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The Journal of Commerce  
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Dynamics 365 Application Development  
Microsoft Dynamics CRM 2015 Application Design  
Getting Started with Dynamics 365 Portals.  
.NET Design Patterns  
Inside Microsoft Dynamics AX 2012

## Programming Microsoft Dynamics CRM 4.0

Use the full range of features of Dynamics 365 Portal to develop and implement end user portals to provide your audience an online location to communicate and collaborate. This book guides you through implementation and highlights the best practices for each feature. Author Sanjaya Yapa begins with an introduction to end user portals in Dynamics 365 and takes you through a practical example that explains the features in detail. He then teaches you how the portal security works and best practices involved while configuring security such as local and federated authentication, web roles, and access rules. Helpful illustrations and directives guide you in setting up your portal with Dynamics 365 Customer Engagement (CE), basic customizations, content management, and web forms. You learn how to configure and manage document storage and learn about liquid templates, which is important when implementing custom web experiences for your end users. After reading this book, you will be able to implement a portal with Dynamics 365 CE and incorporate best practices in your enterprise-scale solutions. What You Will Learn Set up Dynamics 365 Portal within your Dynamics 365 instance Get familiar with Portal Management Interface and its features Know the security models and how to choose the best option Use Entity Forms, lists, displaying charts, and customize Portal Refer to practical examples and case studies for developing and implementing advanced liquid templates Who This Book Is For Developers working in a Dynamics 365 CE environment

## **Extending Microsoft Dynamics NAV 2016 Cookbook**

The compilation of best skillset to harness Microsoft Dynamics NAV for Administrators, Consultants, and Developers About This Book Take your skills to the next level with Dynamics NAV by implementing all the latest and advanced features Get a comprehensive coverage of how the NAV system can be implemented and maintained to get the most out of it Get powerful insights into how to integrate Dynamics NAV with third-party tolls and extend its functionality Who This Book Is For This book is ideal for administrators, developers, and consultants who are looking to take their knowledge of Dynamics NAV to new heights. You're expected to have a basic knowledge of Dynamics NAV workflows and C/AL, C/SIDE development. What You Will Learn Installing the NAV system in different environments Implementing the system with the correct setup Maintaining the system to get the best possible performance Tuning up the Dynamics NAV to get better outcomes The Version Control strategy for Dynamics NAV developers Integrating other software and features to remove limitations Understanding your own system better Being able to solve customers' problems with "out-of-the-box" features Reducing customization and additional development time In Detail The book begins by giving you a brief introduction to setting up your NAV environment and shows you how to install and configure it according to your requirements. You will then dive deep into the latest design patterns, network architecture, and topologies. We will show you how you can integrate NAV with the Microsoft platform, and secure your deployment by managing roles and permissions. Moving on, we will explain how to monitor and manage server instances using the Administration tool. We'll discuss how you can take advantage of the expanded extensibility and connectivity capabilities for a tighter integration with the cloud as well as handheld devices. Then, we'll show you how you can make use of the PowerBI capabilities that have been built into Dynamics NAV. By the end of the book, you will be confident in developing and administering a Dynamics NAV implementation that will leverage all of the new features. Style and approach This book takes a straightforward tutorial approach, providing you with step-by-step explanations and simple example-oriented walkthroughs. It is filled with use cases and situations that show you the different pitfalls you might encounter and how to get past them.

## **Briggs**

Indispensable Patterns and Insights for Putting Mashups to Work in Enterprise Environments Using new mashup tools and technologies, enterprise developers can impose their own APIs on everything from Web sites and RSS feeds to Excel and PDF files—transforming a world of content into their own customized informationsource. In Mashup Patterns, Michael Ogrinz applies the concept of software development patterns to mashups, systematically revealing the right ways to build enterprise mashups and providing useful insights to help organizations avoid the mistakes that cause mashups to fail. Drawing on extensive experience building business-critical mashups, Ogrinz offers patterns and realistic guidance for every stage of the mashup development lifecycle and addresses the key issues developers, architects, and managers will face. Each pattern is documented with a practical description, specific use cases, and crucial insights into the stability of mashups built with it. Ogrinz concludes by presenting twelve

start-to-finish case studies demonstrating mashup patterns at work in actual enterprise settings. Coverage includes: Understanding the relationships among mashups, portals, SOA, EAI/EII, and SaaS Exploring core mashup activities such as data management, surveillance, clipping, transformation, enrichment, publication, and promotion Optimizing security, privacy, accessibility, usability, and performance Managing mashup development, from planning and governance through integration, testing, and deployment Enhancing basic mashups with search, language translation, workflow support, and other improvements Performing effective load and regression testing Avoiding “anti-patterns” that cause enterprise mashups to fail Also of interest: The companion book, *Mashups: Strategies for the Modern Enterprise* by J. Jeffrey Hanson (Addison-Wesley), is an indispensable guide to designing, implementing, and debugging an enterprise mashup, offering sample code to illustrate key concepts.

