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**Architect and deliver packaged
Force.com applications that cater
to enterprise business needs**

**About This Book Explore the
lightning framework, advanced
application life cycle processes,
and testing Use the Force.com
platform to build truly integrated,
scalable, and robustly engineered
applications focused on enterprise-
level customer demands Using the
Lightning technology to deliver
modern and responsive user
experiences targeting multiple**

devices through Lightning Experience and Salesforce1 Mobile. Step-by-step, work on examples to get you building your own ready-to-install packaged application Who This Book Is For
This book is for advanced Force.com developers and architects who need to understand the Salesforce platform from the perspective of enterprise-level requirements. A prior understanding of Apex and Visualforce is a must. Those familiar with other enterprise software ecosystems will also find this book ideal as they adopt Force.com. What You Will Learn
Package, install, test, and upgrade

**an application Define architecture-
aligning data storage and
functional requirements Develop
Apex code that is easy to navigate,
self-documenting, testable, robust,
and organic Leverage your
application's clientagnostic
Service layer backbone to support
numerous platform areas Get the
most from hosting your
application within the Lightning
Experience and Salesforce1
Mobile clients Apply querying,
indexing, and asynchronous best
practices Leverage mocking and
dependency injection in your
Apex tests Explore tips for
developing advanced applications
In Detail Companies of all sizes**

have seen the need for Force.com's architectural strategy focused on enabling their business objectives. Successful enterprise applications require planning, commitment, and investment in the best tools, processes, and features available. This book will teach you how to architect and support enduring applications for enterprise clients with Salesforce by exploring how to identify architecture needs and design solutions based on industry standard patterns. There are several ways to build solutions on Force.com, and this book will guide you through a logical path and show you the steps and

considerations required to build packaged solutions from start to finish. It covers all aspects, from engineering to getting your application into the hands of your customers, and ensuring that they get the best value possible from your Force.com application. You will get acquainted with extending tools such as Lightning App Builder, Process Builder, and Flow with your own application logic. In addition to building your own application API, you will learn the techniques required to leverage the latest Lightning technologies on desktop and mobile platforms. Style and approach The book takes a

straightforward approach, taking apart the Force.com architecture for you to gain a deep understanding of how you can implement the Salesforce platform based on enterprise-level requirements.

Web services have been used for many years. In this time, developers and architects have encountered a number of recurring design challenges related to their usage, and have learned that certain service design approaches work better than others to solve certain problems. In Service Design Patterns, Rob Daigneau codifies proven design solutions for web services that

follow the REST architectural style or leverage the SOAP/WSDL specifications. This catalogue identifies the fundamental topics in web service design and lists the common design patterns for each topic. All patterns identify the context in which they may be used, explain the constituent design elements, and explore the relative strengths and trade-offs. Code examples are provided to help you better understand how the patterns work but are kept general so that you can see how the solutions may be applied to disparate technologies that will inevitably change in the years to come. This book will help readers

**answer the following questions:
How do you create a web service
API, what are the common API
styles, and when should a
particular style be used? How can
clients and web services
communicate, and what are the
foundations for creating complex
conversations in which multiple
parties exchange data over
extended periods of time? What
are the options for implementing
web service logic, and when
should a particular approach be
used? How can clients become less
coupled to the underlying systems
used by a service? How can
information about a web service
be discovered? How can generic**

functions like authentication, validation, caching, and logging be supported on the client or service? What changes to a service cause clients to break? What are the common ways to version a service? How can web services be designed to support the continuing evolution of business logic without forcing clients to constantly upgrade? This book is an invaluable resource for enterprise architects, solution architects, and developers who use web services to create enterprise IT applications, commercial or open source products, and Software as a Service (SaaS) products that leverage emerging

Cloud platforms.

Explains what Web services technologies are and how they work, discussing how to use them and what they do and covering topics including SOAP, WSDL, UDDI, security, interoperability, and integration.

Understand everything you need to know about Oracle's Integration Cloud Service and how to utilize it optimally for your business About This Book The only guide to Integration Cloud Service in the market Focused on practical action to deliver business value A professional's guide to an expensive product, providing comprehensive training, and

**showing how to extract real
business value from the product
Who This Book Is For This book
is ideal for any IT professional
working with ICS, any Oracle
application or cloud solution
developer or analyst who wants to
work with ICS to deliver business
value. What You Will Learn Use
ICS to integrate different systems
together without needing to be a
developer Gain understanding of
what a number of technologies
and standards provide – without
needing to understand the fine
details of those standards and
technologies Understand the use
of connectors that Oracle provide
from technology based**

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connections such as file and database connections to SaaS solutions ranging from Salesforce to Twitter Enrich data and extend SaaS integration to route to different instances Utilize a number of tools to help develop and check that your integrations work before connecting to live systems Introduce and explain integration concepts so that the integrations created are maintainable and sustainable for the longer term Provide details on how to keep up to date with the features that Oracle and partners provide in the future Get special connections developed to work with ICS In Detail Businesses are

built on data, and applications that access that data. In modern businesses the same cloud-based data stores and applications might be accessed by hundreds of different applications from thousands of different devices via APIs. To make this happen, APIs must be wired together i.e. integrated. Oracle Integration Cloud Service provides a complete method for integrating enterprise applications in the cloud. Integration Cloud Service (ICS) provides a cloud hosted means to integrate systems together using a graphical means to define and represent integrations. This book will be a comprehensive, hands-on

guide to building successful, high-availability integrations on ICS.

