

Applying Service Oriented Architecture on Enterprise Resource Planning Environment

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Abstract

Due to the heterogeneity of the existing platforms, IT Environments became very extremely complex, consequently the communication between the organizations more difficult. The service oriented architecture (SOA) claims that the interactions between different parties will be easier.

1. Service Oriented Architecture (SOA) and Enterprise Resource Planning (ERP)

1.1 SOA Introduction

The IT environments became very complicated and complex, each system has its hardware and software platforms with their own specific characteristics. Consequently, there is a problem that exists on the horizontal level when a system tries to talk or communicate with different system(s), furthermore there are different of problems that exist on the vertical level when the system is upgraded to other platforms and needs to use some functionality from legacy systems. SOA claims that it is able to deal with these kinds of heterogeneity; it provides approaches to deal with heterogeneity because it takes consideration the integration and independency rather than handling the technical issues only. So, SOA solution provides a wider approach to handle the heterogeneity by having some characteristics like Loosely Coupling, Location Transparency and Protocol independency.

The SOA is an approach to Enterprise Architecture (EA) where its most important element is exposed as a service. The result is a distributed computing environment with a high level of interoperability between systems and platforms. *"The SOA enables the enterprise architect to combine and recombine software elements without the necessity of spending substantial amounts of time or money,*

assuming it has been implemented intelligently." [2]

Also the SOA applies the concept of reusability; the same function can be used across the different systems and platforms. The SOA is based on the principle of developing reusable business service and building applications instead of building specific business service on the current application [3].

The SOA context in this paper is based on web services technology.

1.2 SOA Elements and Interactions

The basic elements of the SOA are:

- The Service: it is a piece of well defined functionality and it is assumed that it is independent from the context it works on.
- The Service Provider: it is a party that is responsible for providing the abstract interface (or service definition) of the services for whoever wants to consume it. The language that describes these interfaces is called Web Service Definition Language or WSDL.
- The Service Consumer: it is the party that consumes the services and it may acts as a service provider in the same time for another service consumer.
- The registry: which contains the abstract definition of the services, it acts as a service repository which the service consumer can query it to obtain the desired service(s). The Universal Description, Discovery, and Integration (UDDI) acts as the registry of the services. *"The UDDI provides a standard-based set of specifications for service description and discovery, as well as a set of Internet-based implementations. UDDI is based on existing standards, such as Extensible Markup Language (XML) and Simple Object Access Protocol (SOAP)"* [4].

There are some ongoing elements that should exist to govern the SOA such as the quality of

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Applying Resource Oriented Architecture G. Lakshmanan, S. V. Subrahmanya, S. Sangeetha, Kumar M. Pradeep, 2014-01-15 Resource Oriented Architecture ROA is an architectural style based on the principles of Representational State Transfer REST ROA is quickly becoming the technology of choice for developing and designing applications for the web for large scale users This book highlights the importance of ROA and how it complements SOA covering cloud computing mobile Internet and QoS among other topics It explains how to build Web services using ROA and discusses the various frameworks and technologies that are most suitable Using case studies and examples to illustrate ROA in practice the text covers various platforms tools and technologies that support ROA

RESTful Web Services Leonard Richardson, Sam Ruby, 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

The Complete Book of Data Anonymization Balaji Raghunathan, 2013-05-21 The Complete Book of Data Anonymization From Planning to Implementation supplies a 360 degree view of data privacy protection using data anonymization It examines data anonymization from both a practitioner's and a program sponsor's perspective Discussing analysis planning setup and

governance it illustrates the entire process of adapting and implementing anonymization tools and programs Part I of the book begins by explaining what data anonymization is It describes how to scope a data anonymization program as well as the challenges involved when planning for this initiative at an enterprisewide level Part II describes the different solution patterns and techniques available for data anonymization It explains how to select a pattern and technique and provides a phased approach towards data anonymization for an application A cutting edge guide to data anonymization implementation this book delves far beyond data anonymization techniques to supply you with the wide ranging perspective required to ensure comprehensive protection against misuse of data

