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Middleware Apr 27 2020 Middleware is a layer of software situated between the operating system and the applications, permitting them to exchange information among themselves. It constitutes the infrastructure of an information system onto which pieces of software are placed and connected to each other. This book explains the basics of middleware and looks at the importance of middleware in the design of complex information systems, including the close overlap between middleware and the Internet.

[Interoperability of Enterprise Software and Applications](#) Jul 11 2021 Interoperability: the ability of a system or a product to work with other systems or products without special effort from the user is a

key issue in manufacturing and industrial enterprise generally. It is fundamental to the production of goods and services quickly and at low cost at the same time as maintaining levels of quality and customisation. Composed of 40 papers of international authorship, Interoperability of Enterprise Software and Applications ranges from academic research through case studies to industrial experience of interoperability. Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas. A concise reference to the state of the art in software interoperability, Interoperability of Enterprise Software and Applications will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment.

Java EE and HTML5 Enterprise Application Development May 09 2021
Create Next-Generation Enterprise Applications Build and distribute business web applications that target both desktop and mobile devices. Cowritten by Java EE and NetBeans IDE experts, Java EE and HTML5 Enterprise Application Development fully explains cutting-edge, highly responsive design tools and strategies. Find out how to navigate NetBeans IDE, construct HTML5 programs, employ JavaScript APIs, integrate CSS and WebSockets, and handle security. This Oracle Press guide also offers practical coverage of SaaS, MVVM, and RESTful concepts. Explore HTML5 and Java EE 7 features Use NetBeans IDE editors, templates, and code generators Implement MVVM functionality with Knockout.js Dynamically map database objects using Java Persistence API Configure, manage, and invoke RESTful Web Services Maximize messaging efficiency through WebSockets Accept and process HTML5 Server-Sent Events streams Employ Syntactically Awesome Stylesheets, CSS3, and Sassy CSS

Microsoft .NET - Architecting Applications for the Enterprise Mar 07 2021 A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for managing project complexity—and improving your results. But the principles and practices of software architecting—what the authors call the “science of hard decisions”—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success—and deliver more successful solutions. In this fully updated Second Edition, you will: Learn how only a deep understanding of domain can lead to appropriate architecture Examine domain-driven design in both theory and implementation Shift your approach to code first, model later—including multilayer architecture Capture the benefits of prioritizing software maintainability See how readability, testability, and extensibility lead to code quality Take a user experience (UX) first approach, rather than designing for data

Review patterns for organizing business logic Use event sourcing and CQRS together to model complex business domains more effectively Delve inside the persistence layer, including patterns and implementation.

Enterprise Integration Patterns Mar 27 2020 A collection of hands-on lessons based upon the authors' considerable experience in enterprise integration, the 65 patterns included with this guide show how to use message-oriented middleware to connect enterprise applications.

Enterprise Application Integration Feb 18 2022 Learn to utilize today's hottest EAI technologies to ensure interoperability across your organization What exactly is enterprise application integration (EAI)? What makes this \$300 million market so hot that it's expected to grow to \$6.5 billion in the next two years? How do you apply it in the real world? Whether you're an IT professional or systems architect, business manager or software developer, if you're looking into EAI as a solution for unifying applications and systems across the enterprise, then the answers are in this book. You'll find a complete and unbiased survey of the different technologies, architectures, and approaches available for EAI implementations, including pros and cons, clear explanations of all concepts, and first-rate guidance on how to choose the best EAI strategy for your company. The authors draw on their pioneering work with early implementations to show you how to: Define your specific integration problem in a useful form that enables a real solution Develop your own EAI architecture and ensure interoperability of legacy, stovepipe, COTS, client-server and modern technology applications Choose the best among messaging architecture, object architecture, and transaction architecture Work with the best implementation technologies, including Microsoft's COM+, the OMG's CORBA, and Sun's EJB Utilize the proven Secure Application Integration Methodology (SAIM) Wiley Tech Briefs Focused on the needs of the corporate IT and business manager, the Tech Briefs series provides in-depth information on a new or emerging technology, solutions, and vendor offerings available in the marketplace. With their accessible approach, these books will help you get quickly up-to-speed on a topic so that you can effectively compete, grow, and better serve your customers.

Enterprise Integration Patterns Oct 14 2021 Enterprise Integration Patterns provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what

the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

Developing .NET Enterprise Applications Jul 19 2019 The author Kanalakis gives in-depth and detailed guidance on how to build a single, scalable enterprise application with C# and using .NET technologies.