This book sets out to demonstrate how ICS can be used to effectively implement integrations that work both in the cloud and on premise.

It starts with a fast, practical introduction to what ICS can do for your business and then shows how ICS allows you to develop integrations not only quickly but in a way that means they are maintainable and extensible.

Gradually it moves into more advanced integrations, showing how to achieve sophisticated results with ICS and work with external applications. Finally the book shows you how to monitor

cloud apps and go beyond ICS to build even more powerful integrated applications. By the end of the book, you will the knowledge on how to use ICS to solve your own integration needs and harness the technologies in a maintainable and sustainable manner. Style and approach This book will take a pragmatic approach and will be a business-focused guide to delivering business value with ICS.

Pro RESTful APIs

Service Design Patterns

Implementing Oracle Integration

Cloud Service

RESTful Web Services

Second International Workshop,

**DILS 2005, San Diego, CA, USA,
July 20-22, 2005, Proceedings**

SOA Using Java Web Services

***Explore the current state of
the production, processing,
and manufacturing industries
and discover what it will take
to achieve re-industrialization
of the former industrial
powerhouses that can
counterbalance the benefits of
cheap labor providers
dominating the industrial
sector. This book explores the
potential for the Internet of
Things (IoT), Big Data, Cyber-
Physical Systems (CPS), and
Smart Factory technologies to
replace the still largely***

mechanical, people-based systems of offshore locations. Industry 4.0: The Industrial Internet of Things covers Industry 4.0, a term that encapsulates trends and technologies that could rewrite the rules of manufacturing and production. What You'll Learn: Discover the Industrial Internet and Industrial Internet of Things See the technologies that must advance to enable Industry 4.0 and learn what is happening today to make that happen Observe examples of the implementation of Industry 4.0 Apply some of these case

studies Discover the potential to take back the lead in manufacturing, and the potential fallout that could result Who This Book is For: Business futurists, business strategists, CEOs and CTOs, and anyone with an interest and an IT or business background; or anyone who may have a keen interest in how the future of IT, industry and production will develop over the next two decades. "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.**

**Constructing the Infrastructure
for the Knowledge Economy:
Methods and Tools, Theory
and Practice is the
proceedings of the 12th
International Conference on
Information Systems
Development, held in
Melbourne, Australia, August
29-31, 2003. The purpose of
these proceedings is to
provide a forum for research
and practice addressing
current issues associated with
Information Systems
Development (ISD). ISD is
undergoing dramatic**

transformation; every day, new technologies, applications, and methods raise the standards for the quality of systems expected by organizations as well as end users. All are becoming more dependent on the systems reliability, scalability, and performance. Thus, it is crucial to exchange ideas and experiences, and to stimulate exploration of new solutions. This proceedings provides a forum for just that, addressing both technical and organizational issues. Believe it or not, building an API is the easy part. What is

far more challenging is to put together a design that will stand the test of time, while also meeting your developers' needs. After all, no matter how well written your code may be, without a strong foundation, you will find your API quickly failing. Undisturbed REST works to tackle this issue through the use of modern design techniques and technology, showing how to carefully design your API with your users and longevity in-mind, taking advantage of a design-first approach- while incorporating best practices and hard lessons learned.

After reading Undisturbed REST, you'll have a strong understanding of APIs, best practices, and available tooling for designing, prototyping, sharing, documenting, and generating tooling (such as SDKs) around your API. More importantly, you'll be equipped to design and build an API not just for today, but one that can stand the test of time and lead your application into tomorrow.