### **Microsoft Dynamics NAV**

Learn, develop, and design applications using the new features in Microsoft Dynamics CRM Key Features Implement business logic using processes, plugins, and client-side scripts with MS Dynamics 365 Develop custom CRM solutions to improve your business applications A comprehensive guide that covers the new features of Microsoft Dynamics 365 and increasingly advanced topics. Book Description Microsoft Dynamics 365 CRM is the most trusted name in enterprise-level customer relationship management. The latest version of Dynamics CRM comes with the important addition of exciting features guaranteed to make your life easier. It comes straight off the shelf with a whole new frontier of updated business rules, process enhancements, SDK methods, and other enhancements. This book will introduce you to the components of the new designer tools, such as SiteMap, App Module, and Visual Designer for Business Processes. Going deeper, this book teaches you how to develop custom SaaS applications leveraging the features of PowerApps available in Dynamics 365. Further, you will learn how to automate business processes using Microsoft Flow, and then we explore Web API, the most important platform update in Dynamics 365 CRM. Here, you'll also learn how to implement Web API in custom applications. You will learn how to write an Azure-aware plugin to design and integrate cloud-aware solutions. The book concludes with configuring services using newly released features such as Editable grids, Data Export Service, LinkedIn Integration, Relationship Insights, and Live Assist. What you will learn Develop apps using the platform-agnostic Web API Leverage Azure Extensions to design cloud-aware applications Learn how to implement CRUD operation Create integrated real-world apps using Microsoft PowerApps and Flow by combining services such as Twitter, Facebook, and SharePoint Configure and use Artificial Intelligence Azure Cognitive Services for Recommendation and Text Analytic services Who this book is for This book targets skilled developers who are looking to build business-solution software and are new to application development in Microsoft Dynamics 365, especially for CRM.

### **Design Patterns**

Customer relationship management, or CRM, is certainly a hot topic in business today. If you have a small or medium-sized business, chances are you're already aware of all it can do for you. But with so many options and so much to think

about, how do you get a CRM system in place with a minimum of hassle? Well, Microsoft Dynamics CRM 4 For Dummies is a great place to start! Written by veteran CRM experts Joel Scott and David Lee, this friendly guide will have you understanding and using Microsoft's CRM solution in a jiffy. Whether you're considering a CRM system for the first time or you've decided to switch from another system to Microsoft Dynamics CRM, this book will make it easy to:

- Maintain and manage all your customer information
- Personalize Microsoft CRM to work for your business
- Set up CRM to support sales, marketing, and customer service
- Use the Outlook client
- Manage territories and business units
- Create and manage activities
- Generate quotes and invoices
- Implement and manage a marketing campaign
- Work with contracts, and much more

Microsoft Dynamics CRM 4 For Dummies is packed with information on the latest version, It will help you get a unified view of your customer information and interactions through integrated sales, marketing, and customer service features. And that, as every business owner knows, is important to improving your bottom line!

### **Programming Collective Intelligence**

Throughout the history of the IT industry, integration has been an important part of most projects. Whether it is integration of transactions, data, or processes, each has challenges and associated patterns and antipatterns. In an age of mobile devices, social networks, and cloud services, and big data analytics, integration is more important than ever, but the scope of the challenge for IT projects has changed. Partner APIs, social networks, physical sensors and devices, all of these and more are important sources of capability or insight. It is no longer sufficient to integrate resources under control of the enterprise, because many important resources are in the ecosystem beyond enterprise boundaries. With this as the basic tenet, we address these questions: What are the current integration patterns that help enterprises become and remain competitive? How do you choose when to use which pattern? What is the topology for a "composable business"? And how do you accelerate the process of implementation through intelligent choice of supporting integration middleware? This IBM® Redbooks® publication guides integration practitioners and architects in choosing integration patterns and technologies.

### **Mastering Microsoft Dynamics CRM 2016**

A software architect's digest of core practices, pragmatically applied Designing effective architecture is your best strategy for managing project complexity—and improving your results. But the principles and practices of software architecting—what the authors call the “science of hard decisions”—have been evolving for cloud, mobile, and other shifts. Now fully revised and updated, this book shares the knowledge and real-world perspectives that enable you to design for success—and deliver more successful solutions. In this fully updated Second Edition, you will:

- Learn how only a deep understanding of domain can lead to appropriate architecture
- Examine domain-driven design in both theory and implementation
- Shift your approach to code first, model later—including multilayer architecture
- Capture the benefits of prioritizing software maintainability
- See how readability, testability, and extensibility lead to code quality
- Take a user experience (UX) first approach, rather than designing for data
- Review patterns for

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

## **Microsoft Dynamics CRM 4 For Dummies**

A practical guide that helps you progress to using modern integration methods and leverage new cloud capability models Key Features Design critical hybrid integration solutions for your organization Gain in-depth knowledge of how to build cloud-native integration solutions Leverage cognitive services to build smart cloud solutions Book Description With more enterprises adapting cloud-based and API-based solutions, application integration has become more relevant and significant than ever before. Parallely, Serverless Integration has gained popularity, as it helps agile organizations to build integration solutions quickly without having to worry about infrastructure costs. With Microsoft Azure's serverless offerings, such as Logic Apps, Azure Functions, API Management, Azure Event Grid and Service Bus, organizations can build powerful, secure, and scalable integration solutions with ease. The primary objective of this book is to help you to understand various serverless offerings included within Azure Integration Services, taking you through the basics and industry practices and patterns. This book starts by explaining the concepts of services such as Azure Functions, Logic Apps, and Service Bus with hands-on examples and use cases. After getting to grips with the basics, you will be introduced to API Management and building B2B solutions using Logic Apps Enterprise Integration Pack. This book will help readers to understand building hybrid integration solutions and touches upon Microsoft Cognitive Services and leveraging them in modern integration solutions. Industry practices and patterns are brought to light at appropriate opportunities while explaining various concepts. What you will learn Learn about the design principles of Microsoft Azure Serverless Integration Get insights into Azure Functions, Logic Apps, Azure Event Grid and Service Bus Secure and manage your integration endpoints using Azure API Management Build advanced B2B solutions using Logic Apps, Enterprise Integration Pack Monitor integration solutions using tools available on the market Discover design patterns for hybrid integration Who this book is for Serverless Integration Design Patterns with Azure is for you if you are a solution architect or integration professional aiming to build complex cloud solutions for your organization. Developers looking to build next-level hybrid or cloud solutions will also find this book useful. Prior programming knowledge is necessary.

