Soa Using Java Web Services

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Service Oriented Architecture with Java - Malhar Barai 2008
This book is an overview of how to implement SOA using Java with the help of real-world examples. It briefly introduces the theory behind SOA and all the case studies are described from scratch. This book is for Java programmers or architects who are interested in implementing SOA concepts in their applications. Readers should be familiar with Java Enterprise concepts.
Service-oriented Computing - Dimitrios Georgakopoulos 2009
Service-Oriented Computing (SOC) promises a world of co-operating services loosely connected, creating dynamic business processes and agile applications thatspan organizations and platforms. The contributors to thisvolume treat topics related to SOA and such proposedenhancements to it as Event Drive Architecture (EDA) and extended SOA (xSOA) as well as engineering aspects of SOA-based applications. In particular, the chapters discussmodelling of SOA-based applications, SOA architecture design, business process management, transactional integrity, quality of service (QoS) and service agreements, service requirements engineering, re-use, and adaptation.
Web Services - M. Papazoglou 2008
Web services represent the next generation of web-based technology. They allow new and improved ways for enterprise applications to communicate and integrate with each other and, as such, are having a profound effect on both the worlds of business and of software development.
Web Service Implementation and Composition Techniques - Hye-young Paik 2017-06-02
This book embarks on a mission to dissect, unravel and demystify the concepts of Web services, including their implementation and composition techniques. It provides a comprehensive perspective on the fundamentals of implementation standards and strategies for Web services (in the first half of the book), while also presenting composition techniques for leveraging existing services to create larger ones (in the second half). Pursuing a unique approach, it begins with a sound overview of concepts, followed by a targeted technical discussion that is in turn linked to practical exercises for hands-on learning. For each chapter, practical exercises are available on Github. Mainly intended as a comprehensive textbook on the implementation and composition of Web services, it also offers a useful reference guide for academics and practitioners. Lecturers will find this book useful for a variety of courses, from undergraduate courses on the foundational technology of Web services through graduate courses on complex Web service composition. Students and researchers entering the field will benefit from the combination of a broad technical overview with practical self-guided exercises. Lastly, professionals will gain a well-informed grasp of how to synthesize the concepts of conventional and “newer” breeds of Web services, which they can use to revise foundational concepts or for practical implementation tasks.
Service-oriented Architecture - Thomas Erl 2004
Reap the benefits of increased ROI by integrating Service-Oriented Design principles and XML Web services into your IT infrastructure.
Service-oriented Architecture for Enterprise Applications - Shankar Kambhampaty 2008
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.
SOA Approach to Integration - Matjaz B. Juric 2007
After explaining the challenges, levels, and strategies of integration the book explains SOA, web services, and the Enterprise Services Bus before covering processing XML and web services on the .Net and JEE platforms in more detail. Then it covers BEPL and demonstrates service composition into business processes with a realistic, although simple example BPEL process. Finally it shows how ESB provides a concrete infrastructure for SOA. This book is for architects and senior developers who are responsible for setting up SOA for integration for applications within the enterprise (intra-enterprise integration) and applications across enterprises (inter-enterprise integration or B2B).
Custom Edition of Designing Web Services with the J2EE™1. 4 Platform, JAX-RPC, SOAP, and XML Technologies - Beth Stearns 2004

