modular application Defining modules and their properties Building modules from source to JAR Running and debugging modular applications PART 2 Adapting real world projects Compatibility challenges when moving to Java 9 or later Recurring challenges when running on Java 9 or later Incremental modularization of existing projects Migration and modularization strategies PART 3 Advanced module system features Using services to decouple modules Refining dependencies and APIs Reflection in a modular world Module versions What s possible and what s not Customizing runtime images with jlink Putting the pieces together **Java 9 Modularity Revealed** Alexandru Jecan,2017-09-27 Develop modular applications using the Java Platform Module System the single most anticipated feature in Java 9 You will improve maintainability and performance of your Java applications by deploying only modules that are needed and encapsulating their implementation details Until now Java has been monolithic Using any one part of Java has meant incorporating the entirety of the runtime environment an approach ill suited to the increasing number of IoT devices such as fitness monitors kitchen appliances toys and games and so forth This book shows a new way to make Java scale from the smallest of footprints in the smallest of devices through desktop PCs and on up to server platforms With Java 9 Modularity Revealed you will learn to make your projects more reliable and scalable than ever using the most important feature in Java 9 The Java Platform Module System known more commonly as Project Jigsaw You will learn how to avoid one of the major pain points of Java programming that of conflicting class names from different modules or packages You will learn to create custom run time images that represent a minimal and more compact JRE containing only those modules that you need You will further learn to migrate existing Java applications to modular ones using different approaches and tools The end result is a new ability to plug together different modules without fear of namespace and other conflicts and you can deploy to everything from small devices to large servers This book provides code examples and explanations What You ll Learn Build Java applications using the new modular system introduced in Java 9 Create your own JRE consisting only of the modules that you require Adapt your testing techniques toward modular applications lare your dependencies on other modules Enable modules to export only specific packages Migrate existing Java applications to modular ones Improve maintainability and performance of Java applications Who This Book Is For Experienced Java

programmers wanting to keep up and become informed on the new modularity support in Java 9 **Java 9 Modularity Unveiled: Crafting Scalable Applications** Peter Jones,2025-01-09 Dive into the nuanced world of Java 9 modularity with our comprehensive guide Java 9 Modularity Unveiled Crafting Scalable Applications This indispensable resource is crafted for developers and architects aiming to master the modular system introduced in Java 9 offering a detailed exploration of creating maintaining and evolving modular Java applications From setting up a modular environment and understanding module declarations to advanced techniques and migration strategies this book covers all the essential topics Each chapter unfolds with examples practical scenarios and in depth analysis to transform theory into actionable insights making complex concepts accessible Whether you re aiming to upgrade existing applications or build efficient new systems this book is your go to roadmap for leveraging Java s modularity features to construct scalable maintainable and high performing applications Embrace modularity to enhance code readability improve system agility and stay ahead in the evolving landscape of Java development

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