Design and deliver valuable business APIs

Web Engineering

RESTful Web API Design with Node.js 10, Third Edition

A Complete Guide to Portals and User Experience

Platforms

Handbook of Enterprise

Integration

Constructing the Infrastructure for the Knowledge Economy

If you're up on the latest Java technologies, then you know that Enterprise JavaBeans (EJB) 3.0 is the hottest news in Java this year. In fact, EJB 3.0 is being hailed as the new standard of server-side business logic programming. And O'Reilly's award-winning book on EJB has been refreshed just in time to capitalize on the technology's latest rise in popularity. This fifth edition, written by Bill Burke and Richard Monson-Haefel, has been

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updated to capture the very latest need-to-know Java technologies in the same award-winning fashion that drove the success of the previous four strong-selling editions. Bill Burke, Chief Architect at JBoss, Inc., represents the company on the EJB 3.0 and Java EE 5 specification committees. Richard Monson-Haefel is one of the world's leading experts on Enterprise Java. Enterprise JavaBeans 3.0, 5th Edition is organized into two parts: the technical manuscript followed by the JBoss workbook. The technical manuscript explains what EJB is, how it works, and when to use it. The JBoss workbook provides step-by-step instructions for installing,

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configuring, and running the examples from the manuscript on the JBoss 4.0 Application Server. Although EJB makes application development much simpler, it's still a complex and ambitious technology that requires a great deal of time to study and master. But now, thanks to Enterprise JavaBeans 3.0, 5th Edition, you can overcome the complexities of EJBs and learn from hundreds of practical examples that are large enough to test key concepts but small enough to be taken apart and explained in the detail that you need. Now you can harness the complexity of EJB with just a single resource by your side.

Annotation ADempiere is one the of the leading open source ERP

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products in today's business market. ADempiere offers everything you need to make your business successful: efficient data management, streamlined business processes, reduction in costs, and minimal complexity. This practical cookbook offers effective recipes for the extension and customization of ADempiere. It bypasses unnecessary theory. You will learn to install ADempiere correctly and get straight into practical tasks. When you read the book, you'll understand ADempiere workflow and the important functions of managing your data. Real-world business-critical activities such as integrating ADempiere with e-mail clients, office suites,

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shipping data, analytical processing tools, reporting tools, shopping carts, and web services are covered in detail.

This book constitutes the refereed proceedings of the 5th International Conference on Web Engineering, ICWE 2005, held in Sydney, Australia in July 2005.

The 33 revised full papers, 36 revised short papers, and 17

poster and demo papers presented together with

abstracts of 4 invited keynotes were carefully reviewed and selected from 180 submissions.

The papers are organized in topical sections on Web engineering milieu, evaluation and verification, non-functional requirements and testing, query and retrieval, applications,

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ontologies and XML, semantics and semantic Web, Web security, Web services and application design, and miscellaneous.

Annotation & bull; & bull;Covers J2EE, XML, XSD and JAXP (the Java XML API) Web Services, SOAP, UDDI, WSDL, Web Services Security and

Interoperability & bull;Brings Java developers up to speed on developing Web Services applications using J2EE technologies and APIs &

bull;Written by Richard Monson-Heafel & ndash; author with loyal following! & bull;This is the first book in a series of a books by Richard Monson-Heafel.

Implementing Microsoft Dynamics 365 for Finance and Operations Apps

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Up and Running

*J2EE Security for Servlets, EJBs
and Web Services*

*ASOCA, ISyCC, WESOACS, and
Satellite Events, Málaga, Spain,
November 13-16, 2017, Revised
Selected Papers*

*5th International Conference,
ICWE 2005, Sydney, Australia,
July 27-29, 2005, Proceedings
Hybrid Cloud Event Integration:
Integrate Your Enterprise and
Cloud with Bluemix Integration
Services*

This book constitutes the revised selected papers of the scientific satellite events that were held in conjunction with the 15th International Conference on Service-Oriented Computing, ICSOC

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2017, held in Málaga, Spain, in November 2017. The ICSOC 2017 workshop track consisted of three workshops on a wide range of topics that fall into the general area of service computing: ASOCA 2017: The Second Workshop on Adaptive Service-Oriented and Cloud Applications ISyCC 2016: The Second Workshop on IoT Systems Provisioning and Management in Cloud Computing WESOACS 2017: The 13th International Workshop on Engineering Service-Oriented Applications and Cloud Services

This example-driven book

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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

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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

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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. The workshop was organized by the San Diego Supercomputer Center (SDSC) and took place July 20 -22, 2005 at the University of California, San Diego. More than 80 recipes to help you leverage the various extensibility features available for Microsoft Dynamics and solve problems easily About This Book Customize, configure, and extend the

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vanilla features of Dynamics 365 to deliver bespoke CRM solutions fit for any organization Implement business logic using point-and-click configuration, plugins, and client-side scripts with MS Dynamics 365 Built a DevOps pipeline as well as Integrate Dynamics 365 with Azure and other platforms Who This Book Is For This book is for developers, administrators, consultants, and power users who want to learn about best practices when extending Dynamics 365 for enterprises. You are expected to have a basic understand of the

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Dynamics CRM/365 platform.

