Developing Enterprise Applications with Spring

An End-to-End Approach

Henry H. Liu



Spring For Developing Enterprise Applications An End To End Approach

Chen Ping

Spring For Developing Enterprise Applications An End To End Approach:

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recipes for conquering every stage of microservice deployment KEY FEATURES Develop test build and deploy with cloud native microservices Orchestrate microservices with containerization in the cloud Ensure cloud observability and security in implementation DESCRIPTION The convergence of microservices and cloud technology represents a significant paradigm shift in software development To fully leverage the potential of both integration from the outset of application development is crucial Cloud native microservices cookbook serve as a conduit harmonizing disparate elements of microservice construction by establishing a cohesive framework from inception to deployment This book meticulously outlines the various stages involved in launching an application utilizing cloud native microservices It commences with the foundational aspects of application development emphasizing microservice architecture principles such as configuration and service discovery considering cloud infrastructure Progressing through containerization continuous integration CI and continuous deployment CD pipelines the book explores the intricacies of orchestration high availability HA auto scalability and cloud security Subsequently it elucidates the significance of observability in monitoring microservices post deployment concluding with a comprehensive exploration of Infrastructure as Code IaC for cloud infrastructure provisioning Explore cloud native microservices basics using real world examples from the finance sector Follow curated recipes from concept to cloud deployment for a clear understanding and smooth application development WHAT YOU WILL LEARN Learn the fundamental principles of data architecture Practical methodology encompassing the development testing building containerization and orchestration of microservices Software development spanning from initial design to cloud hosting Achieve microservice auto scalability and high availability Utilizing cloud services and experimenting with newfound services confidently Meticulously track cloud expenditures alleviating any apprehension surrounding cost management WHO THIS BOOK IS FOR The book is ideal for software developers solution designers and DevOps engineers with a foundational understanding of programming concepts and professionals seeking to deepen their expertise in system architecture and full stack development within cloud environments TABLE OF CONTENTS 1 Microservices and Cloud 2 Developing Microservices and Test Cases 3 Externalize Application Configurations 4 Implementing Dynamic Services 5 Containerization Using Docker 6 Pipeline Automation for CI CD 7 Microservices Orchestration 8 Auto Scalability High Availability and Disaster Recovery 9 Cloud Security 10 Observability 11 Infrastructure Automation with IaC Java Real World Projects Davi Vieira, 2024-12-23 DESCRIPTION Java continues to be a key technology for building powerful applications in today s fast changing tech world This book helps you connect theory with practice teaching you the skills to create real world Java projects With a clear learning path you will learn the tools and techniques needed to tackle complex software development challenges with confidence This book inspired by real world Java projects starts with Java fundamentals covering core APIs modern features database handling and automated testing It explores frameworks like Spring Boot Quarkus and Jakarta EE for enterprise cloud native applications Employ container technologies like Docker and Kubernetes for scalable deployments To tackle production challenges the