## **Adaptability**

Make the most of your NAV deployment by extending and customizing it with a variety of expert tools About This Book Extend Dynamics in a cost-effective manner by using tools that are ready at your disposal Solve common business problems with the valuable features and flexibility of Dynamics NAV Follow practical and easy-to-grasp examples, illustrations, and coding to make the most out of Dynamics NAV in your organisation Who This Book Is For This book is for Dynamics NAV developers and administrators who have a good knowledge level and understanding of Dynamics NAV application development and administration. What You Will Learn Develop a module in Dynamics NAV using C/AL Build relationships with COM technologies Develop and integrate COM with Dynamics

NAV 2016 Call the framework members from C/AL Develop an event in the .NET framework and see how to subscribe to it using C/AL Automate the deployment into Dynamics NAV Develop Windows Client Control add-Ins Deploy your resource automatically from Visual Studio Install and Configure Windows Client Control add-Ins Integrate Dynamics NAV with Sharepoint In Detail Microsoft Dynamics NAV is an enterprise resource planning (ERP) software suite for organizations. The system offers specialized functionality for manufacturing, distribution, government, retail, and other industries. Its integrated development environment enables customizations with minimal disruption to business processes. The book starts explaining the new features of Dynamics NAV along with how to create and modify a simple module. Moving on, you will learn the importance of thinking beyond the boundaries of C/AL development and the possibilities opened by with it. Next, you will get to know how COM can be used to extend the functionalities of Dynamics NAV. You'll find out how to extend the Dynamics NAV 2016 version using .NET interoperability and will see the steps required to subscribe to .NET events in order to extend Dynamics NAV. Finally, you'll see the cmdlets available to manage extension packages. By the end of the book, you will have the knowledge needed to become more efficient in selecting the extending methods, developing and deploying them to the Dynamics NAV, and practicing the best practices. Style and approach The book follows a practical recipe-based approach focusing on real-world scenarios and giving you all the information you need to build a strong Dynamics NAV implementation.

## **Enterprise Integration Patterns**

This comprehensive guide covers all the essential features of Dynamics CRM so you can build effective applications About This Book Harness the full power of Dynamics CRM 2016 through real-world scenarios Create efficient client-side applications and customized plugins that work seamlessly across mobile and the Web Get to know the best practices from field experience to utilize Dynamics CRM 2016 efficiently Get an in-depth understanding of mobility and tablet options for Dynamics CRM 2016 Who This Book Is For This book is for those with Dynamics CRM knowledge who want to utilize the latest features available with Dynamics CRM 2016 and Update 1. Extensive Dynamics CRM development experience would be beneficial. What You Will Learn Learn to manage the sales, service, and marketing divisions of any organization using entities and other Dynamics CRM 2016 customizations Learn about the XRM framework of Dynamics CRM 2016 and leverage its features Provide an enhanced mobile and tablet experience using the latest features of Dynamics CRM Get an enhanced Dynamics CRM analytics experience with Word and Excel templates Develop client-side applications using JavaScript and Web API How to develop plugins and workflows using Dynamics CRM 2016 Solution framework improvements, new field types, and Relevant Search in Dynamics CRM 2016 In Detail Microsoft Dynamics CRM is the most trusted name in enterprise-level customer relationship management. The latest version of Dynamics CRM 2016 comes with some exciting extra features guaranteed to make your life easier with Dynamics CRM. This book provides a comprehensive coverage of Dynamics CRM 2016 and helps you make your tasks much simpler while elevating you to the level of an expert. The book starts with a brief overview of the functional features and then introduces the latest features of Dynamics CRM 2016. You will learn to create Word and Excel templates, using CRM

data that will enable you to provide customized data analysis for your organization. You will understand how to utilize Dynamics CRM as an XRM Framework, gain a deep understanding about client-side scripting in Dynamics CRM, and learn creating client-side applications using JavaScript and Web API. We then introduce visual control frameworks for Dynamics CRM 2016 mobile and tablet applications. Business Process Flows, Business Rules, and their enhancements are introduced. By the end of this book, you will have mastered utilizing Dynamics CRM 2016 features through real-world scenarios. Style and approach This book takes a practical, step-by-step approach, providing real-world case studies that enable readers to leverage the latest and most advanced features of Dynamics CRM.

## **Programming Salesforce Marketing Cloud**

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 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 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, 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, 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 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.

## **Business Web Strategy: Design, Alignment, and Application**

Learn how to write automated tests for Dynamics 365 Business Central and see

how to implement it in your daily work Key Features Leverage automated testing to advance over traditional manual testing methods Write, design, and implement automated tests Explore various testing frameworks and tools compatible with Microsoft Dynamics 365 Business Central Book Description Dynamics 365 Business Central is the new cloud-based SaaS ERP proposition from Microsoft. It's not as simple as it used to be way back when it was called Navigator, Navision Financials, or Microsoft Business Solutions-Navision. Our development practices are becoming more formal, and with this, the call for test automation is pressing on us. This book will teach you to leverage testing tools available with Dynamics 365 Business Central to perform automated testing. We'll begin with a quick introduction to automated testing, followed by an overview of test automation in Dynamics 365 Business Central. Then you'll learn to design and build automated tests and we'll go through some efficient methods to get from requirements to application and testing code. Lastly, you'll learn to incorporate your own and Microsoft tests into your daily development practice. By the end of the book, you'll be able to write your own automated tests for Dynamics 365 Business Central. What you will learn Understand what automated tests are, and when and why to use them Explore the five pillars of the Testability Framework of Business Central Design and write automated tests for Business Central Make use of standard automated tests and their helper libraries Integrate automated tests into your development practice Who this book is for This book is for consultants, testers, developers, and development managers working with Microsoft Dynamics NAV and Business Central. Being a book on automated testing techniques, it also caters to both functional and technical development teams.