Enterprise Integration Patterns Nov 03 2020

Practical Enterprise Application Development Aug 20 2019 A hands-on practical guide disclosing all areas of Enterprise development, covering details about Jakarta EE with lots of examples to be run on the full distribution of WildFly application server or using WildFly Bootable Jar as a Microservice. The first part of the book covers everything from the foundation components (EJB, Servlets, CDI, JPA) to the new technology stack defined in Java Enterprise Edition (now Jakarta EE 8), including the new Batch API, JSON-P API, the Concurrency API, Web Sockets, the JMS 2.0 API, the core Web services stack (Jakarta REST Services, Jakarta SOAP Services). The testing area with Arquillian framework and the Security API is also fully covered in this part. At the end of this part, you will be able to create and deploy Enterprise applications on the top of Jakarta EE 8 runtimes (WildFly 21) and Jakarta EE 9 (WildFly 22 or newer). The second part of the book discusses how to integrate the Jakarta Enterprise API with the Microprofile specification, to provide essential services to develop robust microservices such as the Configuration API, the Health API, the Fault tolerance API, the OpenAPI and Tracing API, the Metrics API, JWT Authentication API and REST Client API. Finally, the third book covers how to build Microservices using WildFly Bootable jar technology and how to deploy them on the cloud with Red Hat OpenShift. What you will learn from this book: - Everything you need to know about Jakarta EE and MicroProfile API - How to set up your development environment to build Enterprise applications and Microservices on the top of WildFly. - How to use Maven plugin to simplify your project scaffolding - Learning the foundation components that constitute the backbone of your applications: EJB, CDI, JPA, JAX-RS, JAX-WS - Learn how to build loosely coupled applications using the straightforward JMS 2.0 API - Learn how to test your applications with Arquillian in

a managed environment, remote environment and even on the cloud! - Discover how to develop Concurrent and Compliant Enterprise applications using the Concurrency API and how to define Batch Jobs for your tasks. - Secure applications (Web/EJB) with standard and custom login modules. How to encrypt the communication of EJB applications and Web applications. - How to enhance your Jakarta EE stack with Microprofile API to build robust Microservices - How to turn your Jakarta EE applications in Microservices using WildFly bootable jar.

Enterprise Applications Administration Jun 22 2022 Enterprise Applications Administration prepares you for the full breadth of work associated with administering large enterprise applications. This book provides essential information on tasks such as operating systems administration, network design, system architecture, project planning, working within a team, protecting the network, and how to keep applications up and running. The book effectively bridges the gap between what is taught in the technology-specific literature and the real world of enterprise application administrators. Provides a general understanding of all key knowledge areas needed by enterprise application administrators Bridges the gap between technology-specific literature and the actual work being performed by enterprise application administrators Shows how to define and standardize processes and documentation to make enterprise application administration easier and more consistent

Patterns of Enterprise Application Architecture Sep 25 2022 A handbook for enterprise system developers guiding them through the intricacies and lessons learned in enterprise application development. Patterns are supported by code examples, in both Java and C#.

Enterprise Application Architecture with .NET Core Mar 19 2022 Architect and design highly scalable, robust, clean and highly performant applications in .NET Core About This Book Incorporate architectural soft-skills such as DevOps and Agile methodologies to enhance program-level objectives Gain knowledge of architectural approaches on the likes of SOA architecture and microservices to provide traceability and rationale for architectural decisions Explore a variety of practical use cases and code examples to implement the tools and techniques described in the book Who This Book Is For This book is for experienced .NET developers who are aspiring to become architects of enterprise-grade applications, as well as software architects who would like to leverage .NET to create effective blueprints of applications. What You Will Learn Grasp the important aspects and best practices of application lifecycle management Leverage the popular ALM tools, application insights, and their usage to monitor performance, testability, and optimization tools in an enterprise Explore various authentication models such as

social media-based authentication, 2FA and OpenID Connect, learn authorization techniques Explore Azure with various solution approaches for Microservices and Serverless architecture along with Docker containers Gain knowledge about the recent market trends and practices and how they can be achieved with .NET Core and Microsoft tools and technologies In Detail If you want to design and develop enterprise applications using .NET Core as the development framework and learn about industry-wide best practices and guidelines, then this book is for you. The book starts with a brief introduction to enterprise architecture, which will help you to understand what enterprise architecture is and what the key components are. It will then teach you about the types of patterns and the principles of software development, and explain the various aspects of distributed computing to keep your applications effective and scalable. These chapters act as a catalyst to start the practical implementation, and design and develop applications using different architectural approaches, such as layered architecture, service oriented architecture, microservices and cloud-specific solutions. Gradually, you will learn about the different approaches and models of the Security framework and explore various authentication models and authorization techniques, such as social media-based authentication and safe storage using app secrets. By the end of the book, you will get to know the concepts and usage of the emerging fields, such as DevOps, BigData, architectural practices, and Artificial Intelligence. Style and approach Filled with examples and use cases, this guide takes a no-nonsense approach to show you the best tools and techniques required to become a successful software architect.

