

# Microsoft Dynamics Nav 2009 Programming Cookbook Matt Traxinger

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*Programming Microsoft Dynamics NAV 2009* Packt Pub Limited

Discover tips and trick for Dynamics NAV report building About This Book Create and customize reports in Dynamics NAV 2015 using RDLC, Word, Power BI, and Reporting Services Work with different elements in the toolbox such as tablix, which can be used as a List, Table, or Matrix and understand the differences between them and when to use which This book is a pragmatic guide with clear instructions and real-world examples to teach you about the reporting capabilities of Dynamics NAV 2015 Who This Book Is For If you are a consultant, developer, customer, user, or just interested in the reporting capabilities of Dynamics NAV, then this book is for you. Basic knowledge of Dynamics NAV will be helpful. What You Will Learn Understand why reports are designed in a specific way and then apply this knowledge to your advantage Develop document reports using different techniques Apply filtering and sorting, and create groups Use RDLC to visualize information Visualize information, KPIs, and trends using expressions, Gauges, Charts, Data bars, Indicators, and Spark lines Create and optimize your dataset for RDLC and for Word layouts Use Power BI with Dynamics NAV to bring your data to life Build Reporting Services reports on top of Dynamics NAV In Detail Microsoft Dynamics NAV is a multi-lingual, multi-currency business management solution that organizations use to manage their accounts, supply chain, sales, payroll, and HR. It is an ERP tool for organizations that is fast to implement, easy to configure, and simple to use. It is widely used because simplicity is a part of its development, product design, usability, and implementation. This book will help you to master, analyze, and deliver the most challenging reporting requirements in Dynamics NAV 2015. The book starts by explaining report development and its different phases such as data model, layout, and testing you go through. It introduces you to RDLC and the different controls in the toolbox, such as the Tablix, in its many forms. You will learn to use expressions to make your layout dynamic and to overcome typical problems. Moving on, the book will teach you to visualize data and be able to understand and read a report as it is intended. You will also learn to use Microsoft Word to create a layout for a report. With Power BI and Power Pivot, Power View, and Power Map, you will learn how easy and powerful it is to bring your data to life, so you can spot trends and perform in depth analysis of your business. Reporting Services is also explained as another way that you can apply the knowledge you have about RDLC to build RDL layouts outside of Dynamics NAV. By the end, you will create different types of charts so you can visualize key performance indicators inside the Dynamics NAV application. Style and approach This book is an essential guide in to understanding what is involved in creating reports in Dynamics NAV and its reporting capabilities.

*Learning Dynamics NAV Patterns* Packt Publishing Ltd

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.

*Microsoft Dynamics Nav 2009 Application Design* Packt Publishing Ltd

Precise descriptions and instructions enable users, IT officers and consultants to easily understand Microsoft Dynamics AX. Microsoft offers Dynamics AX as its premium ERP solution to supply midsized and larger organizations with a complete business management solution, which is easy to use. Going through a simple but comprehensive case study - the sample company 'Anso Tenchnologies Inc.' - this book provides the required knowledge to handle all basic business processes in Dynamics AX. Exercises allow to train the processes and functionality described, which makes this book also a good choice for self-study.

*Using Microsoft Dynamics AX 2009* Packt Publishing Ltd

Web Programming with HTML5, CSS, and JavaScript is written for the undergraduate, client-side web programming course. It covers the three client-side technologies (HTML5, CSS, and JavaScript) in depth, with no dependence on server-side technologies.

*Microsoft Dynamics NAV 2009* Packt Publishing Ltd

This book is step-by-step guide to implementing Dynamics NAV from start to finish. If you are new to Dynamics NAV or have been implementing it for a while, the book will lead you from start to finish, teaching you how to deploy valuable implementations. This book is also for Dynamics NAV implementation consultants, project managers, and developers that want to get a deep view of what Dynamics NAV 2013 can offer, as well as NAV developers that want to learn more about the whole application. IT managers considering the implementation of Dynamics NAV 2013 in their organizations will fully understand what to expect and how to accomplish it upon reading this book *Extending Microsoft Dynamics NAV 2016 Cookbook* Packt Publishing Ltd