SOA with REST - Thomas Erl 2012-08-06
The Definitive Guide to Building Web-Centric SOA with REST The World Wide Web is based on the most successful technology architecture in history. It has changed how we view, access, and exchange information and, with the advent of REST, it has also provided us with compelling ways to build and improve automation solutions. REST provides a great deal of guidance to ensure that an architecture and its automation logic are technically sound, though it is still your responsibility to build services that actually add value to your business. SOA with REST is the first comprehensive tutorial and reference for designing and building RESTful services as part of service-oriented solutions and in conjunction with service-oriented architecture (SOA). This book demonstrates that REST is not only a suitable medium for building truly service-oriented solutions, but also that the service-oriented architectural model is a necessary foundation for REST technology architectures to realize their full business potential. The authors provide thorough mapping of REST constraints and architectural goals with service-orientation principles and SOA characteristics. Using real-world examples, they show how to leverage REST’s simplicity, flexibility, and low overhead without compromising the power or manageability of service-oriented solutions and architectures. This ebook will be valuable to IT architects, developers, and any practitioner seeking to use SOA and REST together.
Rational Application Developer for WebSphere Software V8 Programming Guide - Martin Keen 2011-04-19
IBM® Rational® Application Developer for WebSphere® Software V8 is the full-function Eclipse 3.6 technology-based development platform for developing JavaTM Platform, Standard Edition Version 6 (Java SE 6) and Java Platform, Enterprise Edition Version 6 (Java EE 6) applications. Beyond this function, Rational Application Developer provides development tools for technologies, such as OSGi, Service Component Architecture (SCA), Web 2.0, and XML. It has a focus on applications to be deployed to IBM WebSphere Application Server and IBM WebSphere Portal. Rational Application Developer provides integrated development

tools for all development roles, including web developers, Java developers, business analysts, architects, and enterprise programmers. This IBM Redbooks® publication is a programming guide that highlights the features and tooling included with Rational Application Developer V8.0.1. Many of the chapters provide working examples that demonstrate how to use the tooling to develop applications and achieve the benefits of visual and rapid application development. This publication is an update of Rational Application Developer V7.5 Programming Guide, SG24-7672.
Implementing SOA Using Java EE. - Kumar 2009