### **Microsoft Dynamics CRM 4 Integration Unleashed**

This book introduces concepts to integrate with marketing cloud using API and build custom components in a platform agnostic way, including the following aspects: Marketing Cloud Package Custom Journey Builder Activity API Integration (Server to Server & Web App) Custom Marketing Cloud App Server Side JavaScript These concepts will be applicable to any programming language and platform. After introducing the concepts, we will implement these concepts using APEX programming language within Salesforce sales cloud. Tips, patterns and special considerations will be introduced when using APEX in sales cloud to implement these concepts, for example: how to serve custom activity configuration file; how to expose less REST service and write less APEX class and at the same time achieve right level of encapsulation; how to decode JWT passing from marketing cloud Journey Builder; how to build user interface and allow marketing cloud users without sales cloud account to access; how to display visualforce page inside marketing cloud iframes how to set up the right architecture.

### **Dataquest**

In Microsoft® Dynamics CRM 4 Integration Unleashed , two leading experts present proven techniques, best practices, and example code for going far beyond the out-of-the-box capabilities of Dynamics CRM 4. Using these solutions and sample applications, you will enhance all of your company's relationships-with vendors, distributors, employees, users, affiliates, and customers. Authors Marc J. Wolenik and Rajya Vardhan Bhaiya walk you step by step through integrating

Dynamics CRM with SharePoint, Office Communicator, PerformancePoint, BizTalk, Silverlight, VoIP phone systems, and both Google and MSN mapping tools. They also present a full analysis of the CRM Accelerators and advanced topics and three full chapters on integration using Scribe's state-of-the-art adapters and templates. You'll discover how to extend Dynamics CRM 4 with enterprise dashboards, stronger "deep-dive" data analysis, and much more. Wolenik and Bhaiya even demonstrate how to make custom Dynamics CRM applications available directly to your customers, without compromising security. Use Dynamics CRM 4 as an "xRM" platform for developing custom applications to enhance any type of business relationship Leverage new Azure cloud computing solutions for Microsoft Dynamics CRM Design infrastructure to efficiently run your customized Microsoft Dynamics CRM implementation Extend CRM internally, with plug-ins, source-to-source integration, IFRAME-based custom application integration, and CRM JScript Extend CRM externally, with CRM Accelerators, public Web services, direct SQL interaction, and customer-facing Web sites Implement KPIs and gain deeper business insight by integrating Dynamics CRM 4 with Microsoft Office PerformancePoint Create dashboards and other visual CRM tools with Microsoft Silverlight Develop custom CRM applications with Visual Studio Integrate CRM with Team Foundation Server Use Scribe templates and adapters to streamline data integration and migration On the web: Download all examples and source code presented in this book from [informit.com/title/9780672330544](http://informit.com/title/9780672330544).

## **Microsoft Dynamics CRM 2013 Marketing Automation**

Implementing ERP Systems About This Book Solve common business problems with the valuable features and flexibility of Dynamics NAV Design software that is maintainable outside the ecosystem of their creators Create configuration packages and perform data migration on your own Who This Book Is For This book is for Dynamics NAV partners, developers, consultants, and end users who want to know everything about Dynamics NAV implementations and development. What You Will Learn Create reusable data migration packages Successfully upgrade your installation to the latest version Manage and expand your existing installation with additional functionalities Apply object-oriented practices to C/AL programming Refactor legacy code and avoid anti-patterns Build relationships with COM technologies Clone codes and their application in Dynamics NAV Automate deployment into Dynamics NAV In Detail Microsoft Dynamics NAV is an Enterprise Resource Planning (ERP) application used in all kinds of organizations around the world. It provides a great variety of functionality, out-of-the-box, in different topics such as accounting, sales, purchase processing, logistics, and manufacturing. Microsoft Dynamics NAV also allows companies to grow their applications by customizing solutions to meet specific requirements. This course is a hands-on tutorial on working with a real Dynamics NAV implementation. It begins by providing an insight into the different tools available to migrate data from client legacy systems into Microsoft Dynamics NAV. If you are already live with Microsoft Dynamics NAV, you will learn about upgrades and what to expect from them. We'll also show you how to implement additional or expanding functionalities within your existing Microsoft Dynamics NAV installation, perform data analysis, debug error messages, and implement free third-party add-ons to your existing installation. From here, you will be introduced to integrated development tools to make you a highly productive developer in the NAV environment. The course will serve as a

comprehensive reference guide, complementing NAV's Help files. You will find this course really useful if you want to evaluate Microsoft Dynamics NAV's development capabilities or need to manage NAV-based projects. Additionally, you will also learn about the NAV application structure, the C/SIDE development environment, the C/AL language, the construction and uses of each object type, and how it all fits together. Moving on, you will be guided through the NAV way of solving problems. You will be introduced to patterns and the software NAV architecture and will then build an example application. Then, you will walk through the details of architectural patterns, design patterns, and implementation patterns and will also learn about anti-patterns and handling legacy code. You will learn how to build solutions using patterns. The course offers premium, highly practical content on this recently released version of Dynamics NAV, and includes material from the following Packt books : Implementing Microsoft Dynamics NAV - Third Edition Programming Microsoft Dynamics™ NAV Learning Dynamics NAV Patterns Style and approach This course is for Dynamics NAV partners, developers, consultants, and end users who want to know everything about Dynamics NAV implementations and development.

### **Windows Azure Programming Patterns for Start-ups**

Get answers to common questions about setting up the design environment and building custom solutions with Microsoft Dynamics CRM. Delve into core architecture, tools, and techniques, and learn how to exploit powerful customization features. Authored by industry-leading experts, this book shows how to deliver intelligent CRM solutions that meet the unique challenges and requirements of your business. Discover how to: Set up the development environment Enhance the product's APIs with your own code Execute business logic using plug-ins Build custom workflows that extend native workflow functions Create user-friendly integration with scripts and application extensions Code custom pages optimized for Microsoft Outlook with Offline Access Extend Microsoft Dynamics CRM using ASP.NET Create advanced Windows Workflow Foundation solutions Extend multilingual and multicurrency features Construct a custom security-access solution Get code samples on the Web.