This book doesn't assume any prior experience with Dynamics NAV reporting. It is designed as an

easy to follow guide, where each chapter builds upon the previous one, but can also be read completely separately. Basically this book is for everyone who is using Microsoft Dynamics NAV or has an interest on the reporting capabilities of NAV 2009. The book does not have major prerequisites, although it is mainly focused on Dynamics NAV 2009, RDLC and Business Intelligence. Whether you are a Dynamics NAV consultant, developer, customer, project manager, or just interested in the reporting capabilities of Dynamics NAV, this book can provide you with information from a helicopter view down to the smallest details, tips and tricks, and workarounds. Empowered with the information in this book you should be able to master, analyse and deliver the most challenging reporting requirements in Dynamics NAV.

*Programming Microsoft Dynamics™ NAV 2015* Packt Pub Limited

Implement Business Central and explore methods to upgrade to NAV 2018 Key Features Learn the key roles of Dynamics NAV partner and the roles within your customer's organization Create configuration packages and perform data migration Explore Microsoft Dynamics 365 Business Central to use Dynamics NAV 2018 functionalities in the Cloud Book Description Microsoft Dynamics Business Central is a full business solution suite and a complete ERP solution, which contains a robust set of development tools; these tools can help you to gain control over your business and can simplify supply chains, manufacturing, and operations. Implementing Microsoft Dynamics 365 Business Central On-Premise covers the latest features of Dynamics Business Central and NAV from the end users' and developers' perspectives. It also provides an insight into different tools available for implementation, whether it's a new installation or migrating from the previous version of Dynamics NAV. This book will take you from an introduction to Dynamics NAV 2018 through to exploring all the techniques related to implementation and migration. You will also learn to expand functionalities within your existing Microsoft Dynamics NAV installation, perform data analysis, and implement free third-party add-ons to your existing installation. As you progress through the book, you will learn to work with third-party add-on tools. In the concluding chapters, you will explore Dynamics 365 Business Central, the new Cloud solution based on the Microsoft NAV platform, and techniques for using Docker and Sandbox to develop applications. By the end of the book, you will have gained a deep understanding of the key components for successful Dynamics NAV implementation for an organization. What you will learn Explore new features introduced in Microsoft Dynamics NAV 2018 Migrate to Microsoft Dynamics NAV 2018 from previous versions Learn abstract techniques for data analysis, reporting, and debugging Install, configure, and use additional tools for business intelligence, document management, and reporting Discover Dynamics 365 Business Central and several other Microsoft services Utilize different tools to develop applications for Business Central Who this book is for Implementing Microsoft Dynamics 365 Business Central On-Premise is for Dynamics NAV partners and end users who want to know everything about Dynamics NAV implementation. This book is for you if you want to be a project manager or get involved with Dynamics NAV, but do not have the expertise to write code yourself. This book can also help you to understand the need to move to Business Central and its advantages.

*Programming Microsoft Dynamics NAV - Fifth Edition* Jones & Bartlett Learning

Build better business applications with Microsoft Dynamics NAV 2009 with this book and eBook.

*Using Microsoft Dynamics 365 for Finance and Operations* Packt Publishing Ltd

Fast-paced and to-the-point, this book takes you through the important topics of Microsoft Dynamics NAV with clear explanations and practical example code. The book's selection of topics is driven by what the working developer needs to know in order to become productive as quickly as possible. The business applications software designer/developer who: Wants to become productive in NAV C/SIDE C/AL development as quickly as possible Understands business applications and the associated software Has significant programming experience Has access to NAV including at least the Designer granules, preferably a full development license and a standard Cronus demo database Is willing to do the exercises to get hands-on experience The Reseller manager or executive who wants a concise, in depth view of NAVs development environment and tool set The technically knowledgeable manager or executive of a firm using NAV that is about to embark on a significant NAV enhancement project The technically knowledgeable manager or executive of a firm considering purchase of NAV as a highly customizable business applications platform The reader of this book: Does not need to be expert in object-oriented programming Does not need to have previous experience with NAV