SOA Using Java Web Services - Hansen 2007

Integrating SOA and Web Services - N. Sudha Bhuvaneswari 2022-09-01
This book highlights how to integrate and realize Service Oriented Architecture with web services which is one of the emerging technologies in IT. It also focuses on the latest technologies, such as Metadata Management, Security issues, Quality of Service and its commercialization.
Building SOA-based Composite Applications Using NetBeans IDE 6 - David Salter 2008
Annotation The composite application design enables your company to combine multiple heterogeneous technologies into a single application, bringing key application capability within reach of your business user. Enterprises creating richer composite applications by leveraging existing interoperable components increase the development organization's ability to respond quickly and cost-effectively to emerging business requirements. This book will focus on OpenESB and NetBeans IDE for designing and building composite applications.
SOA with Java - Thomas Erl 2014
Java has evolved into an exceptional platform for building Web-based enterprise services. This book guides you in mastering the principles, best practices, and Java technologies you need to design and deliver high-value services and service-oriented solutions. Youll learn how to implement SOA with lightweight frameworks, mainstream Java services technologies, and contemporary specifications and standards. To demonstrate real-world examples, the authors present multiple case study scenarios. They further demystify complex concepts with a plain-English writing style. This book will be valuable to all developers, analysts, architects, and other IT professionals who want to design and implement Web-based service-oriented architectures and enterprise solutions with Java technologies.
RESTful Java Web Services - Jobinesh Purushothaman 2015-09-22
Design scalable and robust RESTful web services with JAX-RS and Jersey extension APIs About This Book Get to grips with the portable Java APIs used for JSON processing Design solutions to produce, consume, and visualize RESTful web services using WADL, RAML, and Swagger A step-by-step guide packed with many real-life use-cases to help you build efficient and secure RESTful web APIs in Java Who This Book Is For If you are a web developer with a basic understanding of the REST concepts but are new to the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design principles Make use of the JSR 353 APIs and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.0 API Simplify API development using the Jersey extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail REST (REpresentational State Transfer) is a simple yet powerful software architecture style to create scalable web services and allow them to be simple, lightweight, and fast. The REST API uses HTTP and JSON, so that it can be used with many programming languages such as Ruby, Java, Python, and Scala. Its use in Java seems to be the most popular though, because of the API's reusability. This book is a guide to developing RESTful web services in Java using the popular RESTful framework APIs available today. You will begin with gaining an in-depth knowledge of the RESTful software architectural style and its relevance in modern applications. Further, you will understand the APIs to parse, generate, transform, and query JSON effectively. Then, you will see how to build a simple RESTful service using the popular JAX-RS 2.0 API along with some real-world examples. This book will introduce you to the Jersey framework API, which is used to simplify your web services. You will also see how to secure your services with various authentication mechanisms. You will get to grips with various solutions to describe, produce, consume, and visualize RESTful web services. Finally, you will see how to design your web services to equip them for the future technological advances, be it Cloud or mobile computing. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services, making use of the JAX-RS and Jersey framework extensions. Style and approach This book is written as a step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.
Implementing SOA Using Java EE - B.V. Kumar 2009-12-23
The Practitioner’s Guide to Implementing SOA with Java EE Technologies This book brings together all the practical insight you need to successfully architect enterprise solutions and implement them using SOA and Java EE technologies. Writing for senior IT developers, strategists, and enterprise architects, the authors cover everything from concepts to implementation, requirements to tools. The authors first review the Java EE platform’s essential elements in the context of SOA and web services deployment, and demonstrate how Java EE has evolved into the world’s best open source solution for enterprise SOA. After discussing standards such as SOAP, WSDL, and UDDI, they walk through implementing each key aspect of SOA with Java EE. Step by step, you’ll learn how to integrate service-oriented web and business components of Java EE technologies with the help of process-oriented standards such as BPEL/CDL into a coherent, tiered enterprise architecture that can deliver a full spectrum of business services. Implementing SOA Using Java™ EE concludes with a section-length case study that walks through analyzing a company’s requirements, creating an effective SOA architecture, and building a concise proof-of-concept prototype with NetBeans IDE. Coverage includes Using Java EE technologies to simplify SOA implementation Mastering messaging, service descriptions, registries, orchestration, choreography, and other essential SOA concepts Building an advanced web services infrastructure for implementing SOA Using Java Persistence API to provide for persistence Getting started with Java Business Integration (JBI), the new open specification for delivering SOA Implementing SOA at the web and business tiers Developing, configuring, and deploying SOA systems with NetBeans IDE Constructing SOA systems with NetBeans SOA Pack
RESTful Java Web Services - Third Edition - Bogunuva Mohanram Balachandar 2017-11-17
Master core REST concepts and create RESTful web services in JavaAbout This Book* Build efficient and secure RESTful web APIs in Java..* Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger* Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media.Who This Book Is ForIf you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must.What You Will Learn* Introduce yourself to the RESTful software architectural style and the REST API design principles* Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing* Build portable RESTful web APIs, making use of the JAX-RS 2.1 API* Simplify API development using the Jersey and RESTEasy extension APIs* Secure your RESTful web services with various authentication and authorization mechanisms* Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services* Understand the design and coding guidelines to build well-performing RESTful APIs* See how the role of RESTful web services changes with emerging technologies and trendsIn DetailRepresentational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely used), CSV, and many more, which makes it easily inter-operable across different languages and platforms.This successful book is currently in its 3rd edition and has been used by thousands of developers. It serves as an excellent guide for developing RESTful web services in Java.This book attempts to familiarize the reader with the concepts of REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning to secure REST APIs using OAuth and JWT. Finally, you will learn the role of RESTful web services for future technological advances, be it cloud, IoT or social media.By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs.Style and approachStep-by-step

guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Java Web Services - David A. Chappell 2002

This volume offers the experienced Java developer a way into the Web services world. It explains the range of technologies in use and how they relate to Java and shows Java developers how to put them to use to solve real problems.

Understanding SOA with Web Services - Eric Newcomer 2005

Where most SOA books focus on integration and architecture basics, Lomow and Newcomer fearlessly dive into these more advanced, yet critical, topics, and provide a depth of treatment unavailable anywhere else."--Jason Bloomberg, Senior Analyst, ZapThink LLC"This book provides a wealth of content on Web Services and SOA not found elsewhere. Although the book is technical in nature, it is surprisingly easy to read and digest. Managers who would like to keep up with the most effective technical strategies will find this book required reading."--Hari Mailvaganam, University of British Columbia, Vancouver"I have been teaching companies and lecturing on SOA and XML Web Services for years and sort of felt at home with these technologies. I didn t think anyone else could teach me anything more significant about either of them. This book surprised me. If a person teaching SOA and Web Services can learn something from this book, you can too. This book is a must-read for all architects, senior developers, and concerned CTOs."--Sayed Y.

