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**Beginning PowerApps**-Tim Leung 2017-11-27 Build mobile apps that specifically target your company’s unique business needs, with the same ease of writing a simple spreadsheet! With this book, you will build business apps designed to work with your company’s systems and databases, without having to enlist the expertise of costly, professionally trained software developers. In Beginning PowerApps, author and business applications expert Tim Leung guides you step-by-step through the process of building your own mobile app. He assumes no technical background, although if you have worked with Excel, you are one step closer. He guides you through scenarios, such as what to do if you have existing databases with complex data structures and how to write screens that can connect to those data. You will come away with an understanding of how to set up screen navigation, manipulate data from within apps, and write solutions to perform specific tasks. What You’ll Learn Connect with data Write formulas Visualize your data through charts Work with global positioning systems (GPS) Build flows Import and export data Manage offline scenarios Develop custom application programming interfaces (API) Who This Book Is For Beginners and non-developers, and assumes no prior knowledge of PowerApps

**Beginning PowerApps**-Tim Leung 2017-11-28 Build mobile apps that specifically target your company’s unique business needs, with the same ease of writing a simple spreadsheet! With this book, you will build business apps designed to work with your company’s systems and databases, without having to enlist the expertise of costly, professionally trained software developers. In Beginning PowerApps, author and business applications expert Tim Leung guides you step-by-step through the process of building your own mobile app. He assumes no technical background, although if you have worked with Excel, you are one step closer. He guides you through scenarios, such as what to do if you have existing databases with complex data structures and how to write screens that can connect to those data. You will come away with an understanding of how to set up screen navigation, manipulate data from within apps, and write solutions to perform specific tasks. What You’ll Learn Connect with data Write formulas Visualize your data through charts Work with global positioning systems (GPS) Build flows Import and export data Manage offline scenarios Develop custom application programming interfaces (API) Who This Book Is For Beginners and non-developers, and assumes no prior knowledge of PowerApps

**Learn Microsoft PowerApps**-Matthew Weston 2019-11-29 A step-by-step guide that will help you create, share, and deploy applications across your organization using MS PowerApps Key Features Create apps with rich user experiences without paying for costly developers Improve productivity with business process automation using Microsoft Power Automate Build enterprise-grade apps with MS PowerApps’ built-in storage space, Common Data Service Book Description Microsoft PowerApps provides a modern approach to building business applications for mobile, tablet, and browser. Learn Microsoft PowerApps will guide you in creating powerful and productive apps that will add value to your organization by helping you transform old and inefficient processes and workflows. Starting with an introduction to PowerApps, this book will help you set up and configure your first application. You’ll explore a variety of built-in templates and understand the key difference between types of applications such as canvas and model-driven apps, which are used to create apps for specific business scenarios. In addition to this, you’ll learn how to generate and integrate apps directly with SharePoint, and gain an understanding of PowerApps key components such as connectors and formulas. As you advance, you’ll be able to use various controls and data sources, including technologies such as GPS, and combine them to create an iterative app. Finally, the book will help you understand how PowerApps can use several Microsoft Power Automate and Azure functionalities to improve your applications. By the end of this PowerApps book, you’ll be ready to confidently develop lightweight business applications with minimal code. What you will learn Design an app by simply dragging and dropping elements onto your canvas Understand how to store images within PowerApps Explore the use of GPS and how you can use GPS data in PowerApps Get to grips with using barcodes and QR codes in your apps Share your applications with the help of Microsoft Teams and SharePoint Use connectors to share data between your app and Microsoft’s app ecosystem Who this book is for This book is ideal for business analysts, IT professionals, and both developers and non-developers alike. If you want to meet business needs by creating high productivity apps, this book is for you. Don’t worry if you have no experience or knowledge of PowerApps, this book simplifies PowerApps for beginners.

**Introducing Microsoft Flow**-Vijai Anand Ramalingam 2018-05-30 Use Microsoft Flow in your business to improve productivity through automation with this step-by-step introductory text from a Microsoft Flow expert. You’ll see the prerequisites to get started with this cloud-based service, including how to create a flow and how to use different connectors. Introducing Microsoft Flow takes you through connecting with SharePoint, creating approval flows, and using mobile apps. This vital information gives you a head-start when planning your Microsoft Flow implementation. The second half of the book continues with managing connections and gateways, where you’ll cover the configuration, creation, and deletion of connectors and how to connect to a data gateway. The final topic is Flow administration and techniques to manage the environment. After reading this book, you will be able to create and manage Flow from desktop, laptop, or mobile devices and connect with multiple services such as SharePoint, Twitter, Facebook, and other networking sites. What You Will Learn Create flows from built-in and blank templates Manage flows, connections, and gateways Create approvals, connect with multiple services, and use mobile apps Who This Book Is For Administrators and those who are interested in creating automated workflows using templates and connecting with multiple services without writing a single line of code.