Wireless Internet Enterprise Applications Oct 02 2020 Get a jump start on deploying next-generation Internet technologies in your business The rapid growth of wireless Internet technologies is changing not only the way we do business but also the way we must think about designing wireless and Web applications and services. This book provides a much-needed overview of the various technologies and business aspects of what is fast becoming a priority for corporate technical and nontechnical staff alike. Industry expert Chetan Sharma provides complete guidance on how to devise and implement a successful wireless Internet business plan, revealing the latest wireless hardware and software trends, solutions, and services. With his competent advice, you'll discover how the technology works and how to weigh business, technical, and cost issues when integrating wireless capabilities into your applications and services. You'll also be able to sail through the dizzying array of available business products, standards, and applications. Along with illustrations, references, and a useful listing of Web resources, you'll find easily accessible, up-to-the-minute discussions of: The history of wireless communication and where it's

heading Wireless Internet solutions for all major industries Enabling technologies such as WAP, VoiceXML, Position Location, Bluetooth, Personalization, Biometrics, and much more The major players in wireless Internet, including AT&T, NTT DoCoMo, Nokia, Palm, Phone.com, IBM, and many others

Patterns of Enterprise Application Architecture Aug 24 2022 Patterns of Enterprise Application Architecture By Martin Fowler

Building Java Enterprise Applications May 21 2022 Explores options for using J2EE technologies in the creation of scalable software, providing a case study on a database and focusing on selecting leading-edge technologies and implementing the sample system.

RAISING ENTERPRISE APPLICATIONS: A SOFTWARE ENGINEERING PERSPECTIVE (With CD) Jul 23 2022 Special Features: · Discusses knowledgebase and skill set required for enterprise application development using a case study· Defines a prescriptive technical architecture framework for raising a typical enterprise application· Provides mapping of typical application framework components to the software design patterns· Introduces the software construction map to bridge the gap between the designers and developers perspectives· Explains the layer-by-layer construction of enterprise applications · Discusses testing of enterprise applications, to understand various kinds of testing, in an exclusive chapter· Defines the concept map for key topics discussed in the book· Shares do s and don ts for the life cycle phases of raising enterprise applications· Provides tips on tools and technologies used to raise enterprise applications· Unfolds the overall journey of raising enterprise applications from inception to rollout· The accompanying CD contains:· CD content copyright page· Readme file, listing the content of the CD· LoMS Application Deployment Guide for the case study · LoMS Application containing JAVA-based codebase · A PowerPoint presentation, the ready reference of the key concepts, discussed in the book. About The Book: This book attempts to take the readers through the various processes, life cycle stages, patterns, frameworks, tools and technologies required to raise successful enterprise applications, catering to the business needs of today s enterprises. Based on the authors experience, learning and hard-won wisdom, the book highlights the raising of enterprise applications while conforming to proven software engineering practices. It provides an essential guidance to navigate from inception to rollout of a typical enterprise application development. Written by IT industry veterans, the book can be used by those who are interested in understanding the complex journey of developing enterprise applications. The book helps programmers, testers, architects, business analysts and project managers get an overall understanding of the enterprise application development. It also helps academia visualize the enterprise application development in practice.

Service-oriented Architecture for Enterprise Applications Jun 10

2021 Market_Desc: · Students, Software Engineers, Designers, Architects, Business Analysts and Consultants· Project/Program Managers and IT Consultants, CXOs Special Features: · First book that focuses on architecture, design and development of Enterprise applications based on Service Oriented Architecture· Caters to the needs of students who need to understand the concepts of SOA, architects, designers and developers who build SOA based enterprise applications and CXOs and Project managers who make decisions on undertaking SOA projects· Includes detailed description (and code) to enable architects, designers and developers to build SOA applications on Java and .NET platforms· SOA is one of key areas on which IT services; product and end-user companies will be building substantial capability atleast until 2011. This book enables project teams in these companies to use it as a text book for their training programs on SOA About The Book: Service-Oriented Architecture is a book that emphasizes on architecture, design and development of enterprise applications based on SOA. The book provides detailed information on many dimensions of SOA-reuse, agility and integration-that can be put to immediate use for creating transformational impact. It also offers a comprehensive and structured set of techniques for custom-built service-oriented enterprise applications that can be readily applied by system integration companies and end-user organizations to address customer needs. The book equips you with both concepts and technology detail in addressing the IT challenges faced by organizations on their business transformation journey with SOA. This is the most sought after book by students who need to have an understanding of the concepts of SOA; architects, designers and developers who build SOA based enterprise applications and CXOs and Project managers who make decisions on undertaking SOA projects.