### **Learning Dynamics NAV Patterns**

Build interactive and analytical sales productivity dashboards for Dynamics CRM 2015 with Power BI About This Book Create Dynamics CRM reports using Power BI for Office 365 and Power BI Designer Discover best practices to build and deploy these dashboards to Power BI sites and Dynamics CRM 2015 Learn how to extend dashboard to mobile iPad and Surface Power BI apps Who This Book Is For This book is intended for all Dynamics CRM 2015 users—administrators, managers, business analysts, or report writers who are new to creating dashboards using Power BI and Dynamics CRM. It would be helpful to have a basic knowledge of the Dynamics CRM 2015 platform, but no prior experience is required. What You Will Learn Organize and consolidate Dynamics CRM 2015 datasets Add summaries and visualizations using charts and maps Enhance data clarity with filters, slicers, timelines Improve analysis by joining other data sources Deploy and present the dashboard to Power BI for Office 365 site Use the advanced Q/A functionality with Power BI to query data in the dashboard graphs and charts Connect the

dashboards to Dynamics CRM 2015 Extend functionality with Power BI mobile apps In Detail Dynamics CRM 2015 holds a wealth of information about customers and the sales pipeline, but sometimes leaves users with basic end-user reporting and dashboard options. Power BI is a great new tool for analyzing and presenting data, giving us the ability to dig deeper into the information. With the increased requests for real-time sales analytics, Power BI when connected to Dynamics CRM offers a self-service approach to build, shape, and present data through an easy-to-use interface. The set of features within Power BI will give all users a tool to generate real-time sales productivity reports and dashboards to enhance their sales performance. This book will provide you with the skills you need to learn how to build and present Dynamics CRM 2015 sales dashboards using Power BI. It follows a step-by-step process to build an interactive dashboard by organizing and consolidating datasets, improving the look and feel of graphs, charts, and maps, and enhancing data clarity with filters and slicers. By sequentially working through the steps in each chapter, you will learn how to use the Power BI Q/A functionality to query data in the dashboard, extend the dashboards to the mobile apps for the iPad and Surface, and leverage the pre-built workbook template provided by Microsoft for Dynamic CRM 2015 sales, service, and marketing dashboards. Style and approach A step-by-step approach to building a Power BI driven Dynamics CRM dashboard explained in an easy-to-follow style. Each topic is explained sequentially in the process of creating a dashboard, and detailed explanations of the basic and advanced features of Power BI and Dynamics CRM that appeal to the needs of readers with a wide range of experiences are also included.

## **Programming Microsoft Dynamics 365 Business Central**

Create solutions that are easy to maintain, quick to upgrade, and follow proven concepts and designs About This Book Design software that is maintainable outside the ecosystem of their creators Ensure quality by following patterns that have been proved to work Over two dozen practical Architectural and Design patterns Who This Book Is For Learning Dynamics NAV Patterns is intended for developers, architects, (technical) consultants, and application managers. You may have very little or no knowledge about NAV patterns, but you should be acquainted with programming. What You Will Learn Apply object-oriented practices to C/AL programming Structure your application to avoid merge conflicts Refactor legacy code and avoid anti-patterns Design decision trees to decide when to use which patterns Clone codes and their application in Dynamics NAV Make your application extensible by creating predefined hooks and facades In Detail Microsoft Dynamics NAV is a complete ERP system, which also contains a robust set of development tools to support customization and enhancement. These include an object designer for each of the seven application object types, a business application oriented programming language with .NET interface capability, a compiler, a debugger, and programming testing language support. Learning Dynamics NAV Patterns will guide you through the NAV way of solving problems. This book will first introduce you to patterns and the software architecture of the NAV and then help you to build an example application. Then, it walks you through the details of architectural patterns, design patterns, and implementation patterns. This book will also talk about anti-patterns and handling legacy code. Finally, it teaches you to build solutions using patterns. Proven patterns and best practices will help you create better solutions that are easy to maintain in larger teams across several locations.

It will guide you through combining abstract patterns using easy-to-understand examples and will help you decide which patterns to use in which scenarios. Style and approach This book explains the concepts of patterns, code structuring, and object-oriented concepts in a way that is easy to understand for Dynamics NAV specialists through practical examples.

### **Integration Patterns**

An easy-to-follow guide with step-by-step examples on implementing your marketing plan using Dynamics CRM 2013 and other marketplace solutions such as Click Dimensions and Core Motives. If you are a marketing manager, business analyst, or a CRM functional expert who wants to leverage Microsoft Dynamics CRM 2013 to create effective marketing strategies and run efficient campaigns, this book is for you. The book provides several step-by-step, hands-on examples for beginners to learn marketing concepts, and exercises to create advanced marketing strategies for experts. There are no specific prerequisites but an awareness of basic marketing and CRM concepts will be useful.