What You Will Learn

Customize, configure, and extend Microsoft Dynamics 365 Create business process automation Develop client-side extensions to add features to the Dynamics 365 user interface Set up a security model to securely manage data with Dynamics 365 Develop and deploy clean code plugins to implement a wide range of custom behaviors Use third-party applications, tools, and patterns to integrate Dynamics 365 with other platforms Integrate with Azure, Java,

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SSIS, PowerBI, and Octopus Deploy Build an end-to-end DevOps pipeline for Dynamics 365 In Detail Microsoft Dynamics 365 is a powerful tool. It has many unique features that empower organisations to bridge common business challenges and technology pitfalls that would usually hinder the adoption of a CRM solution. This book sets out to enable you to harness the power of Dynamics 365 and cater to your unique circumstances. We start this book with a no-code configuration chapter and explain the schema, fields,

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and forms modeling techniques. We then move on to server-side and client-side custom code extensions. Next, you will see how best to integrate Dynamics 365 in a DevOps pipeline to package and deploy your extensions to the various SDLC environments. This book also covers modern libraries and integration patterns that can be used with Dynamics 365 (Angular, 3 tiers, and many others). Finally, we end by highlighting some of the powerful extensions available. Throughout we explain a range of design patterns and

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techniques that can be used to enhance your code quality; the aim is that you will learn to write enterprise-scale quality code. Style and approach This book takes a recipe-based approach, delivering practical examples and use cases so that you can identify the best possible approach to extend your Dynamics 365 deployment and tackle your specific business problems. Learn best practices, architecture, tools, techniques, and more, 2nd Edition

A Manager's Guide

Hybrid Cloud Data and API

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Integration: Integrate Your
Enterprise and Cloud with
Bluemix Integration Services
Google, Amazon, and Beyond:
Creating and Consuming Web
Services

An Architectural and Practical
Guide to IBM Hybrid
Integration Platform
Design, Build and Integrate
with REST, JSON, XML and
JAX-RS

In this book you'll learn the concepts of
SOAP based Web Services architecture
and get practical advice on building
and deploying Web Services in the
enterprise. Starting from the basics and
the best practices for setting up a
development environment, this book

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enters into the inner details of the JAX-WS in a clear and concise way. You will also learn about the major toolkits available for creating, compiling and testing SOAP Web Services and how to address common issues such as debugging data and securing its content.

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

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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-

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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

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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

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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
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Guide Appendix C: Namespace
Prefixes Glossary References Index

Data is at the center of many
challenges in system design today.
Difficult issues need to be figured out,
such as scalability, consistency,
reliability, efficiency, and
maintainability. In addition, we have an
overwhelming variety of tools,
including relational databases, NoSQL
datastores, stream or batch processors,
and message brokers. What are the
right choices for your application?
How do you make sense of all these

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buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data.

Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and

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complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures

Maintaining compatibility among all affected network and application interfaces of modern enterprise systems can quickly become costly and overwhelming. This handbook presents the knowledge and practical experience of a global group of experts from varying disciplines to help you plan and implement enterprise integration projects that respond to bu

A Guide to Designing the Perfect API
Undisturbed Rest

Concepts, Architectures and
Applications

An Introduction To Component-based

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Software Development

Microsoft Dynamics 365 Extensions

Cookbook

J2EE Web Services

Master Force.com, Today ' s

Fastest, Most Flexible Cloud

Development Platform With

Salesforce.com ' s Force.com

platform, you can build and deploy

powerful cloud-based enterprise

applications faster than ever before.

Now, Jason Ouellette gives you all

the practical, technical guidance you

need to make the most of the newest

Force.com releases in your own

custom cloud applications.

Throughout, he adds new code and

updated best practices for rapidly

prototyping, building, and testing

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production-quality Force.com solutions. This edition ' s extensive new coverage includes Developer Console, JSON, Streaming and Tooling APIs, Bulk API, Force.com Canvas, REST integration, support for Web MVC frameworks, Dynamic Apex and Visualforce, and an all-new chapter on mobile user interfaces. Ouellette covers the entire platform: UIs, database design, analytics, security, and many other topics. His code examples emphasize maintainability, flexibility, and seamless integration—and you can run and adapt all of them with a free Force.com Developer Edition account. Coverage includes:

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Leveraging Force.com ' s customizable infrastructure to deliver advanced Platform-as-a-Service (PaaS) solutions

Understanding Force.com ' s unique processes, tools, and architecture

Developing a complete application, from requirements and use cases through deployment

Using the Force.com database as a framework for highly flexible, maintainable applications

Applying Force.com ' s baked-in security, including user identity, data ownership, and fine-grained access control

Constructing powerful business logic with Apex, SOQL, and SOSL

Adopting asynchronous actions, Single Page Applications,

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and other advanced features in Web user interfaces Building intuitive user interfaces with Visualforce, and extending them to public-facing websites and mobile devices

Creating smartphone/tablet-friendly apps with HTML5 and Visualforce Performing massive data-intensive tasks offline with Batch Apex Using Force.com integration options, including REST, SOAP, Canvas, and the Streaming, Bulk, Tooling, and Metadata APIs Developing internal social applications with Force.com ' s Chatter collaboration tools If you ' re already building Web or mobile applications, take your next giant step into enterprise cloud development—with

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Development with the Force.com Platform, Third Edition. All code examples in this book are available on Github at <http://goo.gl/fjRqMX>, and as a Force.com IDE project on Github at <https://github.com/jmouel/dev-with-force-3e>.