Java Web Services Architecture - James McGovern 2003-05-27

Written by industry thought leaders, Java Web Services Architecture is a no-nonsense guide to web services technologies including SOAP, WSDL, UDDI and the JAX APIs. This book is useful for systems architects and provides many of the practical considerations for implementing web services including authorization, encryption, transactions and the future of Web Services. Covers all the standards, the JAX APIs, transactions, security, and more.

Web Services and Service-oriented Architectures - Douglas K. Barry 2003

Interesting, timely, and above all, useful, Savvy Guides give IT managers the information they need to effectively manage their technologists, as well as conscientiously inform business decision makers, in the midst of technological revolution.

The Service-Oriented Media Enterprise - John Footen 2012-07-26

Companies worldwide are rapidly adopting Service-Oriented Architecture (SOA), a design methodology used to connect systems as services, and Business Process Management (BPM), the art of orchestrating these services. Media organizations from news organizations to music and media download services to movie studios are adapting to SOA-style architectures, but have run into roadblocks unique to the media and entertainment industry. These challenges include incorporating real-time data, moving large amounts of data at one time, non-linearity and flexibility for workflow, and unique metrics and data gathering. The Service-Oriented Media Enterprise details the challenges and presents solutions for media technology professionals. By addressing both the IT and media aspects, it helps individuals improve current enterprise technologies and operations.

RESTful Java with JAX-RS 2.0 - Bill Burke 2013-11-12

Learn how to design and develop distributed web services in Java, using RESTful architectural principles and the JAX-RS 2.0 specification in Java EE 7. By focusing on implementation rather than theory, this hands-on reference demonstrates how easy it is to get started with services based on the REST architecture. With the book’s technical guide, you’ll learn how REST and JAX-RS work and when to use them. The RESTEasy workbook that follows provides step-by-step instructions for installing, configuring, and running several working JAX-RS examples, using the JBoss RESTEasy implementation of JAX-RS 2.0. Learn JAX-RS 2.0 features, including a client API, server-side asynchronous HTTP, and filters and interceptors Examine the design of a distributed RESTful interface for an e-commerce order entry system Use the JAX-RS Response object to return complex responses to your client (ResponseBuilder) Increase the performance of your services by leveraging HTTP caching protocols Deploy and integrate web services within Java EE7, servlet containers, EJB, Spring, and JPA Learn popular mechanisms to perform authentication on the Web, including client-side SSL and OAuth 2.0

RESTful Web Services - Leonard Richardson 2008-12-17

"Every developer working with the Web needs to read this book." -- David Heinemeier Hansson, creator of the Rails framework "RESTful Web Services finally provides a practical roadmap for constructing services that embrace the Web, instead of trying to route around it." -- Adam Trachtenberg, PHP author and EBay Web Services Evangelist You've built web sites that can be used by humans. But can you also build web sites that are usable by machines? That's where the future lies, and that's what RESTful Web Services shows you how to do. The World Wide Web is the most popular distributed application in history, and Web services and mashups have turned it into a powerful distributed computing platform. But today's web service technologies have lost sight of the simplicity that made the Web successful. They don't work like the Web, and they're missing out on its advantages. This book puts the "Web" back into web services. It shows how you can connect to the programmable web with the technologies you already use every day. The key is REST, the architectural style that drives the Web. This book: Emphasizes the power of basic Web technologies -- the HTTP application protocol, the URI naming standard, and the XML markup language Introduces the Resource-Oriented Architecture (ROA), a common-sense set of rules for designing RESTful web services Shows how a RESTful design is simpler, more versatile, and more scalable than a design based on Remote Procedure Calls (RPC) Includes real-world examples of RESTful web services, like Amazon's Simple Storage Service and the Atom Publishing Protocol Discusses web service clients for popular programming languages Shows how to implement RESTful services in three popular frameworks -- Ruby on Rails, Restlet (for Java), and Django (for Python) Focuses on practical issues: how to design and implement RESTful web services and clients This is the first book that applies the REST design philosophy to real web services. It sets down the best practices you need to make your design a success, and the techniques you need to turn your design into working code. You can harness the power of the Web for programmable applications: you just have to work with the Web instead of against it. This book shows you how.