### **Mashup Patterns**

Harness the power of Dynamics 365 Operations and discover all you need to implement it About This Book Master all the necessary tools and resources to evaluate Dynamics 365 for Operations, implement it, and proactively maintain it. Troubleshoot your problems effectively with your Dynamics 365 partner Learn about architecture, deployment choices, integration, configuration and data migration, development, testing, reporting and BI, support, upgrading, and more. Who This Book Is For This book is for technology leaders, project managers solution architects, and consultants who are planning to implement, are in the process of implementing, or are currently upgrading to Dynamics 365 for Operations. This book will help you effectively learn and implement Dynamics 365 for Operations. What You Will Learn Learn about Microsoft Dynamics 365, it's offerings, plans and details of Finance and Operations, Enterprise edition Understand the methodology and the tool, architecture, and deployment options Effectively plan and manage configurations and data migration, functional design, and technical design Understand integration frameworks, development concepts, best practices, and recommendations while developing new solutions Learn how to leverage intelligence and analytics through Power BI, machine learning, IOT, and Cortana intelligence Master testing, training, going live, upgrading, and how to get support during and after the implementation In Detail Microsoft Dynamics 365 for Finance and Operations, Enterprise edition, is a modern, cloud-first, mobile-first, ERP solution suitable for medium and large enterprise customers. This book will guide you through the entire life cycle of a implementation, helping you avoid common pitfalls while increasing your efficiency and effectiveness at every stage of the project. Starting with the foundations, the book introduces the Microsoft Dynamics 365 offerings, plans, and products. You will be taken through the various methodologies, architectures, and deployments so you can select, implement, and maintain Microsoft Dynamics 365 for Finance and Operations, Enterprise edition. You will delve in-depth into the various phases of implementation: project management, analysis, configuration, data migration, design, development, using Power BI, machine learning, Cortana analytics for intelligence, testing, training,

and finally deployment, support cycles, and upgrading. This book focuses on providing you with information about the product and the various concepts and tools, along with real-life examples from the field and guidance that will empower you to execute and implement Dynamics 365 for Finance and Operations, Enterprise edition. Style and approach This book is a step-by-step guide focusing on implementing Dynamics 365 Operations solutions for your organization.

## **Designing Interfaces**

Want to tap the power behind search rankings, product recommendations, social bookmarking, and online matchmaking? This fascinating book demonstrates how you can build Web 2.0 applications to mine the enormous amount of data created by people on the Internet. With the sophisticated algorithms in this book, you can write smart programs to access interesting datasets from other web sites, collect data from users of your own applications, and analyze and understand the data once you've found it. Programming Collective Intelligence takes you into the world of machine learning and statistics, and explains how to draw conclusions about user experience, marketing, personal tastes, and human behavior in general -- all from information that you and others collect every day. Each algorithm is described clearly and concisely with code that can immediately be used on your web site, blog, Wiki, or specialized application. This book explains: Collaborative filtering techniques that enable online retailers to recommend products or media Methods of clustering to detect groups of similar items in a large dataset Search engine features -- crawlers, indexers, query engines, and the PageRank algorithm Optimization algorithms that search millions of possible solutions to a problem and choose the best one Bayesian filtering, used in spam filters for classifying documents based on word types and other features Using decision trees not only to make predictions, but to model the way decisions are made Predicting numerical values rather than classifications to build price models Support vector machines to match people in online dating sites Non-negative matrix factorization to find the independent features in a dataset Evolving intelligence for problem solving -- how a computer develops its skill by improving its own code the more it plays a game Each chapter includes exercises for extending the algorithms to make them more powerful. Go beyond simple database-backed applications and put the wealth of Internet data to work for you. "Bravo! I cannot think of a better way for a developer to first learn these algorithms and methods, nor can I think of a better way for me (an old AI dog) to reinvigorate my knowledge of the details." -- Dan Russell, Google "Toby's book does a great job of breaking down the complex subject matter of machine-learning algorithms into practical, easy-to-understand examples that can be directly applied to analysis of social interaction across the Web today. If I had this book two years ago, it would have saved precious time going down some fruitless paths." -- Tim Wolters, CTO, Collective Intellect

## **Microsoft Dynamics 365 Extensions Cookbook**

"This book addresses the gap in business Web strategy through a collection of concentrated managerial issues, gathering the latest theoretical frameworks, case studies, and research pertaining to maximizing the power of the Web"--Provided by publisher.

## **Implementing Microsoft Dynamics 365 for Finance and Operations**

Describes what Web 2.0 is, looks at its core patterns and architecture, and offers information on developing applications and software for it.

## **Dependency Injection with Unity**

Microsoft Azure Essentials from Microsoft Press is a series of free ebooks designed to help you advance your technical skills with Microsoft Azure. The first ebook in the series, Microsoft Azure Essentials: Fundamentals of Azure, introduces developers and IT professionals to the wide range of capabilities in Azure. The authors - both Microsoft MVPs in Azure - present both conceptual and how-to content for key areas, including: Azure Websites and Azure Cloud Services Azure Virtual Machines Azure Storage Azure Virtual Networks Databases Azure Active Directory Management tools Business scenarios Watch Microsoft Press's blog and Twitter (@MicrosoftPress) to learn about other free ebooks in the "Microsoft Azure Essentials" series.

## **Mastering Microsoft Dynamics NAV 2016**

Provides information on designing easy-to-use interfaces.

## **Using Microsoft Dynamics 365 for Finance and Operations**

Microsoft Dynamics CRM has a robust API that includes web services and an extensive SDK. As you develop CRM Plugins and custom integrations, you will find that there are many complexities and challenges associated with successfully interacting with this API. In order to ensure that you have all of the tools necessary to achieve success with CRM development, Microsoft Dynamics CRM 2011 API Development presents the essential aspects of API development including plugin development and registration. In addition to Plugins, you will work through building out several integrations that work with both the SDK and the Web Service layer. You will also build a C# application that creates records within CRM using the API, work with Scribe Online for integration and migration, design reports that read data from CRM using FetchXML, and interact with the OData REST service using JScript. Once you've worked through the various topics presented, you will find that you will have the advanced skills required for working with CRM 2011 Online and On Premises. Foreword by Ismail Nalwala, Principal, IOTAP.