Design and implement scalable and maintainable RESTful solutions with Node.js 10 Key Features Create rich and scalable RESTful API solutions from scratch Explore the new features of Node.js 10, Express 4.0, and MongoDB Integrate MongoDB in your Node.js application to store and secure your data Book Description When building RESTful services, it is

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really important to choose the right framework. Node.js, with its asynchronous, event-driven architecture, is exactly the right choice for building RESTful APIs. This third edition of RESTful Web API Design with Node.js 10 will teach you to create scalable and rich RESTful applications based on the Node.js platform. You will be introduced to the latest NPM package handler and understand how to use it to customize your RESTful development process. You will begin by understanding the key principle that makes an HTTP application a RESTful-enabled application. After writing a simple HTTP request handler, you will

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create and test Node.js modules using automated tests and mock objects; explore using the NoSQL database, MongoDB, to store data; and get to grips with using self-descriptive URLs. You ' ll learn to set accurate HTTP status codes along with understanding how to keep your applications backward-compatible. Also, while implementing a full-fledged RESTful service, you will use Swagger to document the API and implement automation tests for a REST-enabled endpoint with Mocha. Lastly, you will explore some authentication techniques to secure your application. What you will learn Install, develop, and test

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your own Node.js user modules

Understand the differences between

HTTP and RESTful applications

Use self-descriptive URLs and set
accurate HTTP status codes

Eliminate third-party dependencies
in your tests with mocking

Implement automation tests for a
REST-enabled endpoint with

Mocha Secure your services with

NoSQL database integration within

Node.js applications Integrate a

simple frontend using JavaScript

libraries available on a CDN server

Who this book is for If you are a

web developer keen to enrich your

development skills to create server-

side RESTful applications based on

the Node.js platform, this book is for

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you. Some knowledge of REST would be an added advantage, but is definitely not a necessity.

Guides business and technology managers through the basics of Web Services technology, discussing applicatino integration, standards, technologies, and scenarios.

Exam topics covered include tasks and scheduling, remoting, the Spring Web Services framework, RESTful services with Spring MVC, the Spring JMS module, JMS and JTA transactions with Spring, batch processing with Spring Batch and the Spring Integration framework. Prepare with confidence for the Pivotal Enterprise Integration with Spring Exam. One of the important

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aspects of this book is a focus on new and modern abstractions provided by Spring. Therefore most of the features are shown with Java annotations alongside established XML configurations. Most of the examples in the book are also based on the Spring Boot framework. Spring Boot adoption is exponential because of its capability to significantly simplify Spring configuration using sensible opinionated defaults. But Spring Boot is not the target of the exam, therefore all the features are also covered with plain Spring configuration examples. How to use Spring to create concurrent applications and schedule tasks How

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to do remoting to implement client-server applications How to work with Spring Web services to create loosely coupled Web services and clients How to use Spring MVC to create RESTful web services and clients How to integrate JMS for asynchronous messaging-based communication How to use local JMS transactions with Spring How to configure global JTA transactions with Spring How to use Spring Integration to create event-driven pipes-and-filters architectures and integrate with external applications How to use Spring Batch for managed, scalable batch processing that is based on both custom and built-in processing components

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Learn to create robust RESTful web services with Node.js, MongoDB, and Express.js, 3rd Edition

Advanced JAX-WS Web Services

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Designing Data-Intensive

Applications

Service-Oriented Computing –

ICSOC 2017 Workshops

Force.com Enterprise Architecture

* Lays out the foundations of Web

services technology: XML, SOAP and

WSDL * Presents Web service interfaces

to Google, Amazon, and others *

Describes, with many examples, how to

create Web service clients in cross-

browser Javascript, Java (including JSP)

and .NET * Shows how to build Web

services which combine the results from

existing services with your own programs

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and database usage; Shows how RSS and other XML data can supplement web services

In order to remain competitive in today's world, companies need to be able to integrate internally and externally by connecting sensors, customers and partners with the information in their systems of record. In short, they need to integrate with everything. This IBM® Redbooks® publication describes how IBM Application Integration Suite and IBM Messaging portfolio can be used to satisfy the needs of core hybrid integration use cases, accelerating companies in their digital transformation journey. All concepts are explained within the context of these use cases: Joining the API economy Improving productivity Refactoring for innovation The target audience for this book is cloud and integration architects and specialists who

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are implementing hybrid integration solutions.