Pro T-SQL Programmer's Guide Jay Natarajan,Rudi Bruchez,Michael Coles,Scott Shaw,Miguel Cebollero,2015-03-02 Pro T SQL Programmer s Guide is your guide to making the best use of the powerful Transact SQL programming language that is built into Microsoft SQL Server s database engine This edition is updated to cover the new in memory features that are part of SQL Server 2014 Discussing new and existing features the book takes you on an expert guided tour of Transact SQL functionality Fully functioning examples and downloadable source code bring technically accurate and engaging treatment of Transact SQL into your own hands Step by step explanations ensure clarity and an advocacy of best practices will steer you down the road to success Transact SQL is the language developers and DBAs use to interact with SQL Server It s used for everything from querying data to writing stored procedures to managing the database Support for in memory stored procedures running queries against in memory tables is new in the language and gets coverage in this edition Also covered are must know features such as window functions and data paging that help in writing fast performing database queries Developers and DBAs alike can benefit from the expressive power of T SQL and Pro T SQL Programmer s Guide is your roadmap to success in applying this increasingly important database language to everyday business and technical tasks Covers the newly introduced in memory database features Shares the best practices used by experienced professionals Goes deeply into the subject matter an advanced book for the serious reader

Service-Oriented Design with Ruby and Rails Paul Dix,2010-08-17 The Complete Guide to Building Highly Scalable Services Based Rails Applications Ruby on Rails deployments are growing and Rails is increasingly being adopted in larger environments Today Rails developers and architects need better ways to interface with legacy systems move into the cloud and scale to handle higher volumes and greater complexity In Service Oriented Design with Ruby and Rails Paul Dix introduces a powerful services based design approach geared toward overcoming all these challenges Using Dix s techniques readers can leverage the full benefits of both Ruby and Rails while overcoming the difficulties of working with larger codebases and teams Dix demonstrates how to integrate multiple components within an enterprise application stack create services that can easily grow and connect and design systems that are easier to maintain and upgrade Key concepts are explained with detailed Ruby code that was built using open source libraries such as ActiveRecord Sinatra Nokogiri and Typhoeus The book concludes with coverage of security scaling messaging and

interfacing with third party services Service Oriented Design with Ruby and Rails will help you Build highly scalable Ruby based service architectures that operate smoothly in the cloud or with legacy systems Scale Rails systems to handle more requests larger development teams and more complex code bases Master new best practices for designing and creating services in Ruby Use Ruby to glue together services written in any language Use Ruby libraries to build and consume RESTful web services Use Ruby JSON parsers to quickly represent resources from HTTP services Write lightweight well designed API wrappers around internal or external services Discover powerful non Rails frameworks that simplify Ruby service implementation Implement standards based enterprise messaging with Advanced Message Queuing Protocol AMQP Optimize performance with load balancing and caching Provide for security and authentication [Hands-On RESTful API Design Patterns and Best Practices](#) Harihara Subramanian,Pethuru Raj,2019-01-31 Build effective RESTful APIs for enterprise with design patterns and REST framework s out of the box capabilities Key FeaturesUnderstand advanced topics such as API gateways API securities and cloudImplement patterns programmatically with easy to follow examplesModernize legacy codebase using API connectors layers and microservicesBook Description This book deals with the Representational State Transfer REST paradigm which is an architectural style that allows networked devices to communicate with each other over the internet With the help of this book you ll explore the concepts of service oriented architecture SOA event driven architecture EDA and resource oriented architecture ROA This book covers why there is an insistence for high quality APIs toward enterprise integration It also covers how to optimize and explore endpoints for microservices with API gateways and touches upon integrated platforms and Hubs for RESTful APIs You ll also understand how application delivery and deployments can be simplified and streamlined in the REST world The book will help you dig deeper into the distinct contributions of RESTful services for IoT analytics and applications Besides detailing the API design and development aspects this book will assist you in designing and developing production ready testable sustainable and enterprise grade APIs By the end of the book you ll be empowered with all that you need to create highly flexible APIs for next generation RESTful services and applications What you will learnExplore RESTful concepts including URI HATEOAS and Code on DemandStudy core patterns like Statelessness Pagination and DiscoverabilityOptimize endpoints for linked microservices with API gatewaysDelve into API authentication authorization and API security implementationsWork with Service Orchestration to craft composite and process aware servicesExpose RESTful protocol based APIs for cloud computingWho this book is for This book is primarily for web mobile and cloud services developers architects and consultants who want to build well designed APIs for creating and sustaining enterprise class applications You ll also benefit from this book if you want to understand the finer details of RESTful APIs and their design techniques along with some tricks and tips **Resource-Oriented Architecture Patterns for Webs of Data** Brian Sletten,2022-05-31 The surge of interest in the REpresentational State Transfer REST architectural style the Semantic Web and Linked Data has resulted in the development of innovative flexible