## **Web 2.0 Architectures**

Explore the fundamentals of Dynamics 365 Business Central and the Visual Studio Code development environment with the help of useful examples and case studies  
Key Features Tailor your applications to best suit the needs of your business  
Explore the latest features of Business Central with examples curated by industry experts Integrate Business Central features in your applications with this comprehensive guide  
Book Description Microsoft Dynamics 365 Business Central is a full ERP business solution suite with a robust set of development tools to support

customization and enhancement. These tools can be used to tailor Business Central's in-built applications to support complete management functions for finance, supply chain, manufacturing, and operations. Using a case study approach, this book will introduce you to Dynamics 365 Business Central and Visual Studio Code development tools to help you become a productive Business Central developer. You'll also learn how to evaluate a product's development capabilities and manage Business Central-based development and implementation. You'll explore application structure, the construction of and uses for each object type, and how it all fits together to build apps that meet special business requirements. By the end of this book, you'll understand how to design and develop high-quality software using the Visual Studio Code development environment, the AL language paired with the improved editor, patterns, and features. What you will learn Programming using the AL language in the Visual Studio Code development environment Explore functional design and development using AL How to build interactive pages and learn how to extract data for users How to use best practices to design and develop modifications for new functionality integrated with the standard Business Central software Become familiar with deploying the broad range of components available in a Business Central system Create robust, viable systems to address specific business requirements Who this book is for If you want to learn about Dynamics 365 Business Central's powerful and extensive built-in development capabilities, this is the book for you. ERP consultants and managers of Business Central development will also find this book helpful. Although you aren't expected to have worked with Dynamics Business Central, basic understanding of programming and familiarity with business application software will help you understand the concepts covered in this book.

### **Automated Testing in Microsoft Dynamics 365 Business Central**

This book provides precise descriptions and instructions which enable users, students and consultants to understand Microsoft Dynamics 365 for Finance and Operations rapidly. Microsoft offers Dynamics 365 as its premium ERP solution, supporting large and mid-sized organizations with a complete business management solution which is easy to use. Going through a simple but comprehensive case study, this book provides the required knowledge to handle all basic business processes in Microsoft Dynamics 365 for Finance and Operations. Exercises are there to train the processes and functionality, also making this book a good choice for self-study.

### **Integration Throughout and Beyond the Enterprise**

Would you like to use a consistent visual notation for drawing integration solutions? "Look inside the front cover." Do you want to harness the power of asynchronous systems without getting caught in the pitfalls? "See "Thinking Asynchronously" in the Introduction." Do you want to know which style of application integration is best for your purposes? "See Chapter 2, Integration Styles." Do you want to learn techniques for processing messages concurrently? "See Chapter 10, Competing Consumers and Message Dispatcher." Do you want to learn how you can track asynchronous messages as they flow across distributed systems? "See Chapter 11, Message History and Message Store." Do you want to

understand how a system designed using integration patterns can be implemented using Java Web services, .NET message queuing, and a TIBCO-based publish-subscribe architecture? "See Chapter 9, Interlude: Composed Messaging." Utilizing years of practical experience, seasoned experts Gregor Hohpe and Bobby Woolf show how asynchronous messaging has proven to be the best strategy for enterprise integration success. However, building and deploying messaging solutions presents a number of problems for developers. "Enterprise Integration Patterns" provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise. The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold. This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book. 0321200683B09122003

### **Microsoft Azure Essentials - Fundamentals of Azure**

Adaptability is the key human trait. The ability to adapt faster and smarter than the situation is what makes the powerful difference between adapting to cope and adapting to win. Our history is a story of adaptation and change. And in this time of brutal competition and economic uncertainty, it has never been more important to understand how to adapt successfully. In a series of powerful rules, Max McKeown explores how to increase the adaptability of you and your organization to create winning positions. Fascinating real-world examples from business, government, the military and sport bring the rules of adaptability to life - from the world's most innovative corporations to street-level creativity emerging from the slums. Adaptability is a powerful, practical and inspirational guide to success in uncertain times.

### **Microsoft .NET - Architecting Applications for the Enterprise**

### **Serverless Integration Design Patterns with Azure**

Over the years software systems have evolutionarily become more and more complex. One of the techniques for dealing with this inherent complexity of software systems is dependency injection - a design pattern that allows the removal of hard-coded dependencies and makes it possible to assemble a service by changing dependencies easily, whether at run-time or compile-time. It promotes code reuse and loosely-coupled design which leads to more easily maintainable

and flexible code. The guide you are holding in your hands is a primer on using dependency injection with Unity - a lightweight extensible dependency injection container built by the Microsoft patterns & practices team. It covers various styles of dependency injection and also additional capabilities of Unity container, such as object lifetime management, interception, and registration by convention. It also discusses the advanced topics of enhancing Unity with your custom extensions. The guide contains plenty of trade-off discussions and tips and tricks for managing your application cross-cutting concerns and making the most out of both dependency injection and Unity. These are accompanied by a real world example that will help you master the techniques. Keep in mind that Unity can be used in a wide range of application types such as desktop, web, services, and cloud. We encourage you to experiment with the sample code and think beyond the scenarios discussed in the guide. In addition, the guide includes the Tales from the Trenches - a collection of case studies that offer a different perspective through the eyes of developers working on the real world projects and sharing their experiences. These chapters make clear the range of scenarios in which you can use Unity, and also highlight its ease of use and flexibility. Whether you are a seasoned developer or just starting your development journey, we hope this guide will be worth your time studying it. We hope you discover that Unity container adds significant benefits to your applications and helps you to achieve the goals of maintainability, testability, flexibility, and extensibility in your own projects.

### **Building Dynamics CRM 2015 Dashboards with Power BI**

Capturing a wealth of experience about the design of object-oriented software, four top-notch designers present a catalog of simple and succinct solutions to commonly occurring design problems. Previously undocumented, these 23 patterns allow designers to create more flexible, elegant, and ultimately reusable designs without having to rediscover the design solutions themselves. The authors begin by describing what patterns are and how they can help you design object-oriented software. They then go on to systematically name, explain, evaluate, and catalog recurring designs in object-oriented systems. With Design Patterns as your guide, you will learn how these important patterns fit into the software development process, and how you can leverage them to solve your own design problems most efficiently. Each pattern describes the circumstances in which it is applicable, when it can be applied in view of other design constraints, and the consequences and trade-offs of using the pattern within a larger design. All patterns are compiled from real systems and are based on real-world examples. Each pattern also includes code that demonstrates how it may be implemented in object-oriented programming languages like C++ or Smalltalk.