- Explains security concepts in simple terms and relates these to standards, Java APIs, software products and day-to-day job activities of programmers.
- Written by a practitioner who participated in the development of a J2EE App Server and Web Services Platform at HP.
- Applied security measures demonstrated on Java APIs - a unique feature of the book.

IBM® Hybrid Integration Services is a set of hybrid cloud capabilities in IBM Bluemix™ that allows businesses to innovate rapidly while, at the same time, providing IT control and visibility. It allows customers to quickly and easily build and operate systems that mix data and application programming interfaces (APIs) from a wide variety of sources, whether they reside on-premises or in the cloud. In many cases, you want to expose

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your IT assets from your private cloud as APIs and at the same time have best overall manageability and control of who uses your assets and how. Bluemix provides a set of services such as Secure Gateway, API Management, Connect and Compose, DataWorks, and API Catalog, which enable Hybrid Cloud Integration capabilities. This IBM Redbooks® publication provides preferred practices around developing cloud solutions using these Hybrid Integration Services that help you maintain data consistency, manageability, and security for critical transactions.

Development with the Force.com Platform
Methods and Tools, Theory and Practice
Java Web Services

The Industrial Internet of Things
Pivotal Certified Spring Enterprise
Integration Specialist Exam
A Study Guide

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Like many other incipient technologies, Web services are still surrounded by a substantial level of noise. This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be. On the one hand, multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services. On the other hand, the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term. These factors make it

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extremely difficult to get a coherent picture of what Web services are, what they contribute, and where they will be applied. Alonso and his co-authors deliberately take a step back. Based on their academic and industrial experience with middleware and enterprise application integration systems, they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware, necessary to meet the challenges of the Web and of B2B application integration. Rather than providing a reference guide or a "how to write your first Web service" kind of book, they discuss the main objectives of Web

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services, the challenges that must be faced to achieve them, and the opportunities that this novel technology provides. Established, as well as recently proposed, standards and techniques (e.g., WSDL, UDDI, SOAP, WS-Coordination, WS-Transactions, and BPEL), are then examined in the context of this discussion in order to emphasize their scope, benefits, and shortcomings. Thus, the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies.

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A strategy and implementation guide for building, deploying, and managing APIs Key Features Comprehensive, end-to-end guide to business-driven enterprise APIs Distills years of experience with API and microservice strategies Provides detailed guidance on implementing API-led architectures in any business

Book Description APIs are the cornerstone of modern, agile enterprise systems. They enable access to enterprise services from a wide variety of devices, act as a platform for innovation, and open completely new revenue streams. Enterprise API Management shows how to define the right architecture, implement the right patterns, and

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define the right organization model for business-driven APIs. Drawing on his experience of developing API and microservice strategies for some of the world's largest companies, Luis Weir explains how APIs deliver value across an enterprise. The book explores the architectural decisions, implementation patterns, and management practices for successful enterprise APIs, as well as providing clear, actionable advice on choosing and executing the right API strategy in your enterprise. With a relentless focus on creating business value, Luis Weir reveals an effective method for planning, building, and running business products and services

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with APIs. What you will learn

- Create API strategies to deliver business value
- Monetize APIs, promoting them through public marketplaces and directories
- Develop API-led architectures, applying best practice architecture patterns
- Choose between REST, GraphQL, and gRPC-style API architectures
- Manage APIs and microservices through the complete life cycle
- Deploy APIs and business products, as well as Target Operating Models
- Lead product-based organizations to embrace DevOps and focus on delivering business capabilities

Who this book is for Architects, developers, and technology executives who want to

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deliver successful API strategies that bring business value.

Build a Next-Generation Enterprise Digital Platform with Portals and UXP A Complete Guide to Portals and User Experience Platforms provides in-depth coverage of portal technologies and user experience platforms (UXPs), which form the key pillars of a modern digital platform. Drawing on his experience in various roles in numerous portal engagements, the author gives you different perspectives of the same technology platform. The first section introduces portal through multiple viewpoints to cater to a wide audience, including business, operations, development,

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integration, performance, and architecture views. The book details many novel and practically proven models and frameworks, such as portal value realization framework, portal assessment framework, portal evaluation model, portal infrastructure planning techniques, and portal integration techniques. You also learn about effective digital program strategies, including portal roadmap strategy, collaboration strategy, portal security planning, portal testing strategy, SEO, and analytics planning concepts. The second section dives into UXP and advanced topics. It elaborates on UXP design concepts, including UXP reference architecture,

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customer touch point analysis, user experience mapping, and responsive web design. It also looks at advanced topics, such as next-generation portals, portal trends, portal user experience strategy, omni-channel strategy, portal KPI, portal pitfalls and best practices, portal security, portal governance, digital program management, and portal performance engineering. In the third section, the book presents four case studies related to intranet portals, retail portals, customer service portals, and portal content management. It discusses business drivers, challenges, portal solutions, and solution benefits for each of the case studies. Written by a

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seasoned practitioner, this book balances the core topics of modern portals along with emerging technologies in the digital space. Suitable for the entire digital technology community, including IT managers, digital architects, developers, and testers, it provides you with a practical guide for successfully building best practices-based digital platforms with forward-looking features.