and powerful systems that embrace one or more of these compatible technologies However most developers architects Information Technology managers and platform owners have only been exposed to the basics of resource oriented architectures This book is an attempt to catalog and elucidate several reusable solutions that have been seen in the wild in the now increasingly familiar patterns book style These are not turn key implementations but rather useful strategies for solving certain problems in the development of modern resource oriented systems both on the public Web and within an organization s firewalls

Component- Oriented Development and Assembly Piram Manickam,S. Sangeetha,S. V. Subrahmanya,2013-12-04 Although industry has been leveraging the advancements of component oriented development and assembly CODA technology for some time there has long been a need for a book that provides a complete overview of the multiple technologies that support CODA Filling this need Component Oriented Development and Assembly supplies comprehensive coverage of the principles practice and paradigm of component oriented development and assembly The first part of the book provides the conceptual foundation for component oriented software Part II focuses on the various standard Java component models and describes how to develop a component oriented system using these component models Part III covers the various aspects of the component oriented development paradigm Based on the authors research and teaching experience the text focuses on the principles of component oriented software development from a technical concepts perspective designer s perspective programmer s perspective and manager s perspective Covering popular component development frameworks based on Java it is suitable as a textbook for component oriented software for undergraduate and postgraduate courses It is also an ideal reference for anyone looking to adopt the component oriented development paradigm The book provides readers with access to all the source code used in the book on a companion site <http://www.codabook.com> The source code for the CODA implementation of the case study presented in Chapter 11 is also hosted on the website The website will also serve as a technical forum for further discussions on the topic and for any updates to the book

Service-oriented Architecture Compass Norbert Bieberstein,2006 Providing a foundation for enterprise architects on the principles of service oriented architecture this text offers guidance on how to begin transitioning an IT infrastructure toward the SOA model an operation tightly integrated into business processes and operations

How to Become an It Architect Cristian Bojinca,2016-11 Defining the various types of IT architecture in the industry this one of a kind resource highlights the rewards of becoming an architect and explores the details of the deliverables project structure and how to approach their creation

Handbook of Research on Architectural Trends in Service-Driven Computing Ramanathan, Raja,Raja, Kirtana,2014-06-30 Research into the next generation of service architecture techniques has enabled the design development and implementation of dynamic adaptive and autonomic services to enable enterprises to efficiently align information technology with their agile business requirements and foster smart services and seamless enterprise integration Handbook of Research on Architectural Trends in Service Driven Computing explores delineates and discusses recent advances in