### **The Journal of Commerce**

" Contains a catalog of 18 integration patterns, including implementations that use BizTalk Server 2004, Host Integration Server 2004, ASP.NET, Visual Studio .NET, Visio 2003 and the .Net Framework"--Preface.

### **Microsoft Dynamics CRM API Development for Online and On-Premise Environments**

This book follows a step-by-step approach with clear transparent instructions, screenshots and code samples. This book is intended for Microsoft .NET developers who want to leverage the power of cloud and build a brand new service from scratch; it assumes a basic understanding of the .NET framework and C#.

## **Dynamics 365 Application Development**

Master professional-level business application designs using Microsoft Dynamics CRM 2015 and its xRM features About This Book Implement business logic using processes, plugins, and client-side scripts with MS CRM 2015 Develop custom xRM solutions to improve your business applications A comprehensive guide with a solution-based approach that covers the new features of Microsoft Dynamics CRM 2015 and increasingly advanced topics Who This Book Is For This book targets skilled developers who are looking to build business-solution software and are new to application development in Microsoft Dynamics CRM. What You Will Learn Customize your Microsoft Dynamics CRM 2015 business application with ease Get to know about the new features and enhancements of Microsoft Dynamics CRM 2015 Implement process automation using workflows, business rules, and business process flows Carry out client-side logic and consume CRM web services using client-side code Work across all your iOS platforms or devices with the integration feature of SDK Develop and deploy plug-ins and learn how to troubleshoot issues Know the how-to's of mobile enhancements with Microsoft Dynamics In Detail Businesses can have their developers build complete apps or plug-ins and interfaces to suit their business needs. With the application of MS CRM, administrators can alter the content, layout, and business logic for each business use case. Businesses can choose to run Dynamics CRM on their own internal server or to link to web-hosted installations. This book is an enhanced guide that covers all the new features released with Microsoft Dynamics CRM 2015. Coming straight off the shelf with a whole new frontier of updated business rules, process enhancements, SDK methods, and other enhancements, this book is a complete guide for all your Dynamics CRM questions. Starting off, this book will introduce you to the deployment options such as online and on-premise, and the software and hardware requirements as CRM customization. It will also teach you how to develop a sample application. Going deeper, this book teaches you about the new enhancements in Microsoft Dynamics CRM 2015 such as business process, new client-side scripting, mobile application, and actions enhancements. You will quickly get up and running with plugin development and project tracking concepts with the help of sample applications. The book concludes with how Microsoft Dynamics CRM extends its mobile capabilities and bring more feature-rich experience to the app users. Style and approach A solution-based guide to learn Microsoft Dynamics CRM's newest features, and customize and extend CRM's capabilities. Each topic is presented with comprehensive examples for creating custom solutions.

## **Microsoft Dynamics CRM 2015 Application Design**

Dig into the architecture and internals of Microsoft Dynamics AX 2012—with firsthand insights from the team that designed and developed it. Targeted for solution developers and system implementers, this guide focuses on programming and customization capabilities—including key architectural principles, the

application model, framework, and tools. Topics include: Architecture and development environment, including MorphX Microsoft Visual Studio tools for Microsoft Dynamics AX X++ programming language Microsoft SQL Server reporting and analytics Models Core development concepts Extending and customizing Microsoft Dynamics AX Performance and security considerations Workflow Best practices Note: Readers should have working knowledge of SQL and OOP concepts to gain max benefit from this book.

### **Getting Started with Dynamics 365 Portals**

Explore the world of .NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of .NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased. This fast-paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with .NET development who would like to take their skills to the next level and be in the driver's seat when it comes to modern development techniques. Basic object-oriented C# programming experience and an elementary familiarity with the .NET framework library is required. What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C#/.NET Use GoF and other patterns in real-life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object/functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C# LINQ constructs Be able to implement concurrent/parallel programming techniques using idioms under .NET Avoiding pitfalls when creating compositional, readable, and maintainable code using imperative, functional, and reactive code. In Detail Knowing about design patterns enables developers to improve their code base, promoting code reuse and making their design more robust. This book focuses on the practical aspects of programming in .NET. You will learn about some of the relevant design patterns (and their application) that are most widely used. We start with classic object-oriented programming (OOP) techniques, evaluate parallel programming and concurrency models, enhance implementations by mixing OOP and functional programming, and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code. Throughout this book, we'll show you how to deal with architecture/design techniques, GoF patterns, relevant patterns from other catalogs, functional programming, and reactive programming techniques. After reading this book, you will be able to convincingly leverage these design patterns (factory pattern, builder pattern, prototype pattern, adapter pattern, facade pattern, decorator pattern, observer pattern and so on) for your programs. You will also be able to write fluid functional code in .NET that would leverage concurrency and parallelism! Style and approach This tutorial-based book takes a step-by-step approach. It covers the major patterns and explains them in a detailed manner along with code examples.

### **.NET Design Patterns**

How do you start? How should you build a plan for cloud migration for your entire portfolio? How will your organization be affected by these changes? This book,

based on real-world cloud experiences by enterprise IT teams, seeks to provide the answers to these questions. Here, you'll see what makes the cloud so compelling to enterprises; with which applications you should start your cloud journey; how your organization will change, and how skill sets will evolve; how to measure progress; how to think about security, compliance, and business buy-in; and how to exploit the ever-growing feature set that the cloud offers to gain strategic and competitive advantage.

## **Inside Microsoft Dynamics AX 2012**

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