



Professional Expertise Distilled

Microsoft Dynamics NAV 2009 Application Design

Design and extend complete applications using Microsoft
Dynamics NAV 2009

*Foreword by Michael Nielsen,
Director of Engineering, Dynamics NAV, Microsoft Development Center*

Marije Brummel

[PACKT] enterprise⁸⁸
PUBLISHING professional expertise distilled

Microsoft Dynamics Nav 2009 Application Design

Brummel Mark

Alex Chow



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Microsoft Dynamics NAV 2009 Application Design Marije Brummel, Michael Nielsen, 2010-06-11 With this book you will quickly learn to develop complete Dynamics NAV applications and gain the versatility to design for different enterprise needs and industry sectors With a user friendly fully focused approach it is an indispensable tutorial Key Features Learn how Dynamics NAV ERP suite is set up and customized for various industries Integrate numerous parts of a company's operations including financial reporting sales order management inventory and forecasting Develop complete applications and not just skeleton systems Covers the design and implementation of two new add on services The Squash application and the Storage Logistics application Also usable for previous versions such as 3 x 4 0 and 5 0 Easy to read style packed with hard won practical advice Real world examples with step by step explanations Book Description Dynamics NAV 2009 is an Enterprise Resource Planning ERP software product from Microsoft that can be used for variety of business needs It is part of the Microsoft Dynamics family and intended to assist with finance manufacturing Customer Relationship Management supply chains analytics and electronic commerce for small and medium sized enterprises This book is a focused tutorial on Microsoft Dynamics NAV application development so you can develop complete applications and not just application outlines It will show NAV developers how to create different kinds of applications Different kinds of application are vital in different industries like fashion automobile retail books education and other industries It starts off by introducing the supply chain that you will be using throughout the book You will implement the Microsoft Dynamics NAV ERP suite and learn how it is set up and customized for various industries You will be able to customize Dynamics NAV to suit the different aspects of a business such as Financial Management Relationship Management Production Jobs Trade Storage Logistics and so on The book will take you through these Microsoft designed application features and show you how to customize and extend them safely Thus you will be able to create a structure of your own in Microsoft Dynamics NAV What you will learn Implement Microsoft Dynamics NAV ERP suite with a sample industry application throughout the book Set up Dynamics NAV and customize it for various industries including fashion retail and the automobile industry Get to grips with key Dynamics NAV features such as Inventory Valuation Item Tracking and Reservations Learn about B2B and B2C Interfacing and the fundamentals of Application Design Learn and customize application features designed by Microsoft such as Financial Management CRM Manufacturing Distribution Wholesale and Retail and extend them safely Design your applications to have a good balance between cost of ownership and functionality Analyze operation data based on sales demographics using Dynamics NAV CRM Extend your core applications using interfaces such as Flatfile CSV XMLports ADO EDI standards and web services Who this book is for If you are a NAV consultant and developer or designer of business applications you will benefit most from this book The book assumes that you have a basic understanding of business management systems application development with a working knowledge of Microsoft Dynamics NAV **Programming Microsoft Dynamics**

Nav 2013 David A. Studebaker,2013-01-01 Programming Microsoft Dynamics NAV 2013 **Getting Started with Dynamics NAV 2013 Application Development** Alex Chow,2013-05-23 Presented in an easy to follow step by step tutorial Getting Started with Dynamics NAV 2013 Application Development introduces the reader to the main concepts of developing with Dynamics NAV Getting Started with Dynamics NAV 2013 Application Development is for any user who uses Dynamics NAV as their main business software This is also for any developers who may be familiar with other accounting software and wish to get into developing within the Dynamics NAV field Learning Dynamics Nav Patterns Mark Brummel,2015-09-24 Create solutions that are easy to maintain quick to upgrade and follow proven concepts and designsAbout 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 patternsWho This Book Is ForLearning 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 facadesIn 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 approachThis 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 **Programming Microsoft Dynamics™ NAV 2015** David Studebaker,Christopher Studebaker,2015-07-30 NAV 2015 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 seven application object types a business application oriented programming language with NET interface capability a compiler a debugger and programming testing language support This book is designed to take you from an introduction to the product and its integrated development tools to being a productive developer in the NAV 2015 environment It will serve

as a comprehensive reference guide complementing NAV's Help files. You will find this book really useful if you want to evaluate the product's development capabilities or need to manage NAV 2015 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. Microsoft Dynamics NAV 2009 Steven Renders, 2011-10-03. 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 in 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 2009 David Studebaker, 2009-11-04. Develop and maintain high performance Dynamics NAV applications to meet changing business needs with improved agility and enhanced flexibility using this book and eBook. **Microsoft Dynamics NAV 2009 Application Design** Mark Brummel, 2010. Microsoft Dynamics NAV Alex Chow, Laura Nicolas Lorente, Cristina Nicolas Lorente, Vjekoslav Babic, David Roys, David Studebaker, Christopher Studebaker, Mark Brummel, 2017-03-31. 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 Microsoft Dynamics NAV 2009 Application Design ,2010 This book is a tutorial in an easy to read style It will show Dynamics NAV developers how to create applications of different kinds with sufficient examples throughout If you are a NAV consultant and developer or designer of business applications you will benefit most from this book The book assumes that you have a basic understanding of business management systems and application development with a working knowledge of Microsoft Dynamics NAV **Microsoft Dynamics NAV 2013 Application Design** Marije Brummel,Michael Nielsen,David Studebaker,2014-09-16 From the fundamentals of supply chain to its features and Microsoft NAV ERP suite implementation to use it in different aspect of business function to create your own structure in Microsoft NAV Key FeaturesAssess and overcome various challenges while implementing the Microsoft NAV ERP system in your businessTurn an end to end structure of your own into Microsoft Dynamics NAV with this practical guideCustomize Dynamics NAV to suit the different aspects of a businessBook Description This book is a focused tutorial on Microsoft Dynamics NAV application development to help you develop complete applications and not just application outlines This hands on guide starts off by introducing the supply chain that you will be using throughout the book You will then implement the Microsoft Dynamics NAV ERP suite and learn to set it up and customize it for various industries You will learn how to customize Dynamics NAV to suit the different aspects of a business such as financial management relationship management production jobs trade storage logistics and so on The book will take you through these Microsoft designed application features and show you how to customize and extend them safely Therefore by the end of this book you will be able to create a structure of your own in Microsoft Dynamics NAV What you will learnSet up and customize the Dynamics