architectural methodologies and development techniques in service driven computing This comprehensive publication is an inclusive reference source for organizations researchers students enterprise and integration architects practitioners software developers and software engineering professionals engaged in the research development and integration of the next generation of computing *Resource Service Management in Manufacturing Grid System* Fei Tao,Lin Zhang,Yefa Hu,2012-01-20 This book includes discussion on advance computer technologies such as cloud computing grid computing and service computing In addition it furthers the theory and technology of grid technologies that is used in manufacturing and accelerates the development of service oriented manufacturing **Enterprise Service Oriented Architectures** James McGovern,Oliver Sims,Ashish Jain,Mark Little,2006-07-10 Conventional wisdom of the software stack approach to building applications may no longer be relevant Enterprises are pursuing new ways of organizing systems and processes to become service oriented and event driven Leveraging existing infrastructural investments is a critical aspect to the success of companies both large and small Enterprises have to adapt their systems to support frequent technological changes mergers and acquisitions Furthermore in a growing global market these systems are being called upon to be used by external business partners Technology is often difficult costly and complex and without modern approaches can prevent the enterprise from becoming agile Enterprise Service Oriented Architectures helps readers solve this challenge in making different applications communicate in a loosely coupled manner This classic handbook leverages the experiences of thought leaders functioning in multiple industry verticals and provides a wealth of knowledge for creating the agile enterprise In this book you will learn How to balance the delivery of immediate business value while creating long term strategic capability Fundamental principles of a service oriented architecture find bind and execute The four aspects of SOA Production Consumption Management and Provisioning How to recognize critical success factors to implementing enterprise SOAs Architectural importance of service registries interfaces and contracts Why improper service decomposition can hurt you later rather than sooner How application design and integration practices change as architects seek to implement the agile enterprise About the Authors James McGovern is an enterprise architect for The Hartford He is an industry thought leader and co author of the bestselling book A Practical Guideto Enterprise Architecture Oliver Sims is a recognized leader in the architecture design and implementation of service oriented and component based enterprise systems He was a founding member of the OMG Architecture Board He was co author of the groundbreaking book Business Component Factory Ashish Jain is a Principal Architect with Ping Identity Corporation a leading provider of solutions for identity federation Prior to joining Ping Identity he worked with BEA Systems where his role was to assist BEA customers in designing and implementing their e business strategies using solutions based on J2EE He holds several industry certifications from SUN and BEA and is also a board member for the Denver BEA User group Mark Little is Director of Standards and SOA Manager for JBoss Inc Prior to this he was Chief Architect for Arjuna Technologies Ltd and a Distinguished Engineer at Hewlett Packard As well as

being an active member of the OMG JCP OASIS and W3C he is an author on many SOA and Web Services standards He also led the development of the world's first standards compliant Web Services Transaction product

Emerging Standards for Enhanced Publications and Repository Technology Marjan Vernooy-Gerritsen, 2009 Emerging Standards for Enhanced Publications and Repository Technology serves as a technology watch on the rapidly evolving world of digital publication It provides an up to date overview of technical issues underlying the development of universally accessible publications their elemental components and linked information More specifically it deals with questions as how to bring together the communities of the Current Research Information Systems CRIS and the Common European Research Information Format CERIF Case studies like EGEE DILIGENT and DRIVER are analyzed as well as implementations in projects in Ireland Denmark and The Netherlands Interoperability is the keyword in this context and this book introduces to new standards and concepts used in the design of envelopes and packages overlays and feeds embedding publishing formats and Web services and service oriented architecture It is a must read for quick and comprehensive orientation

Integrating and Streamlining Event-Driven IoT Services Zhang, Yang, Guo, Yanmeng, 2018-11-09 In IoT scenarios ways in which large scale and cross domain service systems can be established are still unclear and no systematic or in depth theories and methods have yet been found An effective formal foundation to IoT application designs could serve as a knowledge base for a variety of virtual world applications Integrating and Streamlining Event Driven IoT Services discusses how to observe isolated services running by different observation sources how to fuse different observations to deal with observation conflict and incompleteness and how to deal with adversaries and physical system features for real time property enforcement over the fused knowledge Overall presenting an exploration of systematic theories and methods for the design of IoT services based on the principles of streamlining and integration this book features research on topics such as CEP service virtual machine technologies and hybrid EPC It is ideally designed for engineers researchers and university students seeking coverage on applications for smart cities smart grids and Industry 4.0

Mastering Back-end development Cybellium, Embark on a Profound Journey to Mastering Back End Development In the ever evolving realm of technology mastering the art of back end development is crucial for creating robust and scalable web applications that power modern digital experiences Mastering Back End Development is your definitive guide to navigating the intricate world of server side programming databases and APIs Whether you're a seasoned developer or an aspiring programmer this book equips you with the knowledge and skills needed to excel in crafting powerful and efficient back end systems About the Book Mastering Back End Development takes you on a transformative journey through the intricacies of server side programming from foundational concepts to advanced techniques From databases and APIs to security and performance this book covers it all Each chapter is meticulously designed to provide both a deep understanding of the principles and practical applications in real world scenarios Key Features Foundational Understanding Build a strong foundation by comprehending the core technologies of