Microsoft Azure Nov 15 2021 Straight talking advice on how to design and build enterprise applications for the cloud using Microsoft Azure with this book and eBook.

Java Message Service Sep 01 2020 This book is a thorough introduction to Java Message Service (JMS), the standard Java application program interface (API) from Sun Microsystems that supports the formal communication known as "messaging" between computers in a network. JMS provides a common interface to standard messaging protocols and to special messaging services in support of Java programs. The messages exchange crucial data between computers, rather than between users--information such as event notification and service requests. Messaging is often used to coordinate programs in dissimilar systems or written in different programming languages.Using the JMS interface, a programmer can invoke the messaging services of IBM's MQSeries, Progress Software's SonicMQ, and other popular messaging product vendors. In addition, JMS

supports messages that contain serialized Java objects and messages that contain Extensible Markup Language (XML) pages. Messaging is a powerful new paradigm that makes it easier to uncouple different parts of an enterprise application. Messaging clients work by sending messages to a message server, which is responsible for delivering the messages to their destination. Message delivery is asynchronous, meaning that the client can continue working without waiting for the message to be delivered. The contents of the message can be anything from a simple text string to a serialized Java object or an XML document. Java Message Service shows how to build applications using the point-to-point and publish-and-subscribe models; how to use features like transactions and durable subscriptions to make an application reliable; and how to use messaging within Enterprise JavaBeans. It also introduces a new EJB type, the MessageDrivenBean, that is part of EJB 2.0, and discusses integration of messaging into J2EE.

Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks Dec 24 2019 "This book provides methods that allow for access to corporate and customer data independent of where it resides"--Provided by publisher.

Practical Enterprise Application Development Jan 05 2021 A hands-on practical guide disclosing all areas of Enterprise development , covering details about Jakarta EE with lots of examples to be run on either the newest WildFly application server or on Thorntail environment. The first part of the book covers everything from the foundation components (EJB, Servlets, CDI, JPA) to the new technology stack defined in Jakarta EE 8, including the new Batch API, JSON-P Api, the Concurrency API, Web Sockets, the JMS 2.0 API, the core Web services stack (JAX-WS, JAX-RS). The testing area with Arquillian framework and the Security API is also fully covered in this part. The second part of the book discusses how to integrate the Jakarta Enterprise API with the Microprofile specification, to provide essential services to develop robust microservices such as the Configuration API, the Health API, the Fault tolerance API, the OpenAPI and Tracing API, the Metrics API, JWT Authentication API and REST Client API. Finally, the third part of the book covers how to build Microservices using Thorntail fractions for both Enterprise API and Microprofile API What you will learn from this book: Everything you need to know about Java EE, Jakarta EE 8 and MicroProfile API How to set up your development environment to build Enterprise applications and Microservices on the top of WildFly or using Thorntail. How to use Maven plugin to simplify your project scaffolding Learning the foundation components that constitute the backbone of your applications: EJB, CDI 2.0, JPA, JAX-RS, JAX-WS Learn how to build loosely coupled applications using the straightforward JMS 2.0 API Learn how to test your applications with

Arquillian in a managed environment, remote environment and even on the cloud! Discover how to develop Concurrent and Compliant Java EE applications using the Concurrency API and how to define Batch Jobs using WildFly's implementation of JSR Secure all kind of applications (Web/EJB) with standard and custom login modules. How to encrypt the communication of EJB applications and Web applications. How to enhance your Jakarta EE stack with Microprofile API to build robust Microservices How to turn Jakarta EE applications into Thorntail Microservices

Amazon Web Services Nov 22 2019 Evaluate your Cloud requirements and successfully migrate your .NET Enterprise Application to the Amazon Web Services Platform.

Building Spring 2 Enterprise Applications Jul 31 2020 This is a brilliantly practical work that lets the reader experience a real-world scalable agile enterprise Java-based application being built from the ground up using the latest Spring 2.x kit available. The open source agile lightweight Spring (meta) Framework 2.x is by far the leading innovative force and "lightning rod" that's driving today's Java industry. Spring has time and time again proven itself in real-world highly scalable enterprise settings such as banks and other financial institutions. This book is the only authoritative Spring 2 authored book, as it has been written by team members of Interface21, the group that lead the Spring Foundation and its growing community.