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Learning Dynamics NAV Patterns Marije Brummel, Thomas Hejlsberg, 2015-09-24 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

Programming Microsoft Dynamics NAV Marije

Brummel,David A. Studebaker,Christopher D. Studebaker,Luc van Vugt,2017-04-26 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 [Programming Microsoft Dynamics 365 Business Central](#)

Marije Brummel,David Studebaker,Chris Studebaker,2019-04-30 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 FeaturesTailor your applications to best suit the needs of your businessExplore the latest features of Business Central with examples curated by industry expertsIntegrate Business Central features in your applications with this comprehensive guideBook 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

Programming Microsoft Dynamics 365 Business Central Marije Brummel, Natalie Karolak, Christopher D.

Studebaker, David Studebaker, 2024-11-15 Extend Microsoft Business Central with custom functionality using the AL language in Visual Studio Code guided by practical examples expert insights and real world use cases Key Features Work with the new additions to the AL Language Visual Studio Code and Business Central Enhance your AL programming skills through real world examples and best practices curated by industry experts Implement updated best practices for development to build efficient reliable and maintainable extensions Purchase of the print or Kindle book includes a free PDF eBook Book Description Business Central opens a world of endless possibilities for custom business logic and functionality through extensions and customizations For beginners in the AL language navigating the vast landscape can feel overwhelming It's challenging to know where to start and what's essential to learn This updated edition offers a concise and well organized guide featuring hands on exercises to support a successful learning journey You'll get to grips with the basics of Business Central and how to create your first Visual Studio Code project with the AL language As you learn about the table data structure simple and complex data types relationships validation and data flow you'll be able to add and extend tables to your project Progressively you'll uncover the intricacies of user interfaces with pages create advanced Excel report layouts and harness the power of data queries Immersing yourself in the AL language syntax you'll start with variables methods procedures and statements You'll explore advanced topics to create business logic such as FlowFields filtering CRUD methods interactions between object types and different API interfaces that can be created using the AL language By the end of this book you'll be equipped to build fully featured robust extensions and custom capabilities for Business Central What

you will learn Set up your first AL development environment with Visual Studio Code Understand the data structure and flow of Business Central Design build and extend Table Page Report Codeunit Query and XMLport objects in Business Central Develop AL code for business logic and data manipulation in Visual Studio Code Use Excel layouts to report Business Central data Integrate Business Central with external systems using API web services Implement multi language in your own extension Debug and troubleshoot Business Central applications Who this book is for This book is for anyone who wants to learn about Microsoft Dynamics 365 Business Central s powerful and extensive development capabilities ERP consultants and managers of Business Central development will also find this book helpful Although you aren t expected to have previously worked with Microsoft Dynamics Business Central having a basic understanding of programming and familiarity with business applications software will help you understand the concepts covered in this book

Programming Microsoft® Dynamics"!NAV 2009 David Studebaker,2009 Develop and maintain high performance NAV applications to meet changing business needs with improved agility and enhanced flexibility Create modify and maintain smart NAV applications to meet your client s business needs Thoroughly covers the new features of NAV 2009 including Service Pack 1 Focused on development for the three tier environment and the Role Tailored Client For experienced programmers with little or no previous knowledge of NAV development Contains detailed documentation and explanations with useful examples not readily available elsewhere In Detail Microsoft Dynamics NAV is a well established Enterprise Resource Planning ERP application part of the Microsoft Dynamics family Dynamics NAV is installed worldwide with well over one million users Version 2009 contains many major new features and structures requiring even experienced Dynamics NAV developers to refresh their NAV development knowledge Renowned for its challenging learning curve Dynamics NAV is a complex piece of software with a unique design structure For developers learning to modify or enhance Dynamics NAV for vital business purposes the task can sometimes be intimidating This book is an in depth step by step guide to programming NAV designed to ease you through the complexities of NAV application development You will learn the skills and develop the confidence to tackle your own critical NAV applications This book will act as your experienced NAV programming mentor helping you to become productive as a NAV developer much more quickly NAV development is quite complex with a steep learning curve This book makes it easy for you From basic NAV terminology and concept definitions through the essential building blocks of NAV data structure and objects you will gain an understanding of the fundamental underlying concepts of NAV You will learn practical details about NAV object construction and the tools available including table page and report design You will learn how to use NAV s tools to effectively navigate through the various features of objects including properties triggers and C AL code and receive practical guidance on ways to develop and test in the unique NAV C SIDE development environment Extensive guidance on software design for NAV is provided along with tips for efficient design of new NAV applications or enhancing existing applications With its comprehensive collection of NAV information and distillation of years of

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