**Pro Visual Studio LightSwitch 2011 Development**-Tim Leung 2012-06-13 Microsoft Visual Studio LightSwitch 2011 is a rapid application deployment tool that lets power users and administrators build data-centric business applications for the desktop, cloud, and Web in just a few clicks, with no code required. But more advanced developers and business users will hunger for more: how do you design complex screens? How do you query data using LINQ and other syntax structures? How do you secure your application? Pro Visual Studio LightSwitch 2011 Development answers these questions and more as authors Tim Leung and Yann Duran—both awarded Microsoft 2011 Community Contributor Awards for their LightSwitch expertise—cover this breakthrough product and its operations and structure under the covers. For serious developers building, enhancing and deploying advanced business applications using LightSwitch, Pro Visual Studio LightSwitch 2011 Development is the guide for going beyond the "click-and-you’re-done" interface, while still maintaining the elegance and convenience of rapid application development.

**Star Ark**-Rachel Armstrong 2016-11-13 As space ventures have become more numerous, leading scientists and theorists have offered ways of building a living habitat in a hostile environment, taking an ‘ecosystems’ view of space colonization. The contributors to this volume take a radical multi-disciplinary view of the challenge of human space colonization through the ongoing project Persephone. This book fundamentally challenges prevalent ideas about sustainability and proposes a new approach to resource austerity and conservation and providing truly sustainable approaches that are life-promoting. Readers will learn the details of the plans for Persephone – a real project that is part of the company Icarus Interstellar’s plans for the design and engineering of a living interior on a worldship to be constructed in Earth’s orbit within 100 years. Although the timeframe itself is only an estimate, since it is contingent on many significant developments, including funding and technological advances, the industry consensus is that within 100 years we will see manned space exploration beyond our solar system. This notion is shared by organizations such as the Initiative for Interstellar Studies and the DARPA-funded 100-year starship project. This book specifically develops the principles for the construction of a living habitat within a worldship – a multi-generational starship that contains its own world that supports colonists as it travels across great distances between stars at a speed much slower than light. Far from being a sterile industrial setup, such as the ISS, or even being a bucolic suburbia as proposed by Gerard O’Neil in the 1970s, this worldship will provide the pre-conditions for sustaining life beyond Earth’s environment, which may also lead to the evolution of non-terrestrial ecologies. Drawing on the principles of ecopoiesis and insights offered by the Biosphere 2 experiment that demonstrated what we have to learn about

ecosystem construction, this book proposes first designing the soils of such a space. It should then be possible to set up the conditions that a first generation of colonists may experience in leaving our solar system to find new worlds to settle - perhaps in spreading life throughout the universe. Although the book takes a unique view of ecology and sustainability within the setting of a traveling starship it is equally concerned with the human experience on artificial worlds. Chapters come from a range of multi disciplinary thinkers who shed light on the brave new future ahead from different angles.

**Creating Business Applications with Office 365**-Jeffrey M. Rhodes 2019-11-09 Take your Office 365 and SharePoint projects to a higher level by using PowerApps, Flow, Power BI, JavaScript/jQuery jQuery UI widgets, Cascading Style Sheets (CSS), and more. This book will help you create easier solutions to client-side problems and applications. Additionally, you will be able to effectively visualize your data with Power BI. This book starts with configuration of SharePoint and Office 365 followed by your first example of PowerApps. You will lay the foundation for a help ticket application and see how to update a SharePoint list with PowerApps. You then will work with the jQuery open source library and learn how to use the developer tools within your browser. This allows you to customize data displays in SharePoint. Next, you will add jQuery UI widgets such as buttons and dialogs to SharePoint, learning how to configure and manipulate them via JavaScript. You will use these new skills to convert a normal SharePoint announcement into a visually compelling page of network alerts. You also will use JavaScript and styles to hugely improve native SharePoint calendars by color-coding them by category or location. To prevent overlapping events in calendars, you will work with SharePoint’s web services and JavaScript. You will use similar concepts to make appealing accordion SharePoint pages. You then will explore Microsoft Forms, Flow, and Power BI, including building surveys in both Forms and SharePoint and using Power BI to show results over the last week, month, quarter, and year. Using advanced Power BI you will see how to deal with JSON, XML, and Yes/No data. Next, you will look at how to display Office documents as well as interact with them via JavaScript. Switching back to PowerApps, you will build the final help ticketing system before using Power BI to see how to visualize the ticket information. After a quick detour on using iFrames in SharePoint, you will jump into building a power routing application using InfoPath and SharePoint Designer. You will even call SharePoint’s web services from Designer to customize email notifications. You end the InfoPath set of chapters with a highly useful application for signing up for and managing attendance for training and other classes. Finally, you will add Google Analytics to track SharePoint usage. What You Will Learn Build powerful applications with PowerApps Extend SharePoint’s capabilities using JavaScript Create surveys with SharePoint and Microsoft Forms, copy the results to SharePoint using Flow, and visualize the data with Power BI Employ advanced Power BI techniques to include custom columns, pivoting, and dealing with JSON, XML, and Yes/No data Use InfoPath and SharePoint workflows to create routing systems, schedule classes, and other advanced tasks Who This Book Is For Business and application developers