Solving Enterprise Applications Performance Puzzles Sep 13 2021 Poorly performing enterprise applications are the weakest links in a corporation's management chain, causing delays and disruptions of critical business functions. This groundbreaking book frames enterprise application performance engineering not as an art but as applied science built on model-based methodological foundation. The book introduces queuing models of enterprise application that visualize, demystify, explain, and solve system performance issues. Analysis of these models will help to discover and clarify unapparent connections and correlations among workloads, hardware architecture, and software parameters.

Hands-On Enterprise Application Development with Python Sep 20 2019 Architect scalable, reliable, and maintainable applications for enterprises with Python Key Features Explore various Python design patterns used for enterprise software development Apply best practices for testing and performance optimization to build stable applications Learn about different attacking strategies used on enterprise applications and how to avoid them Book Description Dynamically typed languages like Python are continuously improving. With the addition of exciting new features and a wide selection of modern libraries and frameworks, Python has emerged as an ideal language for developing enterprise applications. Hands-On Enterprise

Application Development with Python will show you how to build effective applications that are stable, secure, and easily scalable. The book is a detailed guide to building an end-to-end enterprise-grade application in Python. You will learn how to effectively implement Python features and design patterns that will positively impact your application lifecycle. The book also covers advanced concurrency techniques that will help you build a RESTful application with an optimized frontend. Given that security and stability are the foundation for an enterprise application, you'll be trained on effective testing, performance analysis, and security practices, and understand how to embed them in your codebase during the initial phase. You'll also be guided in how to move on from a monolithic architecture to one that is service oriented, leveraging microservices and serverless deployment techniques. By the end of the book, you will have become proficient at building efficient enterprise applications in Python. What you will learn

- Understand the purpose of design patterns and their impact on application lifecycle
- Build applications that can handle large amounts of data-intensive operations
- Uncover advanced concurrency techniques and discover how to handle a large number of requests in production
- Optimize frontends to improve the client-side experience of your application
- Effective testing and performance profiling techniques to detect issues in applications early in the development cycle
- Build applications with a focus on security
- Implement large applications as microservices to improve scalability

Who this book is for If you're a developer who wants to build enterprise-grade applications, this book is for you. Basic to intermediate-level of programming experience with Python and database systems is required to understand the concepts covered in this book.

Enterprise Software Architecture and Design Feb 06 2021 This book fills a gap between high-level overview texts that are often too general and low-level detail oriented technical handbooks that lose sight the "big picture". This book discusses SOA from the low-level perspective of middleware, various XML-based technologies, and basic service design. It also examines broader implications of SOA, particularly where it intersects with business process management and process modeling. Concrete overviews will be provided of the methodologies in those fields, so that students will have a hands-on grasp of how they may be used in the context of SOA.

Applying Domain-Driven Design and Patterns Aug 12 2021 Patterns, Domain-Driven Design (DDD), and Test-Driven Development (TDD) enable architects and developers to create systems that are powerful, robust, and maintainable. Now, there's a comprehensive, practical guide to leveraging all these techniques primarily in Microsoft .NET environments, but the discussions are just as useful for Java developers. Drawing on seminal work by Martin Fowler (Patterns of

Enterprise Application Architecture) and Eric Evans (Domain-Driven Design), Jimmy Nilsson shows how to create real-world architectures for any .NET application. Nilsson illuminates each principle with clear, well-annotated code examples based on C# 1.1 and 2.0. His examples and discussions will be valuable both to C# developers and those working with other .NET languages and any databases—even with other platforms, such as J2EE. Coverage includes

- Quick primers on patterns, TDD, and refactoring
- Using architectural techniques to improve software quality
- Using domain models to support business rules and validation
- Applying enterprise patterns to provide persistence support via NHibernate
- Planning effectively for the presentation layer and UI testing
- Designing for Dependency Injection, Aspect Orientation, and other new paradigms