Understanding Web Services - Eric Newcomer 2002

This book introduces the main ideas and concepts behind core and extended Web services' technologies and provides developers with a primer for each of the major technologies that have emerged in this space.

Web Services Essentials - Ethan Cerami 2002-02-14

As a developer new to Web Services, how do you make sense of this emerging framework so you can start writing your own services today? This concise book gives programmers both a concrete introduction and a handy reference to XML web services, first by explaining the foundations of this new breed of distributed services, and then by demonstrating quick ways to create services with open-source Java tools.Web Services make it possible for diverse applications to discover each other and exchange data seamlessly via the Internet. For instance, programs written in Java and running on Solaris can find and call code written in C# that run on Windows XP, or programs written in Perl that run on Linux, without any concern about the details of how that service is implemented. A common set of Web Services is at the core of Microsoft's new .NET strategy, Sun Microsystems's Sun One Platform, and the W3C's XML Protocol Activity Group.In this book, author Ethan Cerami explores four key emerging technologies: XML Remote Procedure Calls (XML-RPC) SOAP - The foundation for most commercial Web Services development Universal Discovery, Description and Integration (UDDI) Web Services Description Language (WSDL) For each of these topics, Web Services Essentials provides a quick overview, Java tutorials with sample code, samples of the XML documents underlying the service, and explanations of freely-available Java APIs. Cerami also includes a guide to the current state of Web Services, pointers to open-source tools and a comprehensive glossary of terms.If you want to break through the Web Services hype and find useful information on these evolving technologies, look no further than Web Services Essentials.

WS-BPEL 2.0 for SOA Composite Applications with Oracle SOA Suite 11g - Matjaz B. Juric 2010-09-06

Define, model, implement, and monitor real-world BPEL business processes with SOA powered BPM for Oracle SOA Suite with this book and eBook.

Java SOA Cookbook - Eben Hewitt 2009-03-17

Java SOA Cookbook offers practical solutions and advice to programmers charged with implementing a service-oriented architecture (SOA) in their organization. Instead of providing another conceptual, high-level view of SOA, this cookbook shows you how to make SOA work. It's full of Java and XML code you can insert directly into your applications and recipes you can apply right away. The book focuses primarily on the use of free and open source Java Web Services technologies -- including Java SE 6 and Java EE 5 tools -- but you'll find tips for using commercially available tools as well. Java SOA Cookbook will help you: Construct XML vocabularies and

data models appropriate to SOA applications Build real-world web services using the latest Java standards, including JAX-WS 2.1 and JAX-RS 1.0 for RESTful web services Integrate applications from popular service providers using SOAP, POX, and Atom Create service orchestrations with complete coverage of the WS-BPEL (Business Process Execution Language) 2.0 standard Improve the reliability of SOAP-based services with specifications such as WS-Reliable Messaging Deal with governance, interoperability, and quality-of-service issues The recipes in Java SOA Cookbook will equip you with the knowledge you need to approach SOA as an integration challenge, not an obstacle.

Developing Java Web Services - Ramesh Nagappan 2003-02-17

One of the first books to cover Sun Microsystem's new Java Web Services Developer Pack Written by top Sun consultants with hands-on experience in creating Web services, with a foreword from Simon Phipps, Chief Evangelist at Sun Case studies demonstrate how to create Web services with the tools most used by Java developers, including BEA WebLogic, Apache Axis, Systinet WASP, and Verisign

Business Process Execution Language for Web Services - Matjaz B. Juric 2006-01-09

This book is aimed at architects and developers in the design, implementation, and integration phases of advanced information systems and e-business solutions, developing business processes and dealing with the issues of composition, orchestration, transactions, coordination, and security. The book presumes knowledge of XML and web services, web services development (either on J2EE or .NET), and multi-tier architecture.