back end development including server side languages and databases Database Design and Management Explore database design principles learning how to create efficient database structures and perform complex queries Server Side Languages Master server side programming languages like Python Ruby PHP or Node js and understand how to create dynamic web applications API Development Dive into building RESTful APIs understanding API design principles authentication and how to enable communication between front end and back end systems Security and Authentication Learn how to implement security measures including data encryption user authentication and protection against common web vulnerabilities Caching and Performance Optimization Gain insights into strategies for caching optimizing database queries and improving the overall performance of back end systems Scalability and Deployment Explore techniques for designing scalable architectures and deploying back end applications to cloud platforms Challenges and Emerging Trends Discover challenges in back end development from maintaining data integrity to managing server resources and explore emerging trends shaping the future of server side programming Who This Book Is For Mastering Back End Development is designed for developers programmers software engineers students and anyone passionate about creating powerful web applications Whether you re aiming to enhance your skills or embark on a journey toward becoming a back end development expert this book provides the insights and tools to navigate the complexities of building robust digital systems 2023 Cybellium Ltd All rights reserved www.cybellium.com

Parallel Processing and Applied Mathematics Roman Wyrzykowski,Jack Dongarra,Norbert Meyer,Jerzy Wasniewski,2006-06-09 This book constitutes the thoroughly refereed post proceedings of the 6th International Conference on Parallel Processing and Applied Mathematics PPAM 2005 The book presents 135 papers organized in topical sections on parallel and distributed architectures parallel and distributed non numerical algorithms performance analysis prediction and optimization grid programming tools and environments for clusters and grids applications of parallel distributed grid computing evolutionary computing with applications parallel data mining parallel numerics and mathematical and computing methods

Exploring Enterprise Service Bus in the Service-Oriented Architecture Paradigm Bhadoria, Robin Singh,Chaudhari, Narendra,Tomar, Geetam Singh,Singh, Shailendra,2017-02-14 Web browsing would not be what it is today without the use of Service Oriented Architecture SOA Although much has been written about SOA methodology this emerging platform is continuously under development Exploring Enterprise Service Bus in the Service Oriented Architecture Paradigm is a detailed reference source that examines current aspects and research methodologies that enable enterprise service bus to unify and connect services efficiently on a common platform Featuring relevant topics such as SOA reference architecture grid computing applications complex event computing and java business integration this is an ideal resource for all practitioners academicians graduate students and researchers interested in the discoveries on the relationship that Service Oriented architecture and enterprise service bus share

Air Pollution XXVII Passerini,G.,Borrego,C.,Longhurst,J.,Lopes,M.,Barnes,J.,2019-09-05 In its 27th edition the conference on Air Pollution

continues to produce valuable research on issues related to the modelling monitoring and management of air pollution The papers included in this book continue a wide ranging collection of high quality research works that develop the fundamental science of air pollution

DESIGNING SMART SYSTEMS Dr. V. Suresh Kumar, 2022-11-24 The term Internet of Things initially came to people's attention when the Auto ID Centre introduced their first concept of the EPC network for automatically identifying and tracking the flow of goods in supply chains in Chicago in September 2003 EPC Symposium 2003 Although David Brock introduced the phrase Internet of Things for the first time in a paper he authored on the Electronic Product Code for the Auto ID Centre in 2001 Brock 2001 a growing number of scholars and practitioners have adopted this philosophy This is demonstrated by the rise of publications gatherings and symposiums whose names include Internet of Things The notion of the Internet of Things describes the seamless fusion of the physical world of items with the digital world of information technology Computers and other networked devices facilitate access to the real world in both personal and professional contexts Management will be able to move between the macro and micro levels of the company more easily and measure plan and act accordingly if they have access to information with a finer grain But in addition to helping businesses manage their operations more effectively and efficiently the Internet of Things will also make life in general more convenient Since the Auto ID Centre's founders coined the phrase Internet of Things it has been extensively utilised by researchers and professionals Santucci 2010 This phrase refers to the blending of the physical world with the digital realm of information technology using automated identification technologies real time locating systems sensors and actuators Fleisch and Mattern 2005 Bullinger and ten Hompel 2007 Floerke Meier et al 2008

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