book will look deeply into monitoring and observability helping developers understand application performance under unexpected conditions It concludes with maintainability issues introducing architectural concepts like domain driven design DDD layered architecture and hexagonal architecture offering a roadmap for creating scalable and maintainable Java applications By the end of this book you will feel confident as a Java developer ready to handle real world challenges and work on modern software projects You will have a strong understanding of Java basics modern tools and best practices preparing you for a successful career in Java development KEY FEATURES Learn software development approaches used in real Java projects Acquire cloud native and enterprise software development skills Develop modern Java systems with cutting edge frameworks WHAT YOU WILL LEARN Efficient application of core Java API capabilities Modern Java development with features like virtual threads sealed classes and records Understanding of the Spring Boot Quarkus and Jakarta EE frameworks Monitoring and observability with Prometheus Grafana and Elasticsearch Using DDD layered architecture and hexagonal architecture to improve maintainability WHO THIS BOOK IS FOR This book is ideal for aspiring and intermediate Java developers including students software engineers and anyone seeking to enhance their Java skills Prior experience with basic programming concepts and a foundational understanding of Java are recommended TABLE OF CONTENTS 1 Revisiting the Java API 2 Exploring Modern Java Features 3 Handling Relational Databases with Java 4 Preventing Unexpected Behaviors with Tests 5 Building Production Grade Systems with Spring Boot 6 Improving Developer Experience with Quarkus 7 Building Enterprise Applications with Jakarta EE and MicroProfile 8 Running Your Application in Cloud Native Environments 9 Learning Monitoring and Observability Fundamentals 10 Implementing Application Metrics with Micrometer 11 Creating Useful Dashboards with Prometheus and Grafana 12 Solving problems with Domain driven Design 13 Fast Application Development with Layered Architecture 14 Building Applications with Hexagonal Architecture Developing Enterprise Applications With Spring Henry H. Liu, 2012-11-10 This book adopts a unique approach to helping enterprise Java developers learn Spring 4 fast Rather than filled with disjointed piecemeal samples to show Spring features one at a time it is designed to base your total Spring learning experience on a functioning end to end integrated sample named SOBA Secure Online Banking Application which runs on any one of the three operating systems Windows Linux and Mac OS X any one of the four Java App Servers Tomcat GlassFish JBoss and WebLogic and any one of the four RDBMS MySQL PostgreSQL Oracle and SQL Server The book also includes another standalone sample application named MyNotes which is simpler than SOBA Specifically this book helps you learn the following latest Spring technologies Spring Core Framework Spring MVC Web Framework Spring Data Access Framework JDBC and Hibernate Spring RESTful Web Services Framework Spring Security Framework Spring Transaction Management Framework Spring Validation Framework Spring Aspect Oriented Programming AOP Framework Spring Testing Spring Integration with EJB Spring Web Flow Framework At the end of your learning experience with this book you will gain truly applicable skills and will be able to start contributing to the success of

your Spring based enterprise application project immediately **Expert One-on-One I2EE Development without EIB** Rod Johnson, 2004-07-02 What is this book about Expert One on One J2EE Development without EJB shows Java developers and architects how to build robust J2EE applications without having to use Enterprise JavaBeans EJB This practical code intensive guide provides best practices for using simpler and more effective methods and tools including JavaServer pages servlets and lightweight frameworks What does this book cover The book begins by examining the limits of EJB technology what it does well and not so well Then the authors guide you through alternatives to EJB that you can use to create higher quality applications faster and at lower cost both agile methods as well as new classes of tools that have evolved over the past few years They then dive into the details showing solutions based on the lightweight framework they pioneered on SourceForge one of the most innovative open source communities They demonstrate how to leverage practical techniques and tools including the popular open source Spring Framework and Hibernate This book also guides you through productive solutions to core problems such as transaction management persistence remoting and Web tier design You will examine how these alternatives affect testing performance and scalability and discover how lightweight architectures can slash time and effort on many projects What will you learn from this book Here are some details on what you ll find in this book How to find the simplest and most maintainable architecture for your application Effective transaction management without EJB How to solve common problems in enterprise software development using AOP and Inversion of Control Web tier design and the place of the Web tier in a well designed J2EE application Effective data access techniques for J2EE applications with JDBC Hibernate and JDO How to leverage open source products to improve productivity and reduce custom coding How to design for optimal performance and scalability LEARN EVERYTHING ABOUT JAVASCRIPT, PYTHON, JAVA, CE SQL Marcel Pacheco, Master the most influential programming languages of the modern era with this comprehensive and in depth guide Learn Everything About JavaScript Python Java C and SQL takes readers from foundational logic and data structures to building complete applications integrating multiple languages With a hands on practical approach this book explores each language s main features market applications best practices and real world project development Perfect for beginners and professionals aiming to expand their technical skills and seize new opportunities in the tech industry Oriented Development and Assembly Piram Manickam, S. Sangeetha, S. V. Subrahmanya, 2013-12-04 Although industry has been leveraging the advancements of component oriented development and assembly CODA technology for some time there has long been a need for a book that provides a complete overview of the multiple technologies that support CODA Filling this need Component Oriented Development and Assembly supplies comprehensive coverage of the principles practice and paradigm of component oriented development and assembly The first part of the book provides the conceptual foundation for component oriented software Part II focuses on the various standard Java component models and describes how to develop a component oriented system using these component models Part III covers the various aspects of the component oriented