*Microsoft Dynamics NAV 2009 Application Design* Packt Publishing Ltd

Summary SPA Design and Architecture teaches you the design and development skills you need to create SPAs. Includes an overview of MV\* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology The next step in the development of web-based software, single-page web applications deliver the sleekness and fluidity of a native desktop application in a browser. If you're ready to make the leap from traditional web applications to SPAs, but don't know where to begin, this book will get you going. About the Book SPA Design and Architecture teaches you the design and development skills you need to create SPAs. You'll start with an introduction to the SPA model and see how it builds on the standard approach using linked pages. The author guides you through the practical issues of building an SPA, including an overview of MV\* frameworks, unit testing, routing, layout management, data access, pub/sub, and client-side task automation. This book is full of easy-to-follow examples you can apply to the library or framework of your choice. What's Inside Working with modular JavaScript Understanding MV\* frameworks Layout management Client-side task automation Testing SPAs About the Reader This book assumes you are a web developer and know JavaScript basics. About the Author Emmitt Scott is a senior software engineer and architect with experience building large-scale, web-based applications. Table of Contents PART 1 THE BASICS What is a single-page application? The role of MV\* frameworks Modular JavaScript PART 2 CORE CONCEPTS Navigating the single page View composition and layout Inter-module interaction Communicating with the server Unit testing Client-side task automation APPENDIXES Employee directory example walk-through Review of the XMLHttpRequest API Chapter 7 server-side setup and summary Installing Node.js and Gulp.js

*Modern development techniques for Dynamics 365 Business Central* Packt Publishing Ltd

A quick book and eBook guide to installing, configuring, deploying, and administering Dynamics NAV with ease

*Microsoft Dynamics NAV* Packt Publishing Ltd



Fully updated for ASP.NET MVC 3. Delve into the features, principles, and pillars of the ASP.NET MVC framework—deftly guided by web development luminary Dino Esposito. ASP.NET MVC forces developers to think in terms of distinct components—Model, View, Controller—that make it easier to manage application complexity, while allowing strict control over the markup. Plunge into the framework's internal mechanics and gain perspectives on how to use this programming model versus Web Forms, and begin building your own MVC-based applications quickly.

**Programming Microsoft Dynamics NAV 2009** Packt Pub Limited

Beginning Python Games Development, Second Edition teaches you how to create compelling games using Python and the PyGame games development library. It will teach you how to create visuals, do event handling, create 3D games, add media elements, and integrate OpenGL into your Python game. In this update to the first ever book to cover the popular open source PyGame games development library, you'll stand to gain valuable technical insights and follow along with the creation of a real-world, freely downloadable video game. Written by industry veterans and Python experts Will McGugan and Harrison Kinsley, this is a comprehensive, practical introduction to games development in Python. You can also capitalize upon numerous tips and tricks the authors have accumulated over their careers creating games for some of the world's largest game developers.

**SPA Design and Architecture** Packt Publishing Ltd

Customize your NAV applications About This Book Gain from the insights and methods of industry-leading experts and tailor your applications to best suit the needs of your business Learn through the detailed explanations and useful examples that are presented in a logical, step-by-step manner This comprehensive guide is written with the goals of being used as a classroom text, a self-study text, and as a handy in-depth reference guide Who This Book Is For This book will appeal to all those who want to learn about NAV's powerful and extensive built-in development capabilities. It assumes that you understand programming and are familiar with business application software, although you aren't expected to have worked with NAV before. ERP consultants and managers of NAV development will also find the book helpful. What You Will Learn Productively and effectively use the development tools that are built into Dynamics NAV Understand the strengths of NAV's development tools and how they can be applied to address functional business requirements Introduction to programming using the C/AL language in the C/SIDE Development Environment Explore functional design and development using C/AL Leverage advanced NAV development features and tools Get to know the best practices to design and develop modifications of new functionality integrated with the standard NAV software In Detail Microsoft Dynamics NAV is a full business solution suite, and a complete ERP solution, which contains a robust set of development tools to support customization and enhancement. These tools help in greater control over financials and can simplify supply chain, manufacturing, and operations. This book will take you from an introduction to Dynamics NAV and its integrated development tools to being a productive developer in the Dynamics NAV Development Environment. You will find this book very useful if you want to evaluate the product's development capabilities or need to manage Dynamics NAV based projects. It will teach you about the NAV application structure, the C/SIDE development environment, the C/AL language paired with the improved editor, the construction and uses of each object type, and how it all fits together to build universal applications. With this new edition, you will be able to understand how to design and develop using Patterns and new features such as Extensions and Events. Style and approach This book is filled with examples and will serve as a comprehensive reference guide, complementing NAV's Help files.