**Printing in Plastic**-James Floyd Kelly 2011-08-13 Printing in Plastic: Build Your Own 3D Printer is your gateway into the exciting world of personal fabrication. The “printer” that you’ll build from this book is a personal fabricator capable of creating small parts and other objects from drops of molten plastic. Design a part using a modeling tool such as Google SketchUp. Then, watch while the fabricator head sweeps back and forth and upwards, depositing plastic in all the right places. You can build anything from a replacement tab to hold a bookshelf in place, to a small art project, to a bashguard for your bicycle. If you can conceive it and design it, you can build it, and you’ll have fun doing it! Printing in Plastic is aimed at creative people comfortable using power tools such as a table saw, circular saw, and drill press. Authors James Kelly and Patrick Hood-Daniel lead you through building a personal fabrication machine based upon a set of blueprints downloaded from their website. Example projects get you started in designing and fabricating your own parts. Bring your handyman skills, and apply patience during the build process. You too can be the proud owner of a personal fabricator—a three-dimensional printer. Leads you through building a personal fabrication machine capable of creating small parts and objects from plastic Provides example projects to get you started on the road to designing and fabricating your own parts Provides an excellent parent/child, or small group project

**Pro Power BI Architecture**-Reza Rad 2018-11-19 Architect and deploy a Power BI solution. This book will help you understand the many available options and choose the best combination for hosting, developing, sharing, and deploying a Power BI solution within your organization. Pro Power BI Architecture provides detailed examples and explains the different methods available for sharing and securing Power BI content so that only intended recipients can see it. Commonly encountered problems you will learn to handle include content unexpectedly changing while users are in the process of creating reports and building analysis, methods of sharing analyses that don’t cover all the requirements of your business or organization, and inconsistent security models. The knowledge provided in this book will allow you to choose an architecture and deployment model that suits the needs of your organization, ensuring that you do not spend your time maintaining your solution but on using it for its intended purpose and gaining business value from mining and analyzing your organization’s data. What You’ll Learn Architect and administer enterprise-level Power BI solutions Choose the right sharing method for your Power BI solution Create and manage environments for development, testing, and production Implement row level security in multiple ways to secure your data Save money by choosing the right licensing plan Select a suitable connection type—Live Connection, DirectQuery, or Scheduled Refresh—for your use case Set up a Power BI gateway to bridge between on-premises data sources and the Power BI cloud service Who This Book Is For Data analysts, developers, architects, and managers who want to leverage Power BI for their reporting solution

**Arduino and Kinect Projects**-Enrique Ramos Melgar 2012-06-09 If you’ve done some Arduino tinkering and wondered how you could incorporate the Kinect—or the other way around—then this book is for you. The authors of Arduino and Kinect Projects will show you how to create 10 amazing, creative projects, from simple to complex. You’ll also find out how to incorporate Processing in your project design—a language very similar to the Arduino language. The ten projects are carefully designed to build on your skills at every step. Starting with the Arduino and Kinect equivalent of "Hello, World," the authors will take you through a diverse range of projects that showcase the huge range of possibilities that open up when Kinect and Arduino are combined. Gesture-based Remote Control. Control devices and home appliances with hand gestures. Kinect-networked Puppet. Play with a physical puppet remotely using your whole body. Mood Lamps. Build your own set of responsive, gesture controllable LED lamps. Drawing Robot. Control a drawing robot using a Kinect-based tangible table. Remote-controlled Vehicle. Use your body gestures to control a smart vehicle. Biometric Station. Use the Kinect for biometric recognition and checking Body Mass Indexes. 3D Modeling Interface. Learn how to use the Arduino LilyPad to build a wearable 3D modelling interface. 360o Scanner. Build a turntable scanner and scan any object 360o using only one Kinect. Delta Robot. Build and control your own fast and accurate parallel robot.

**Expert Oracle RAC 12c**-Riyaj Shamsudeen 2013-08-13 Expert Oracle RAC 12c is a hands-on book helping you understand and implement Oracle Real Application Clusters (RAC), and to reduce the total-cost-of-ownership (TCO) of a RAC database. As a seasoned professional, you are probably aware of the importance of understanding the technical details behind the RAC stack. This book provides deep understanding of RAC concepts and implementation details that you can apply toward your day-to-day operational practices. You’ll be guided in troubleshooting and avoiding trouble in your installation. Successful RAC operation hinges upon a fast-performing network interconnect, and this book dedicates a chapter solely to that very important and easily overlooked topic. All four authors are experienced RAC engineers with a wealth of hard-won experience encountering and surmounting the challenges of running a RAC environment that delivers on its promise. In Expert Oracle RAC 12c they provide you a framework in which to avoid repeating their hard-won lessons. Their goal is for you to manage your own RAC environment with ease and expertise. Provides a deep conceptual understanding of RAC Provides best practices to implement RAC properly and match application workload Enables readers to troubleshoot RAC with ease What you’ll learn Know when to apply RAC, and when not to Design applications to take advantage of RAC Troubleshoot and solve