development paradigm Based on the authors research and teaching experience the text focuses on the principles of component oriented software development from a technical concepts perspective designer s perspective programmer s perspective and manager's perspective Covering popular component development frameworks based on Java it is suitable as a textbook for component oriented software for undergraduate and postgraduate courses It is also an ideal reference for anyone looking to adopt the component oriented development paradigm The book provides readers with access to all the source code used in the book on a companion site http www codabook com The source code for the CODA implementation of the case study presented in Chapter 11 is also hosted on the website The website will also serve as a technical forum for further discussions on the topic and for any updates to the book ITEI 2022 Azah Kamilah Draman, Nadeem Akhtar, Mohd. Faizal Abdollah, 2023-06-14 This volume contains the papers presented at the 2nd International Conference on Internet Technology and Educational Informatization ITEI 2022 held during December 23th 25th 2023 in Harbin China Today the rapid development in Internet and education technology poses new challenges to scientists that requires innovative approach and methodology or eventually new educational theories Internet technology is the prerequisite for educational informatization to be realized The specific Conference topics include Artificial Intelligence in Education User Interfaces and Human Computer Interaction Distance Education for Computers Computer Application in Social and Behavioural Sciences Pedagogy Enhancement with E Learning Accessibility to Disabled Users etc Also the Conference is intended to give students and research groups the opportunity to learn more about Internet Technology and Educational Informatization as an important tool in their applications and development There were about 150 participants from countries all over the world attended the conference and they attended the presentations by scholars representing both institutes and academia The scientific program consisted of in total 5 talks as well as many oral and poster presentations Five talks were invited keynote speakers given by Pun Chi Man University of Macau China Yongjun Feng Shaanxi Normal University China Philippe Fournier Viger Shenzhen University China Rafidah Md Noor Universiti Malaya Malaysia and Khe Foom HEW The University of Hong Kong China Titles included Privacy Protection in Video Live Streaming Research of Education Metaverse and Metaverse Education Take E Course Explosion as the Center Advances and Challenges for the Discovery of Interesting Patterns in Network and Educational Data The Rise of Mobile and Internet Technology in Higher Education and Remote Learning and Engaging Students in Online Learning Activities Using Chatbots Business Modeling and Software Design Boris Shishkov, 2021-07-01 This book constitutes the refereed proceedings of the 11th International Symposium on Business Modeling and Software Design BMSD 2021 which took place in Sofia Bulgaria in July 2021 The 14 full and 13 short papers included in this book were carefully reviewed and selected from a total of 61 submissions BMSD is a leading international forum that brings together researchers and practitioners interested in business modeling and its relation to software design Particular areas of interest are Business Processes and Enterprise Engineering Business Models and Requirements Business

Models and Services Business Models and Software Information Systems Architectures and Paradigms Data Aspects in Business Modeling and Software Development Blockchain Based Business Models and Information Systems IoT and Implications for Enterprise Information Systems The BMSD 2021 theme was Towards Enterprises and Software that are Resilient against Disruptive Events Agile Estimation Techniques and Innovative Approaches to Software Process Improvement Colomo-Palacios, Ricardo, Calvo-Manzano Villalón, Jose Antonio, de Amescua Seco, Antonio, San Feliu Gilabert, Tomás, 2014-02-28 Applying methodologies of Software Process Improvement SPI is an effective way for businesses to remain competitive in the software industry However many organizations find implementing software process initiatives challenging Agile Estimation Techniques and Innovative Approaches to Software Process Improvement reviews current SPI techniques and applications through discussions on current and future trends as well as the presentation of case studies on SPI implementation Ideal for use by academics students and policy makers as well as industry professionals and managers this publication provides a complete overview of current tools and methodologies regarding Software Process Improvement

Data Science and Applications Satyasai Jagannath Nanda, Rajendra Prasad Yadav, Amir H. Gandomi, Mukesh Saraswat, 2024-01-17 This book gathers outstanding papers presented at the International Conference on Data Science and Applications ICDSA 2023 organized by Soft Computing Research Society SCRS and Malaviya National Institute of Technology Jaipur India from 14 to 15 July 2023 The book is divided into four volumes and it covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing Developing Enterprise Java Applications with Spring Frameworks Henry H. Liu, 2012