Java Web Services: Up and Running - Martin Kalin 2009-02-12

This example-driven book offers a thorough introduction to Java's APIs for XML Web Services (JAX-WS) and RESTful Web Services (JAX-RS). Java Web Services: Up and Running takes a clear, pragmatic approach to these technologies by providing a mix of architectural overview, complete working code examples, and short yet precise instructions for compiling, deploying, and executing an application. You'll learn how to write web services from scratch and integrate existing services into your Java applications. With Java Web Services: Up and Running, you will: Understand the distinction between SOAP-based and REST-style services Write, deploy, and consume SOAP-based services in core Java Understand the Web Service Definition Language (WSDL) service contract Recognize the structure of a SOAP message Learn how to deliver Java-based RESTful web services and consume commercial RESTful services Know security requirements for SOAP- and REST-based web services Learn how to implement JAX-WS in various application servers Ideal for students as well as experienced programmers, Java Web Services: Up and Running is the concise guide you need to start working with these technologies right away.

RESTful Java Web Services - Bogunuva Mohanram Balachandar 2017-11-17

Master core REST concepts and create RESTful web services in Java About This Book Build efficient and secure RESTful web APIs in Java.. Design solutions to produce, consume and visualize RESTful web services using WADL, RAML, and Swagger Familiarize the role of RESTful APIs usage in emerging technology trends like Cloud, IoT, Social Media. Who This Book Is For If you are a web developer with a basic understanding of the REST concepts and envisage to get acquainted with the idea of designing and developing RESTful web services, this is the book for you. As all the code samples for the book are written in Java, proficiency in Java is a must. What You Will Learn Introduce yourself to the RESTful software architectural style and the REST API design principles Make use of the JSR 353 API, JSR 374 API, JSR 367 API and Jackson API for JSON processing Build portable RESTful web APIs, making use of the JAX-RS 2.1 API Simplify API development using the Jersey and RESTEasy extension APIs Secure your RESTful web services with various authentication and authorization mechanisms Get to grips with the various metadata solutions to describe, produce, and consume RESTful web services Understand the design and coding guidelines to build well-performing RESTful APIs See how the role of RESTful web services changes with emerging technologies and trends In Detail Representational State Transfer (REST) is a simple yet powerful software architecture style to create lightweight and scalable web services. The RESTful web services use HTTP as the transport protocol and can use any message formats, including XML, JSON(widely used), CSV, and many more, which makes it easily inter-operable across different languages and platforms. This successful book is currently in its 3rd edition and has been used by thousands of developers. It serves as an excellent guide for developing RESTful web services in Java. This book attempts to familiarize the reader with the concepts of REST. It is a pragmatic guide for designing and developing web services using Java APIs for real-life use cases following best practices and for learning to secure REST APIs using OAuth and JWT. Finally, you will learn the role of RESTful web services for future technological advances, be it cloud, IoT or social media. By the end of this book, you will be able to efficiently build robust, scalable, and secure RESTful web services using Java APIs. Style and approach Step-by-step guide to designing and developing robust RESTful web services. Each topic is explained in a simple and easy-to-understand manner with lots of real-life use-cases and their solutions.

Application Development for IBM CICS Web Services - O'Grady James 2015-01-27

This IBM® Redbooks® publication focuses on developing Web service applications in IBM CICS®. It takes the broad view of developing and modernizing CICS applications for XML, Web services, SOAP, and SOA support, and lays out a reference architecture for developing these kinds of applications. We start by discussing Web services in general, then review how CICS implements Web services. We offer an overview of different development approaches: bottom-up, top-down, and meet-in-the-middle. We then look at how you would go about exposing a CICS application as a Web service provider, again looking at the different approaches. The book then steps through the process of creating a CICS Web service requester. We follow this by looking at CICS application aggregation (including 3270 applications) with IBM Rational® Application Developer for IBM System z® and how to implement CICS Web Services using CICS Cloud technology. The first part is concluded with hints and tips to help you when implementing this technology. Part two of this publication provides performance figures for a basic Web service. We investigate some common variables and examine their effects on the performance of CICS as both a requester and provider of Web services.