clusterware problems Manage database backup and recovery in RAC Stay on top of locking issues and deadlock detection Harness the performance from parallel processing in RAC Support your RAC environment with a healthy network interconnect Who this book is for Expert Oracle RAC 12c is for experienced Oracle Database Administrators (DBAs) who are ready to take the next step in their career by expanding their skill set to include building and managing Oracle Real Application Clusters (RAC). DBAs and architects who are in the process of implementing RAC can immensely benefit from this book. It's an excellent choice for DBAs to learn RAC conceptually, understand best practices, and become experts in troubleshooting RAC problems. Table of ContentsOverview of Oracle RAC Clusterware Management and Troubleshooting RAC Operational Practices RAC New Features Storage and ASM Practices Application Design Issues Managing and Optimizing a Complex RAC Environment Backup and Recovery in RAC Network Practices in RAC RAC Database Optimization Locks and Deadlocks Parallel Query in RAC Clusterware and Database Upgrades Oracle RAC One Node

**Pro Microsoft Power Platform**-Mitchell Pearson 2020-11-09 Become a self-sufficient citizen developer by learning the tools within the Microsoft Power Platform and how they can be used together to drive change and multiply your productivity. Learn about PowerApps for building applications, Microsoft Flow for automating business processes across those applications, and Power BI for analyzing results and communicating business intelligence through compelling visuals. By understanding the purpose and capabilities of these tools, you will be able to enhance your organization's visibility into key areas and make informed business decisions in a timely matter. This book is divided into four parts and begins in Part I by showing you how to build applications through PowerApps. You will learn about screens and controls, application sharing and administration, and how to make your applications accessible from mobile devices such as phones and tablets. Part II is about creating workflows using Microsoft Flow that implement business logic across your applications. Part III brings in dashboards and data analysis, showing you how to connect to a data source, cleanse the data from that source, and drive decision making through interactive reports and storytelling. Part IV brings together all the pieces by showing the integrations that are possible when all three tools are combined into a single solution. What You Will Learn Understand the need for the citizen developer in today's business environment Organize and plan the building of line-of-business applications with PowerApps solutions Replace wasteful paper processes with automated applications built in PowerApps Automate workflows across processes with Microsoft Flow Communicate analytical results through visualizations and storytelling Integrate PowerApps, Microsoft Flow, and Power BI into solutions that multiply productivity Who This Book Is For Power users and analysts with strong Excel skills who need a more comprehensive set of tools that can better help them accomplish their vision on projects, those familiar with one of the Power Platform tools who wish to learn how all three can fit together, and those who are seen as as "rogue IT" problem solvers who get things done when others have tried but failed

**Visual Studio Lightswitch 2015**-Tim Leung 2015-12-24 In this fully updated second edition, award-winning author Tim Leung explains how to build data-centric business applications for the desktop, cloud, web, and mobile devices in just a few clicks—with no code required—using Visual Studio Lightswitch 2015. This book explains the basics of Visual Studio Lightswitch 2015 plus new features and key advanced topics that every Microsoft developer needs to know to create modern data services and build clients that can run on multiple devices. Visual Studio LightSwitch 2015 is a rapid application deployment tool that simplifies and shortens the time needed to develop business applications. The basics are very easily understood but more advanced users will hunger for more. How do you design complex layouts? How do you query data using LINQ and other syntax structures? How do you secure your application against malicious use? Visual Studio LightSwitch 2015 answers these questions and more as author Tim Leung—winner of a Microsoft 2011 Community Contributor Award for his LightSwitch expertise—covers this breakthrough product in detail. For serious developers building, enhancing, and deploying advanced business applications using LightSwitch makes sense because they can benefit from the elegance, convenience, and cost savings afforded by rapid application development before going beyond the "click-and-you're-done" interface to include the extra value and depth of coding expertise that their clients value. What You Will Learn: Build Desktop and HTML5 business applications for PC or mobile devices Create compelling user interfaces that can support multiple languages Fine tune your application with C#, VB.NET, JQuery, JavaScript, and CSS code Integrate with mapping, GPS, and location services Provide email notification, and Microsoft Office compatible data exports Enable users to carry out advanced searches on data Build screen controls that you can share with other developers

**Professional Mobile Application Development**-Jeff McWherter 2012-08-16 Create applications for all major smartphone platforms Creating applications for the myriad versions and varieties of mobile phone platforms on the market can be daunting to even the most seasoned developer. This authoritative guide is written in such as way that it takes your existing skills and experience and uses that background as a solid foundation for developing applications that cross over between platforms, thereby freeing you from having to learn a new platform from scratch each time. Concise explanations walk you through the tools and patterns for developing for all the mobile platforms while detailed steps walk you through setting up your development environment for each platform. Covers all the major options from native development to web application development Discusses major third party platform development acceleration tools, such as Appcelerator and PhoneGap Zeroes in on topics such as developing applications for Android, IOS, Windows Phone 7, and Blackberry Professional Mobile Cross Platform Development shows you how to best exploit the growth in mobile platforms, with a minimum of hassle.

**Microsoft Dynamics 365 Extensions Cookbook**-Rami Mounla 2017-06-07 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.