Gain a strong foundation of core WSO2 ESB concepts and acquire a proven set of guidelines designed to get you started with WSO2 ESB quickly and efficiently. This book focuses on the various enterprises integration capabilities of WSO2 ESB along with a broad range of

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examples that you can try out.

From beginning to the end, *Beginning WSO2 ESB* effectively guides you in gradually building expertise in enterprise integration with WSO2 ESB for your SOA infrastructure. Nowadays successful enterprises rely heavily on how well the underlying software applications and services work together to produce a unified business functionality. This enterprise integration is facilitated by an Enterprise Service Bus (ESB). This book provides comprehensive coverage of the fundamentals of the WSO2 ESB and its capabilities, through real-world enterprise integration use cases. **What You'll Learn Get**

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started with WSO2 ESB Discover message processing techniques with WSO2 ESB Integrate REST and SOAP services Use enterprise messaging techniques: JMS, AMQP, MQTT Manage file-based integration and integrate with proprietary systems such as SAP Extend and administrate WSO2 ESB Who This Book Is For: All levels of IT professionals from developers to integration architects who are interested in using WSO2 ESB for their SOA infrastructure.

Industry 4.0

J2EE Platform Web Services

Innovative Approaches for Learning and Knowledge Sharing

Enterprise API Management

Practical guide for creating SOAP

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Web Services using opensource solutions

Building Distributed Applications

Build robust, scalable, end-to-end business solutions with J2EE(TM)

Web Services. This is the

definitive practitioner's guide to building enterprise-class J2EE

Web Services that integrate with any B2B application and

interoperate with any legacy

system. Sun senior architect Ray

Lai introduces 25 vendor-

independent architectural

patterns and best practices for

designing Web Services that

deliver outstanding performance, scalability, and reliability. Lai

takes you to the frontiers of

emerging Web Services

technologies, showing how to

make the most of today's leading-

edge tools, from Java Web Services Developer Pack to Apache Axis. Coverage includes:
Web Services: making the business case, and overcoming the technical and business challenges
Real-life examples and scenarios, and a start-to-finish application case study
Expert guidance on reducing risk and avoiding implementation pitfalls
Building complete business solutions with rich messaging and workflow collaboration
Mainframe interoperability and B2B integration within and beyond the enterprise
Framework and methodology to develop your Web Services patterns and best practices
Up-to-the-minute coverage of Web Services security
New applications: service

consolidation, wireless, and more
An extensive library of links to
Web resources, reference
material, and vendors Whether
you're an architect, designer,
project leader, or developer,
these are the best practices,
patterns, and techniques you
need to succeed with Web
services in your enterprise
environment. Enterprises seeking
to leverage Web Services to
revolutionize the ways they
deliver services to customers,
partners, and employees will find
the answers they need in this
book. "Ray Lai's J2EETM Platform
Web Services is a comprehensive
look at J2EE platform
architecture and should be a
must read for any serious Web
Services developer." --Larry Tabb,

Senior Strategic Advisor, Tower Group "This is a book for true practitioners. It's for those interested in designing and implementing Web Services now- and preparing for new opportunities on the horizon."

--Jonathan Schwartz, Executive Vice President, Sun Microsystems

The web services architecture provides a new way to think about and implement application-to-application integration and interoperability that makes the development platform irrelevant. Two applications, regardless of operating system, programming language, or any other technical implementation detail, communicate using XML messages over open Internet protocols such as HTTP or SMTP.

The Simple Open Access Protocol (SOAP) is a specification that details how to encode that information and has become the messaging protocol of choice for Web services. Programming Web Services with SOAP is a detailed guide to using SOAP and other leading web services standards--WSDL (Web Service Description Language), and UDDI (Universal Description, Discovery, and Integration protocol). You'll learn the concepts of the web services architecture and get practical advice on building and deploying web services in the enterprise. This authoritative book decodes the standards, explaining the concepts and implementation in a clear, concise style. You'll also learn

about the major toolkits for building and deploying web services. Examples in Java, Perl, C#, and Visual Basic illustrate the principles. Significant applications developed using Java and Perl on the Apache Tomcat web platform address real issues such as security, debugging, and interoperability. Covered topic areas include: The Web Services Architecture SOAP envelopes, headers, and encodings WSDL and UDDI Writing web services with Apache SOAP and Java Writing web services with Perl's SOAP::Lite Peer-to-peer (P2P) web services Enterprise issues such as authentication, security, and identity Up-and-coming standards projects for web services Programming Web

Services with SOAP provides you with all the information on the standards, protocols, and toolkits you'll need to integrate information services with SOAP. You'll find a solid core of information that will help you develop individual Web services or discover new ways to integrate core business processes across an enterprise.