Oracle Database Programming using Java and Web Services - Kuassi Mensah 2011-04-08

The traditional division of labor between the database (which only stores and manages SQL and XML data for fast, easy data search and retrieval) and the application server (which runs application or business logic, and presentation logic) is obsolete. Although the books primary focus is on programming the Oracle Database, the concepts and techniques provided apply to most RDBMS that support Java including Oracle, DB2, Sybase, MySQL, and PostgreSQL. This is the first book to cover new Java, JDBC, SQLJ, JPublisher and Web Services features in Oracle Database 10g Release 2 (the coverage starts with Oracle 9i Release 2). This book is a must-read for database developers audience (DBAs, database applications developers, data architects), Java developers (JDBC, SQLJ, J2EE, and OR Mapping frameworks), and to the emerging Web Services assemblers. Describes pragmatic solutions, advanced database applications, as well as provision of a wealth of code samples. Addresses programming models which run within the database as well as programming models which run in middle-tier or client-tier against the database. Discusses languages for stored procedures: when to use proprietary languages such as PL/SQL and when to use standard languages such as Java; also running non-Java scripting languages in the database. Describes the Java runtime in the Oracle database 10g (i.e., OracleJVM), its architecture, memory management, security management, threading, Java execution, the Native Compiler (i.e., NCOMP), how to make Java known to SQL and PL/SQL, data types mapping, how to call-out to external Web components, EJB components, ERP frameworks, and external databases. Describes JDBC programming and the new Oracle JDBC 10g features, its advanced connection services (pooling, failover, load-balancing, and the fast database event notification mechanism) for clustered databases (RAC) in Grid environments. Describes SQLJ programming and the latest Oracle SQLJ 10g features , contrasting it with JDBC. Describes the latest Database Web services features, Web services concepts and Services Oriented Architecture (SOA) for DBA, the database as Web services provider and the database as Web services consumer. Abridged coverage of JPublisher 10g, a versatile complement to JDBC, SQLJ and Database Web Services.

Mobile Web Services - Frederick Hirsch 2007-01-11

Mobile Web services offer new possibilities and extraordinary rewards for the mobile telecommunications market. Service-oriented architectures (SOAs) implemented with Web services are fundamentally changing business processes supported by distributed computing. These technologies bring forward the promise of services available at any time, in any place, and on any platform. Through mobile Web services, operators can offer new value-added services for their users, explore new business opportunities and increase revenue and customer retention.This expands the commercial opportunities for developers to promote their applications and enables solutions that work seamlessly across computer

and mobile environments. Mobile Web Services is a comprehensive, up-to-date and practical guide to adapting mobile Web services-based applications. The expert author team from Nokia explain in depth the software architecture and application development interfaces needed to develop solutions for these technologies. Mobile Web Services: Architecture and Implementation: Provides a complete and authoritative text on implementing mobile Web services. Describes the mobile Service-Oriented Architecture (SOA) concept. Covers the discovery, description and security of Web services. Explains how to use Simple Object Access Protocol (SOAP) in Web service messaging. Discusses the challenges and possibilities of mobile Web services, and gives case studies to illustrate the application of the technology. Presents the Nokia Mobile Web Services platform. Offers material on developing mobile Web service clients using C++ and Java. This text is essential reading for wireless Web architects, mobile application developers and programmers, software developers, technical officers and consultants, as well as advanced students in Computer Science and Electrical Engineering.