**Hands-On GUI Application Development in Go**-Andrew Williams 2019-02-25 Discover Golang's GUI libraries such as Go-GTK (GIMP Toolkit) and Go-Qt and build beautiful, performant, and responsive graphical applications Key Features Conceptualize and build state-of-art GUI applications with Golang (Go) Tackle the complexity of varying GUI application sizes with a structured and scalable approach Get hands-on experience of GUI development with Shiny, and labs/ui, Fyne, and Walk Book Description Go is often compared to C++ when it comes to low-level programming and implementations that require faster processing, such as Graphical User Interfaces (GUIs). In fact, many claim that Go is superior to C++ in terms of its concurrency and ease of use. Most graphical application toolkits, though, are still written using C or C++, and so they don't enjoy the benefits of using a modern programming language such as Go. This guide to programming GUIs with Go 1.11 explores the various toolkits available, including UI, Walk, Shiny, and Fyne. The book compares the vision behind each project to help you pick the right approach for your project. Each framework is described in detail, outlining how you can build performant applications that users will love. To aid you further in creating applications using these emerging technologies, you'll be able to easily refer to code samples and screenshots featured in the book. In addition to toolkit-specific discussions, you'll cover more complex topics, such as how to structure growing graphical applications, and how cross-platform applications can integrate with each desktop operating system to create a seamless user experience. By delving into techniques and best practices for organizing and scaling Go-based graphical applications, you'll also glimpse Go's impressive concurrency system. In the concluding chapters, you'll discover how to distribute to the main desktop marketplaces and distribution channels.

By the end of this book, you'll be a confident GUI developer who can use the Go language to boost the performance of your applications. What you will learn Understand the benefits and complexities of building native graphical applications Gain insights into how Go makes cross-platform graphical application development simple Build platform-native GUI applications using andlabs/ui Develop graphical Windows applications using Walk Create multiplatform GUI applications using Shiny, Nuklear, and Fyne Use Go wrappers for GTK and Qt for GUI application development Streamline your requirements to pick the correct toolkit strategy Who this book is for This book is designed for Go developers who are interested in building native graphical applications for desktop computers and beyond. Some knowledge of building applications using Go is useful, but not essential. Experience in developing GUIs is not required as the book explores the benefits and challenges they pose. This book will also be beneficial for GUI application developers who are interested in trying Go.

**The Technological and Economic Future of Nuclear Power**-Reinhard Haas 2019-01-01 This open access book discusses the eroding economics of nuclear power for electricity generation as well as technical, legal, and political acceptance issues. The use of nuclear power for electricity generation is still a heavily disputed issue. Aside from technical risks, safety issues, and the unsolved problem of nuclear waste disposal, the economic performance is currently a major barrier. In recent years, the costs have skyrocketed especially in the European countries and North America. At the same time, the costs of alternatives such as photovoltaics and wind power have significantly decreased. Contents History and Current Status of the World Nuclear Industry The Dramatic Decrease of the Economics of Nuclear Power Nuclear Policy in the EU The Legacy of Csernobył and Fukushima Nuclear Waste and Decommissioning of Nuclear Power Plants Alternatives: Heading Towards Sustainable Electricity Systems Target Groups Researchers and students in the fields of political, economic and technical sciences Energy (policy) experts, nuclear energy experts and practitioners, economists, engineers, consultants, civil society organizations The Editors Prof. Dr. Reinhard Haas is University Professor of energy economics at the Institute of Energy Systems and Electric Drives at Technische Universität Wien, Austria. PD Dr. Lutz Mez is Associate Professor at the Department for Political and Social Sciences of Freie Universität Berlin, Germany. PD Dr. Amela Ajanovic is a senior researcher and lecturer at the Institute of Energy Systems and Electrical Drives at Technische Universität Wien, Austria.--

**Common Data Service**-David Yack 2019-11-18 As businesses look to modernize their line of business applications Microsoft Power Platform is the tool of choice to accelerate and implement digital transformation. Microsoft Power Platform is made up of Power Apps, Power Automate and Power BI. The Common Data Service (CDS) is a key component of the Power Platform and provides for data storage and related business logic execution. CDS implements Microsoft's Common Data Model (CDM) allowing it to be part of the data fabric in an organization with a common way of describing core business data. In this book, we are focused on using the Common Data Service to build business applications. Specifically, we will look at the capabilities required to build data models for real world business applications. These applications can be built by power users (e.g. Joe or Sue from accounting) or by professional app makers whose job is focused on building Power Platform solutions.