Hands-On Enterprise Application Development with Python Jan 17 2022

Architect scalable, reliable, and maintainable applications for enterprises with Python Key FeaturesExplore various Python design patterns used for enterprise software developmentApply best practices for testing and performance optimization to build stable applicationsLearn about different attacking strategies used on enterprise applications and how to avoid themBook Description Dynamically typed languages like Python are continuously improving. With the addition of exciting new features and a wide selection of modern libraries and frameworks, Python has emerged as an ideal language for developing enterprise applications. Hands-On Enterprise Application Development with Python will show you how to build effective applications that are stable, secure, and easily scalable. The book is a detailed guide to building an end-to-end enterprise-grade application in Python. You will learn how to effectively implement Python features and design patterns that will positively impact your application lifecycle. The book also covers advanced concurrency techniques that will help you build a RESTful application with an optimized frontend. Given that security and stability are the foundation for an enterprise application, you'll be trained on effective testing, performance analysis, and security practices, and understand how to embed them in your codebase during the initial phase. You'll also be guided in how to move on from a monolithic architecture to one that is service oriented, leveraging microservices and serverless deployment techniques. By the end of the book, you will have become proficient at building efficient enterprise applications in Python. What you will learnUnderstand the purpose of design patterns and their impact on application lifecycleBuild applications that can handle large amounts of data-intensive operationsUncover advanced concurrency techniques and discover how to handle a large number of requests in productionOptimize frontends to improve the client-side experience of your applicationEffective testing and performance profiling

techniques to detect issues in applications early in the development cycle
Build applications with a focus on security
Implement large applications as microservices to improve scalability
Who this book is for
If you're a developer who wants to build enterprise-grade applications, this book is for you. Basic to intermediate-level of programming experience with Python and database systems is required to understand the concepts covered in this book.

Lean Enterprise Software and Systems Jun 17 2019 This book contains the refereed proceedings of the 4th International Conference on Lean Enterprise Software and Systems, LESS 2013, held in Galway, Ireland, in December 2013. LESS fosters interactions between practitioners and researchers by joining the lean product development and the agile software development communities in a highly collaborative environment. Each year, the program combines novelties and recent research results that make new ideas thrive during and after the conference. This year, the conference agenda was expanded to incorporate topics such as portfolio management, open innovation and enterprise transformation. The 14 papers selected for this book represent a diverse range of experiences, studies and theoretical achievements. They are organized in four sections on lean software development, quality and performance, case studies and emerging developments.

Developing .NET Enterprise Applications Dec 04 2020 The author Kanalakis gives in-depth and detailed guidance on how to build a single, scalable enterprise application with C# and using .NET technologies.

Android Programming Oct 22 2019 *Android Programming: The Big Nerd Ranch Guide* is an introductory Android book for programmers with Java experience. Based on Big Nerd Ranch's popular Android Bootcamp course, this guide will lead you through the wilderness using hands-on example apps combined with clear explanations of key concepts and APIs. This book focuses on practical techniques for developing apps compatible with Android 4.1 (Jelly Bean) and up, including coverage of Lollipop and material design. Write and run code every step of the way, creating apps that integrate with other Android apps, download and display pictures from the web, play sounds, and more. Each chapter and app has been designed and tested to provide the knowledge and experience you need to get started in Android development. Big Nerd Ranch specializes in developing and designing innovative applications for clients around the world. Our experts teach others through our books, bootcamps, and onsite training. Whether it's Android, iOS, Ruby and Ruby on Rails, Cocoa, Mac OS X, JavaScript, HTML5 or UX/UI, we've got you covered. The Android team is constantly improving and updating Android Studio and other tools. As a result, some of the instructions we provide in the book are no longer correct. You can find an addendum addressing breaking changes at: <http://www.bignerdranch.com/android-programming>

ps://github.com/bignerdranch/AndroidCourseResources/raw/master/2ndEdition/Errata/2eAddendum.pdf.

Fowler Oct 26 2022 The practice of enterprise application development has benefited from the emergence of many new enabling technologies. Multi-tiered object-oriented platforms, such as Java and .NET, have become commonplace. These new tools and technologies are capable of building powerful applications, but they are not easily implemented. Common failures in enterprise applications often occur because their developers do not understand the architectural lessons that experienced object developers have learned. Patterns of Enterprise Application Architecture is written in direct response to the stiff challenges that face enterprise application developers. The author, noted object-oriented designer Martin Fowler, noticed that despite changes in technology--from Smalltalk to CORBA to Java to .NET--the same basic design ideas can be adapted and applied to solve common problems. With the help of an expert group of contributors, Martin distills over forty recurring solutions into patterns. The result is an indispensable handbook of solutions that are applicable to any enterprise application platform. This book is actually two books in one. The first section is a short tutorial on developing enterprise applications, which you can read from start to finish to understand the scope of the book's lessons. The next section, the bulk of the book, is a detailed reference to the patterns themselves. Each pattern provides usage and implementation information, as well as detailed code examples in Java or C#. The entire book is also richly illustrated with UML diagrams to further explain the concepts. Armed with this book, you will have the knowledge necessary to make important architectural decisions about building an enterprise application and the proven patterns for use when building them. The topics covered include · Dividing an enterprise application into layers · The major approaches to organizing business logic · An in-depth treatment of mapping between objects and relational databases · Using Model-View-Controller to organize a Web presentation · Handling concurrency for data that spans multiple transactions · Designing distributed object interfaces