Hypermodelling Tim Frey,2013 Research Handbook on Information Systems and Technology Arti Jain, John Wang, Arun K. Yadav,2025-08-11 This insightful Research Handbook examines the role of Information Systems Technology IS T across multiple fields including artificial intelligence cloud computing business intelligence and mobile communication It discusses the ethical implications of IS T including risks to privacy and security and outlines potential solutions to these challenges Contributing authors illustrate the complex and rapidly evolving state of the field analysing case studies that demonstrate the transformative impact of technology on global business organizations LEARN ALL ABOUT PROGRAMMING Marcel Souza, Embark on an exciting journey into the world of programming with Learn All About Programming Whether you re a complete beginner or looking to enhance your coding skills this comprehensive guide is your ultimate companion to mastering the art of programming Explore the fundamental concepts of coding from basic syntax to complex algorithms This book serves as your roadmap guiding you through various programming languages including Python Java C and SQL Unlock the ability to create dynamic websites streamline data processing and develop user friendly

applications that leave a lasting impact But the adventure doesn t end there delve into advanced techniques that push the boundaries of your programming expertise Dive into modern concepts like machine learning artificial intelligence and data analysis and discover how to transform raw data into valuable insights Whether you re a coding newbie or an experienced enthusiast Learn All About Programming equips you with the tools to turn your ideas into functional code Don t miss out on this opportunity to become a programming virtuoso Grab your copy now and immerse yourself in the captivating world of programming Your journey to coding excellence starts here The Business Value of Agile Software Methods David F. Rico, Hasan H. Sayani, Saya Sone, 2009-10-15 Whether to continue using traditional cost and benefit analysis methods such as systems and software engineering standards or to use a relatively new family of software development processes known as Agile methods is one of most prevalent questions within the information technology field today Since each family of methods has its strengths and weaknesses the question being raised by a growing number of executives and practitioners is Which family of methods provides the greater business value and return on investment ROI Whereas traditional methods have been in use for many decades Agile methods are still a new phenomenon and until now very little literature has existed on how to quantify the business value of Agile methods in economic terms such as ROI and net present value NPV Using cost of quality total cost of ownership and total life cycle cost parameters The Business Value of Agile Software Methods offers a comprehensive methodology and introduces the industry's initial top down parametric models for quantifying the costs and benefits of using Agile methods to create innovative software products Based on real world data it illustrates the first simple to use parametric models of Real Options for estimating the business value of Agile methods since the inception of the Nobel prize winning Black Scholes formulas Numerous examples on how to estimate the costs benefits ROI NPV and real options of the major types of Agile methods such as Scrum Extreme Programming and Crystal Methods are also included In addition this reference provides the first comprehensive compilation of cost and benefit data on Agile methods from an analysis of hundreds of research studies The Business Value of Agile Software Methods shatters key myths and misconceptions surrounding the modern day phenomenon of Agile methods for creating innovative software products It provides a complete business value comparison between traditional and Agile methods The keys to maximizing the business value of any method are low costs and high benefits and the business value of Agile methods when compared to traditional methods proves to be very impressive Agile methods are a new model of project management that can be used to improve the success business value and ROI of high risk and highly complex IT projects in today s dynamic turbulent and highly uncertain marketplace If you are an executive manager scholar student consultant or practitioner currently on the fence you need to read this book

Exploring Higher Vocational Software Technology Education Chen Ping, 2024-09-30 Exploring Higher Vocational Software Technology Education offers a comprehensive analysis of the current landscape of software technology education in Chinese vocational colleges It addresses the challenges and opportunities in cultivating skilled software professionals in the

rapidly evolving digital economy The book covers key areas such as curriculum design practical teaching and faculty development providing actionable insights for educators administrators and policymakers Through comparative analysis with international best practices it offers recommendations for optimizing software technology education to better meet industry demands The book also features case studies highlighting innovative approaches such as school enterprise collaboration and project driven learning which are essential in bridging the gap between theory and practice This work serves as a valuable reference not only for Chinese educators but also for an international audience interested in understanding China s vocational education model and how it can inform global education reform Whether you re an academic a practitioner or a policymaker this book offers practical pathways for enhancing the quality of technical talent development in today s competitive global market

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Spring For Developing Enterprise Applications An End To End Approach**

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