*Understanding single-page web applications* Simon and Schuster

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.

**Build customized business applications with the latest tools in Dynamics 365 Business Central, 6th Edition** Packt Publishing Ltd

Mastering Microsoft Dynamics 365 Business Central is a comprehensive solution which will help you in managing end-to-end business requirements with its features to connect to your financials, sales, service, and operations to streamline business processes. This book will help you in advancing with developing the solutions for your customers ...

**Inside Microsoft Dynamics AX 2012 R3** "O'Reilly Media, Inc."

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.

**Web Programming with HTML5, CSS, and JavaScript** Pearson Education

This book is an in-depth, practical tutorial demonstrating both the essential basic concepts and the more advanced concepts of financial management in Dynamics NAV. This book is for financiers and accountants who are using Dynamics NAV as their ERP and financial management system. It will also help Dynamics NAV consultants and project managers of organizations who use the system for their daily work. Additionally, the book helps Dynamics NAV developers to understand the use of standard applications in organizations and helps them to develop improved features that are better integrated with existing ones.

**A Comprehensive Guide to NAV 2013 Development and Design** Packt Publishing Ltd

Create real-world enterprise solutions with NAV, Cloud, and the Microsoft stack About This Book Integrate NAV with various offerings of the Microsoft stack to create enterprise-ready and service-oriented solutions Use Power BI and Universal Windows Platform for effective data analysis and real-time tracking with NAV Discover the services offered by Microsoft Azure and implement them in different industries using real-world case scenarios Who This Book Is For This book is for NAV developers and solution architects who need to implement real-world enterprise solutions based on Microsoft Dynamics NAV. Knowledge of the NAV programming language (C/AL) and C# language is recommended. Knowledge of ASP.NET and Visual Studio development would help, but is not necessary. What You Will Learn Configure NAV Web Services and create external applications with Visual Studio, .NET, and .NET Core Solve technical architectural problems by implementing enterprise solutions with NAV Develop applications and solutions with Microsoft Dynamics NAV and the Microsoft technology stack Create a Power BI dashboard for rich reporting and NAV data analysis Find out how to transmit your device location from a UWP application to NAV in order to implement a distributed solution for managing couriers in a sales company Make the most of Microsoft Azure and its services Create enterprise solutions with NAV by using Azure App Service Use Azure Service Bus for managing distributed NAV applications In Detail Implementing Microsoft Dynamics NAV in the real world often requires you to integrate the ERP with external applications or solve complex architectural tasks in order to have a final successful project. This book will show you how to extend a Microsoft Dynamics NAV installation to the enterprise world in a practical way. The book starts with an introduction to Microsoft Dynamics NAV architecture and then moves on to advanced topics related to implementing real-world solutions based on NAV and external applications. You will learn how an enterprise distributed architecture with NAV at the core can be implemented. Through a series of real-world cases on every topic and every industry (sales, retail, manufacturing, distribution, healthcare, and so on), you'll see step by step how to efficiently solve a technical problem. These common problems encountered in a NAV implementation will be solved using the entire technology stack that Microsoft offers. By the end of the book, you will have the knowledge to efficiently solve certain scenarios, you will know which is the best solution architecture to propose to a customer and how to implement it. Style and approach Taking you through a variety of real-world use cases, the book will show you step by step all you need to know to tackle these problems and give you creative ideas to implement in related problems you might come across in the real world.

**Mastering Microsoft Dynamics 365 Business Central** Springer

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.