Release It! Feb 24 2020 A single dramatic software failure can cost a company millions of dollars - but can be avoided with simple changes to design and architecture. This new edition of the best-selling industry standard shows you how to create systems that run longer, with fewer failures, and recover better when bad things happen. New coverage includes DevOps, microservices, and cloud-native architecture. Stability antipatterns have grown to include systemic problems in large-scale systems. This is a must-have pragmatic guide to engineering for production systems. If you're a software developer, and you don't want to get alerts every night for the rest of your life, help is here. With a combination of case studies about

huge losses - lost revenue, lost reputation, lost time, lost opportunity - and practical, down-to-earth advice that was all gained through painful experience, this book helps you avoid the pitfalls that cost companies millions of dollars in downtime and reputation. Eighty percent of project life-cycle cost is in production, yet few books address this topic. This updated edition deals with the production of today's systems - larger, more complex, and heavily virtualized - and includes information on chaos engineering, the discipline of applying randomness and deliberate stress to reveal systematic problems. Build systems that survive the real world, avoid downtime, implement zero-downtime upgrades and continuous delivery, and make cloud-native applications resilient. Examine ways to architect, design, and build software - particularly distributed systems - that stands up to the typhoon winds of a flash mob, a Slashdotting, or a link on Reddit. Take a hard look at software that failed the test and find ways to make sure your software survives. To skip the pain and get the experience...get this book.

Enterprise Rails May 29 2020 What does it take to develop an enterprise application with Rails? Enterprise Rails introduces several time-tested software engineering principles to prepare you for the challenge of building a high-performance, scalable website with global reach. You'll learn how to design a solid architecture that ties the many parts of an enterprise website together, including the database, your servers and clients, and other services as well. Many Rails developers think that planning for scale is unnecessary. But there's nothing worse than an application that fails because it can't handle sudden success. Throughout this book, you'll work on an example enterprise project to learn first-hand what's involved in architecting serious web applications. With this book, you will: Tour an ideal enterprise systems layout: how Rails fits in, and which elements don't rely on Rails Learn to structure a Rails 2.0 application for complex websites Discover how plugins can support reusable code and improve application clarity Build a solid data model -- a fortress -- that protects your data from corruption Base an ActiveRecord model on a database view, and build support for multiple table inheritance Explore service-oriented architecture and web services with XML-RPC and REST See how caching can be a dependable way to improve performance Building for scale requires more work up front, but you'll have a flexible website that can be extended easily when your needs change. Enterprise Rails teaches you how to architect scalable Rails applications from the ground up. "Enterprise Rails is indispensable for anyone planning to build enterprise web services. It's one thing to get your service off the ground with a framework like Rails, but quite another to construct a system that will hold up at enterprise scale. The secret is to make good architectural choices from the beginning. Chak shows you how to

make those choices. Ignore his advice at your peril."-- Hal Abelson, Prof. of Computer Science and Engineering, MIT

Management Information Systems for Enterprise Applications: Business Issues, Research and Solutions Jan 25 2020 "This book provides the conceptual and methodological foundations that reflect interdisciplinary concerns regarding research in management information systems, investigating the future of management information systems by means of analyzing a variety of MIS and service-related concepts in a wide range of disciplines"--Provided by publisher.

Enterprise Application Integration Apr 20 2022 Dealing with the concepts behind a vendor's products, this a guide for IT managers on how to ensure the IT infrastructure matches the need of the enterprise, and which procedures should be followed to ensure this happens.

Architecting High Performing, Scalable and Available Enterprise Web Applications Apr 08 2021 Architecting High Performing, Scalable and Available Enterprise Web Applications provides in-depth insights into techniques for achieving desired scalability, availability and performance quality goals for enterprise web applications. The book provides an integrated 360-degree view of achieving and maintaining these attributes through practical, proven patterns, novel models, best practices, performance strategies, and continuous improvement methodologies and case studies. The author shares his years of experience in application security, enterprise application testing, caching techniques, production operations and maintenance, and efficient project management techniques. Delivers holistic view of scalability, availability and security, caching, testing and project management Includes patterns and frameworks that are illustrated with end-to-end case studies Offers tips and troubleshooting methods for enterprise application testing, security, caching, production operations and project management Exploration of synergies between techniques and methodologies to achieve end-to-end availability, scalability, performance and security quality attributes 360-degree viewpoint approach for achieving overall quality Practitioner viewpoint on proven patterns, techniques, methodologies, models and best practices. Bulleted summary and tabular representation of concepts for effective understanding Production operations and troubleshooting tips