**Robust Cloud Integration with Azure**-Mahindra Morar 2017-03-22 Unleash the power of serverless integration with Azure About This Book Build and support highly available and scalable API Apps by learning powerful Azure-based cloud integration Deploy and deliver applications that integrate seamlessly in the cloud and quickly adapt as per your integration needs Deploy hybrid applications that work and integrate on the cloud (using Logic Apps and BizTalk Server) Who This Book Is For This book is for Microsoft Enterprise developers, DevOps, and IT professionals who would like to use Azure App Service and Microsoft Cloud Integration technologies to create cloud-based web and mobile apps. What You Will Learn Explore new models of robust cloud integration in Microsoft Azure Create your own connector and learn how to publish and manage it Build reliable, scalable, and secure business workflows using Azure Logic Apps Simplify SaaS connectivity with Azure using Logic Apps Connect your on-premises system to Azure securely Get to know more about Logic Apps and how to connect to on-premises "line-of-business" applications using Microsoft BizTalk Server In Detail Microsoft is focusing heavily on Enterprise connectivity so that developers can build scalable web and mobile apps and services in the cloud. In short, Enterprise connectivity from anywhere and to any device. These integration services are being offered through powerful Azure-based services. This book will teach you how to design and implement cloud integration using Microsoft Azure. It starts by showing you how to build, deploy, and secure the API app. Next, it introduces you to Logic Apps and helps you quickly start building your integration applications. We'll then go through the different connectors available for Logic Apps to build your automated business process workflow. Further on, you will see how to create a complex workflow in Logic Apps using Azure Function. You will then add a SaaS application to your existing cloud applications and create Queues and Topics in Service Bus on Azure using Azure Portal. Towards the end, we'll explore event hubs and IoT hubs, and you'll get to know more about how to tool and monitor the business workflow in Logic Apps. Using this book, you will be able to support your apps that connect to data anywhere—be it in the cloud or on-premises. Style and approach This practical hands-on tutorial shows you the full capability of App Service and other Azure-based integration services to build scalable and highly available web and mobile apps. It helps you successfully build and support your applications in the cloud or on-premises successfully. We'll debunk the popular myth that switching to cloud is risky—it's not!

**Beginning Power BI**-Dan Clark 2017-02-28 Analyze your company's data quickly and easily using Microsoft's latest tools. You will learn to build scalable and robust data models to work from, clean and combine different data sources effectively, and create compelling visualizations and share them with your colleagues. Author Dan Clark takes you through each topic using step-by-step activities and plenty of screen shots to help familiarize you with the tools. This second edition includes new material on advanced uses of Power Query, along with the latest user guidance on the evolving Power BI platform. Beginning Power BI is your hands-on guide to quick, reliable, and valuable data insight. What You'll Learn Simplify data discovery, association, and cleansing Build solid analytical data models Create robust interactive data presentations Combine analytical and geographic data in map-based visualizations Publish and share dashboards and reports Who This Book Is For Business analysts, database administrators, developers, and other professionals looking to better understand and communicate with data

**Using Microsoft Dynamics 365 for Finance and Operations**-Andreas Luszczak 2018-12-07 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.

**Oracle Application Express by Design**-Patrick Cimolini 2017-11-01 Learn the many design decisions that must be made before starting to build a large Oracle Application Express (APEX) application for the cloud or enterprise. One of APEX's key strengths is the fact that it is a Rapid Application Development (RAD) tool. This is also a major weakness when it tempts developers to start coding too soon. Small applications that consist of tens of pages can be coded without a lot of design work because they can be re-factored quickly when design flaws are discovered. Design flaws in large cloud and enterprise applications that consist of hundreds or thousands of pages are not so easy to re-factor due to the time needed to redevelop and retest the application, not to mention the risk of breaking functionality in subtle ways. Designing a large application before coding starts is a profitable exercise because a thoughtful design goes a long way in mitigating cost overruns and schedule slippage while simultaneously enhancing quality. This book takes into account perspectives from other non-developer stakeholders such as maintenance developers, business analysts, testers, technical writers, end users, and business owners. Overlooking these perspectives is one of the chief causes of expensive rework late in the development cycle. Oracle Application Express by Design illustrates APEX design principles by using architecture diagrams, screen shots, and explicit code snippets to guide developers through the many design choices and complex interrelationship issues that must be evaluated before embarking on large APEX projects. This book: Guides you through important, up-front APEX design decisions Helps you to optimize your design by keeping all stakeholders in mind Explicit code examples show how design impacts cost, schedule, and quality What You Will Learn Pick and choose from the list of designs before coding begins Bake optimal quality into the underlying fabric of an APEX application Think and design from outside the developer's narrow perspective Optimize APEX application designs to satisfy multiple stakeholder groups Evaluate design options through hands-on, explicit code examples Define and measure success for large cloud and enterprise APEX applications Who This Book Is For APEX developers and development teams