Java Server Programming Java Ee5 Black Book, Platinum Ed (With Cd) - Kogent Solutions Inc. 2008-07

Many bookstores offer numerous choices of books on Java Server Programming; however, most of these books are intricate and complex to grasp. So, what are your chances of picking up the right one? If this question has been troubling you, be rest assured now! This book, Java Server Programming: Java EE 5 (J2EE 1.5) Black Book, Platinum Edition, is a one-time reference book that covers all aspects of Java EE in an easy-to-understand approach for example, how an application server runs; how GlassFish Application server deploys a Java application; a complete know-how of design patterns, best practices, and design strategies; working with Java related technologies such as NetBeans IDE 6.0, Hibernate, Spring, and Seam frameworks; and proven solutions using the key Java EE technologies, such as JDBC, Servlets, JSP, JSTL, RMI, JNDI, JavaMail, Web services, JCA, Struts, JSF, UML, and much more& All this, as the book explores these concepts with appropriate examples and executable applications no doubt, every aspect of the book is worth its price.

SOA Using Java Web Services - Mark D. Hansen 2007-05-09

Expert Solutions and State-of-the-Art Code Examples SOA Using Java™ Web Services is a hands-on guide to implementing Web services and Service Oriented Architecture (SOA) with today’s Java EE 5 and Java SE 6 platforms. Author Mark Hansen presents in explicit detail the information that enterprise developers and architects need to succeed, from best-practice design techniques to state-of-the-art code samples. Hansen covers creating, deploying, and invoking Web services that can be composed into loosely coupled SOA applications. He begins by reviewing the “big picture,” including the challenges of Java-based SOA development and the limitations of traditional approaches. Next, he systematically introduces the latest Java Web Services (JWS) APIs and walks through creating Web services that integrate into a comprehensive SOA solution. Finally, he shows how application frameworks based on JWS can streamline the entire SOA development process and introduces one such framework: SOA-J. The book Introduces practical techniques for managing the complexity of Web services and SOA, including best-practice design examples Offers hard-won insights into building effective SOA applications with Java Web Services Illuminates recent major JWS improvements–including two full chapters on JAX-WS 2.0 Thoroughly explains SOA integration using WSDL, SOAP, Java/XML mapping, and JAXB 2.0 data binding Walks step by step through packaging and deploying Web services components on Java EE 5 with JSR-181 (WS-Metadata 2.0) and JSR-109 Includes specific code solutions for many development issues, from publishing REST endpoints to consuming SOAP services with WSDL Presents a complete case study using the JWS APIs, together with an Ajax front end, to build a SOA application integrating Amazon, Yahoo Shopping, and eBay Contains hundreds of code samples–all tested with the GlassFish Java EE 5 reference implementation–that are downloadable from the companion Web site, http://soabook.com. Foreword Preface Acknowledgments About the Author Chapter 1: Service-Oriented Architecture with Java Web Services Chapter 2: An Overview of Java Web Services Chapter 3: Basic SOA Using REST Chapter 4: The Role of WSDL, SOAP, and Java/XML Mapping in SOA Chapter 5: The JAXB 2.0 Data Binding Chapter 6: JAX-WS–Client-Side Development Chapter 7: JAX-WS 2.0–Server-Side Development Chapter 8: Packaging and Deployment of SOA Components (JSR-181 and JSR-109) Chapter 9: SOAShopper: Integrating eBay, Amazon, and Yahoo! Shopping Chapter 10: Ajax and Java Web Services Chapter 11: WSDL-Centric Java Web Services with SOA-J Appendix A: Java, XML, and Web Services Standards Used in This Book Appendix B: Software Configuration Guide Appendix C: Namespace Prefixes Glossary References Index

Soa Using Java" Web Services - Hansen 2007-09-01

The Definitive Guide to SOA - David Schorow 2008-10-21

The Definitive Guide to SOA: Oracle® Service Bus, Second Edition targets professional software developers and architects who know enterprise development but are new to enterprise service buses (ESBs) and service–oriented architecture (SOA) development. This is the first book to cover a practical approach to SOA using the BEA AquaLogic Service Bus tool. And it's written from the “source”—BEA Systems AquaLogic product lead Jeff Davies. This book provides hands–on information to developing SOA–driven applications with ESBs as central components. It also gives strategic guidance on SOA planning, web service life–cycle management, administration of an ESB, and security considerations. Author Jeff Davies is careful to cut through theory and get straight to demonstrating successful use of the product.