The challenges of designing, building, and maintaining large-scale, distributed enterprise systems are truly daunting. Written for all IT professionals, The Complete Book of Middleware will aid in resolving new business objectives, new technologies, and vendor disputes. This book focuses on the essential principles and

priorities of system design and emphasizes the new requirements brought forward by the rise of e-commerce and distributed integrated systems. This reference highlights the changes to middleware technologies and standards. It offers a concise overview of middleware technology alternatives and distributed systems. Many increasingly complex examples are incorporated throughout and the book concludes with guidelines on the practice of IT architecture. Performance considerations such as caching and monitoring are reviewed and the appendix includes middleware resources and new modeling standards. The scope includes traditional middleware

and also next-generation techniques that serve to glue disparate systems in the ever-expanding world of distributed network systems. Provided with concepts, principles, and alternatives discussed in The Complete Book of Middleware, systems architects, systems analysts, systems designers, systems developers, and programmers, can proceed with greater confidence in designing complex enterprise systems. The book provides a comprehensive coverage of the widely accepted desiderata of component-based software development, as well as the foundations that these desiderata necessitate. Its unique focus is on component models, the

cornerstone of component-based software development. In addition, it presents and analyses existing approaches according to these desiderata. This compendium is an indispensable textbook for an advance undergraduate or postgraduate course unit. Researchers will also find this volume an essential reference material.

**Java Web Services: Up and Running
Applying Theory and Standards to Practice
The Big Ideas Behind Reliable, Scalable, and Maintainable Systems
First European Conference on Technology Enhanced Learning, EC-TEL 2006, Crete, Greece, October 1-4, 2006, Proceedings**

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Fundamental Design Solutions for SOAP/WSDL and RESTful Web Services

Adempiere 3.6 Cookbook

Discover the RESTful technologies, including REST, JSON, XML, JAX-RS web services, SOAP and more, for building today's microservices, big data applications, and web service applications. This book is based on a course the Oracle-based author is teaching for UC Santa Cruz Silicon Valley which covers architecture, design best practices and coding labs. Pro RESTful APIs: Design gives you all the fundamentals from the top down: from the top (architecture) through the middle (design) to the bottom (coding). This book is a must have for any microservices or web

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services developer building applications and services. What You'll Learn Discover the key RESTful APIs, including REST, JSON, XML, JAX, SOAP and more Use these for web services and data exchange, especially in today's big data context Harness XML, JSON, REST, and JAX-RS in examples and case studies Apply best practices to your solutions' architecture Who This Book Is For Experienced web programmers and developers.

Microsoft has changed the technology so customers can now select, evaluate and implement Microsoft Dynamics 365 and other applications for their enterprise. This book will provide insights and relevant information around Dynamics 365 Apps, trial

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experience and implementation of Dynamics 365 for Finance and Operations Apps

The event-centric hybrid cloud integration revolves around applications running based on events or messages. The new event-centric approach to hybrid cloud aims to simplify the task of managing these messages while increasing the overall reliability of the system. Event-centric applications work well in the cloud due to the varying intensity and frequency of events. These fluctuations fit well into a cloud infrastructure that can dynamically scale to fit those needs. An event-centric approach cuts down on communication overhead for an application, thus helping to speed up the development process. IBM®

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Hybrid Integration Services is a set of hybrid cloud capabilities in IBM Bluemix® that allows businesses to create hybrid clouds by connecting their Bluemix environment to on-premises systems at the application programming interface (API), data, or event level. In November 2015, the IBM International Technical Support Organization (ITSO) IBM Redbooks® team published a Redbooks publication that covers hybrid cloud scenarios with Bluemix for API and data integrations, Hybrid Cloud Data and API Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services, SG24-8277, and can be found at the following website: <http://www.redbooks.ibm.com/Redbooks.nsf/RedbookAbstracts/sg248277.html?Open> Hybrid

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Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services, SG24-8281 is a companion book to SG24-8277 and focuses on event-centric hybrid cloud integrations with Bluemix.

This book constitutes the refereed proceedings of the First European Conference on Technology Enhanced Learning, EC-TEL 2006. The book presents 32 revised full papers, 13 revised short papers and 31 poster papers together with 2 keynote talks. Topics addressed include collaborative learning, personalized learning, multimedia content, semantic web, metadata and learning, workplace learning, learning repositories and infrastructures for learning, as well as

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*experience reports, assessment, and
case studies, and more.*

Enterprise JavaBeans 3.0

*Building Business Applications in the
Cloud*

Programming Web Services with SOAP

Web Services

Beginning WSO2 ESB

The Complete Book of Middleware