**Learning Mobile App Development**-Jakob Iversen 2013-12-17 The Only Tutorial Covering BOTH iOS and Android—for students and professionals alike! Now, one book can help you master mobile app development with both market-leading platforms: Apple’s iOS and Google’s Android. Perfect for both students and professionals, Learning Mobile App Development is the only tutorial with complete parallel coverage of both iOS and Android. With this guide, you can master either platform, or both—and gain a deeper understanding of the issues associated with developing mobile apps. You’ll develop an actual working app on both iOS and Android, mastering the entire mobile app development lifecycle, from planning through licensing and distribution. Each tutorial in this book has been carefully designed to support readers with widely varying backgrounds and has been extensively tested in live developer training courses. If you’re new to iOS, you’ll also find an easy, practical introduction to Objective-C, Apple’s native language. All source code for this book, organized by chapter, is available at <https://github.com/LearningMobile/BookApps> Coverage includes Understanding the unique design challenges associated with mobile apps Setting up your Android and iOS development environments Mastering Eclipse development tools for Android and Xcode 5 tools for iOS Designing interfaces and navigation schemes that leverage each platform’s power Reliably integrating persistent data into your apps Using lists (Android) or tables (iOS) to effectively present data to users Capturing device location, displaying it, and using it in your apps Accessing hardware devices and sensors Publishing custom apps internally within an organization Monetizing your apps on Apple’s AppStore or the Google Play marketplace, as well as other ways of profiting from app development, such as consulting and developer jobs

**Practical API Architecture and Development with Azure and AWS**-Thurupathan Vijayakumar 2018-06-20 Learn the business and technical importance of API design and architecture using the available cloud services from Azure and AWS. This book starts off with an introduction to APIs and the concept of API Economy from a business and organizational perspective. You'll decide on a sustainable API strategy and API architecture based on different case scenarios. You'll then look at actual examples on API development guidelines, providing a practical view and approach towards the API development and aligning teams in API development. This book walks you through the API gateway services available in Azure and AWS and reviews different approaches to API Security. This will prepare you for understanding the trade-off between security and the frictionless API experience. What You'll Learn Implement API Gateways to streamline API Development Examine Security Mapping with API gateways from Azure and AWS Apply API implementation using Serverless architecture Review evolving APIs for monitoring and changing business requirements Use code samples in API security implementations Who This Book Is For Developers and architects with .NET and web development experience who want to learn about API design.

**Pro .NET Framework with the Base Class Library**-Roger Villela 2019-01-14 Learn about the fundamentals and inner workings of the Common Type System (CTS) and the Virtual Execution System (VES) of the Common Language Runtime (CLR) and how they relate to the Base Class Library (BCL) from the perspective of the execution environment. The author first gives an introduction to the .NET Framework and describes the architectural and engineering resources required when implementing the .NET Framework on any platform. Next, you will learn about the BCL and understand how to work with system structures including the fundamental built-in types `system.array` and `system.string`. You will then learn about the VES along with its methods and functionality. Further, you will go through the Common Intermediate Language (CIL), Assembly Manifest, and versioning. You will also learn how to design and implement libraries in detail by creating a .NET class library. After reading this book, you will understand .NET Framework features, as well as details about the core functionalities of the VES and elements of the CTS. What You Will Learn Discover details of the Common Type System (CTS) Work with the Virtual Execution System (VES) See the importance of correct use of fundamental built-in managed types Carry out good programming practice in a managed environment Implement a .NET class library Who Is This Book For Developers who are working with the .NET Framework on Windows.

**Open Source Intelligence Methods and Tools**-Nihad A. Hassan 2018-06-30 Apply Open Source Intelligence (OSINT) techniques, methods, and tools to acquire information from publicly available online sources to support your intelligence analysis. Use the harvested data in different scenarios such as financial, crime, and terrorism investigations as well as performing business competition analysis and acquiring intelligence about individuals and other entities. This book will also improve your skills to acquire information online from both the regular Internet as well as the hidden web through its two sub-layers: the deep web and the dark web. The author includes many OSINT resources that can be used by intelligence agencies as well as by enterprises to monitor trends on a global level, identify risks, and gather competitor intelligence so more effective decisions can be made. You will discover techniques, methods, and tools that are equally used by hackers and penetration testers to gather intelligence about a specific target online. And you will be aware of how OSINT resources can be used in conducting social engineering attacks. Open Source Intelligence Methods and Tools takes a practical approach and lists hundreds of OSINT resources that can be used to gather intelligence from online public sources. The book also covers how to anonymize your digital identity online so you can conduct your searching activities without revealing your identity. What You'll Learn Identify intelligence needs and leverage a broad range of tools and sources to improve data collection, analysis, and decision making in your organization Use OSINT resources to protect individuals and enterprises by discovering data that is online, exposed, and sensitive and hide the data before it is revealed by outside attackers Gather corporate intelligence about business competitors and predict future market directions Conduct advanced searches to gather intelligence from social media sites such as Facebook and Twitter Understand the different layers that make up the Internet and how to search within the invisible web which contains both the deep and the dark webs Who This Book Is For Penetration testers, digital forensics investigators, intelligence services, military, law enforcement, UN agencies, and for-profit/non-profit enterprises