Enterprise Application Development with C# 9 and .NET 5 Dec 16 2021 Become a professional .NET developer by learning expert techniques for building enterprise-grade applications Key FeaturesExplore the advanced features of C# and .NET 5 to enhance your code and productivityFollow clear and easy instructions for building an end-to-end enterprise applicationLearn how to build scalable web applications and host them on the cloudBook Description .NET Core is

one of the most popular programming platforms in the world for an increasingly large community of developers thanks to its excellent cross-platform support. This book will show you how to confidently use the features of .NET 5 with C# 9 to build robust enterprise applications. Throughout the book, you'll work on creating an enterprise app and adding a key component to the app with each chapter, before finally getting it ready for testing and deployment. You'll learn concepts relating to advanced data structures, the Entity Framework Core, parallel programming, and dependency injection. As you progress, you'll cover various authentication and authorization schemes provided by .NET Core to make your apps and APIs secure. Next, you'll build web apps using ASP.NET Core 5 and deploy them on the cloud while working with various cloud components using Azure. The book then shows you how to use the latest Microsoft Visual Studio 2019 and C# 9 to simplify developer tasks, and also explores tips and tricks in Visual Studio 2019 to improve your productivity. Later, you'll discover various testing techniques such as unit testing and performance testing as well as different methods to deploy enterprise apps. By the end of this book, you'll be able to create enterprise apps using the powerful features of .NET 5 and deploy them on the cloud. What you will learn

Design enterprise apps by making the most of the latest features of .NET 5
Discover different layers of an app, such as the data layer, API layer, and web layer
Explore end-to-end architecture, implement an enterprise web app using .NET and C# 9, and deploy the app on Azure
Focus on the core concepts of web application development such as dependency injection, caching, logging, configuration, and authentication, and implement them in .NET 5
Integrate the new .NET 5 health and performance check APIs with your app
Understand how .NET 5 works and contribute to the .NET 5 platform

Who this book is for If you are a developer, architect, or senior programmer who wants to leverage the features of .NET 5 and the C# language, as well as grasp essential techniques to build your skills, then this C# .NET 5 book is for you. Beginner to intermediate-level knowledge of the .NET framework and C# programming is required to understand the concepts covered in this book more effectively.

Kotlin for Enterprise Applications using Java EE Jun 29 2020 Build Java Enterprise Applications and learn how Kotlin makes it easier to code them using components like JSF 2.3, Enterprise JavaBeans (EJB) 3.2, Contexts and Dependency Injection (CDI) 2.0, the Java API for WebSockets, JAX-RS 2.1, Servlet 4.0. Key Features

An in-depth guide updated with all the latest features of Kotlin 1.2 and Java EE 8
Build microservices in Java EE with the help of Kotlin use cases
Explore coroutines, garbage collection, multithreading, memory management and more

Book Description Kotlin was developed with a view to solving programmers' difficulties and operational challenges. This book

guides you in making Kotlin and Java EE work in unison to build enterprise-grade applications. Together, they can be used to create services of any size with just a few lines of code and let you focus on the business logic. Kotlin for Enterprise Applications using Java EE begins with a brief tour of Kotlin and helps you understand what makes it a popular and reasonable choice of programming language for application development, followed by its incorporation in the Java EE platform. We will then learn how to build applications using the Java Persistence API (JPA) and Enterprise JavaBeans (EJB), as well as develop RESTful web services and MicroServices. As we work our way through the chapters, we'll use various performance improvement and monitoring tools for your application and see how they optimize real-world applications. At each step along the way, we will see how easy it is to develop enterprise applications in Kotlin. By the end of this book, we will have learned design patterns and how to implement them using Kotlin. What you will learn

Understand Kotlin syntax and appreciate why it's gaining in popularity

Explore the Java EE ecosystem and the APIs in Java EE

Implement applications using Kotlin

Overcome the challenges of developing the Java EE system using Kotlin

Gain insights into Java Message Services (JMS)

Build RESTful MicroServices and secure applications

Optimize applications with performance and monitoring tools

Understand design patterns and implement them

Who this book is for

Kotlin for Enterprise Applications using Java EE is for Java EE developers who want to build their enterprise project or application with Kotlin or migrate from Java to Kotlin. Basic knowledge of programming is necessary to understand the key concepts covered in this book.