**Head First JavaScript**-Michael Morrison 2007-12-20 So you're ready to make the leap from writing HTML and CSS web pages to creating dynamic web applications. You want to take your web skills to the next level. And you're finally ready to add "programmer" to the resume. It sounds like you're ready to learn the Web's hottest programming language: JavaScript. Head First JavaScript is your ticket to going beyond copying and pasting the code from someone else's web site, and writing your own interactive web pages. With Head First JavaScript, you learn: The basics of programming, from variables to types to looping How the web browser runs your code, and how you can talk to the browser with your code Why you'll never have to worry about casting, overloading, or polymorphism when you're writing JavaScript code How to use the Document Object Model to change your web pages without making your users click buttons If you've ever read a Head First book, you know what to expect -- a visually rich format designed for the way your brain works. Head First JavaScript is no exception. It starts where HTML and CSS leave off, and takes you through your first program into more complex programming concepts -- like working directly with the web browser's object model and writing code that works on all modern browsers. Don't be intimidated if you've never written a line of code before! In typical Head First style, Head First JavaScript doesn't skip steps, and we're not interested in having you cut and paste code. You'll learn JavaScript, understand it, and have a blast along the way. So get ready... dynamic and exciting web pages are just pages away.

**SharePoint Development with the SharePoint Framework**-Jussi Roine 2017-09-29 Design and create beautiful solutions using modern development tools for SharePoint Online About This Book Get the best out of the latest Sharepoint Framework and leverage the Sharepoint RESTful and JSOM APIs. Develop efficient client side applications with JavaScript injection and Sharepoint Addins. Get the best tips and tricks on designing your website flawlessly. Who This Book Is For This book targets current SharePoint developers, as well as people starting their journey on SharePoint development. The reader must have basic web development programming knowledge, including JavaScript and CSS. The reader should have familiarity using and managing SharePoint-based collaboration sites. What You Will Learn Understand what the SharePoint Framework is Create modern solutions using the new tools, approaches and frameworks Learn how to use Visual Studio Code for effective SharePoint development Package and deploy your code, using automation as needed Work with content and data stored in SharePoint Benefit from third party frameworks without having to build your own frameworks Debug and troubleshoot your code with ease Configure security in your application In Detail SharePoint is one of Microsoft's best known web platforms. A loyal audience of developers, IT Pros and power users use it to build line of business solutions. The SharePoint Framework (SPFx) is a great new option for developing SharePoint solutions. Many developers are creating full-trust based solutions or add-in solutions, while also figuring out where and how SPFx fits in the big picture. This book shows you how design, build, deploy and manage SPFx based solutions for SharePoint Online and SharePoint 2016. The book starts by getting you familiar with the basic capabilities of SPFx. After that, we will walk through the tool-chain on how to best create production-ready solutions that can be easily deployed manually or fully automated throughout your target Office 365 tenants. We describe how to configure and use Visual Studio Code, the de facto development environment for SPFx-based solutions. Next, we provide guidance and a solid approach to packaging and deploying your code. We also present a straightforward approach to troubleshooting and debugging your code an environment where business applications run on the client side

instead of the server side. Style and approach The approach will be that of a practical tutorial which will take you through every topic using code samples and working examples.

**Build Mobile Apps with Ionic 4 and Firebase**-Fu Cheng 2018-11-02 Leverage your existing web development skills to learn the whole cycle of hybrid mobile app development. This edition is fully updated with the changes in Ionic 4, including Stencil, a new framework based on the web components standard. It explains Ionic and Firebase in detail, including how to create hybrid mobile apps using using React and Vue, and run those apps in an internal browser using a wrapper created by Apache Cordova. Build Mobile Apps with Ionic 4 and Firebase shows you how to focus on developing front-end code, without needing to manage any back-end code or servers. You'll learn in the context of building a Hacker News client app, which can view top stories in Hacker News, view comments of a story, and add stories to favorites. Explore how Ionic 4 uses Angular as the JavaScript framework to easily develop apps using an interface similar to native apps, and how to access Firebase, a real-time database, in web apps using JavaScript. What You'll Learn Create content-based Ionic mobile apps Work with new Ionic 4 compnents like gesture, text, and keyboard controller Manage your apps with RxJS & Redux Who This Book Is For Front-end developers and mobile app developers

**Beginning Power Apps**-Tim Leung 2021-03-20 Transform the way your business works with easy-to-build apps. With this updated and expanded second edition, you can build business apps that work with your company's systems and databases, without having to enlist the expertise of costly, professionally trained software developers. In this new edition, business applications expert Tim Leung offers step-by-step guidance on how you can improve all areas of your business. He shows how you can replace manual or paper processes with modern apps that run on phone or tablet devices. For administrative and back-office operations, he covers how to build apps with workflow and dashboard capabilities. To facilitate collaboration with customers and clients, you'll learn how to build secure web portals with data entry capabilities, including how to customize those portals with code. This hands-on new edition has 10 new chapters—including coverage on model-driven and portal apps, artificial intelligence, building components using the Power Apps Component Framework, using PowerShell for administration, and more—complete with context, explanatory screenshots, and non-technical terminology. What You Will Learn Create offline capable mobile apps and responsive web apps Carry out logic, data access, and data entry through formulas Embellish apps with charting, file handling, photo, barcode, and location features Set up Common Data Service, SharePoint, and SQL data sources Use AI to predict outcomes, recognize images, and analyze sentiment Integrate apps with external web services and automate tasks with Power Automate Build reusable code and canvas components, make customizations with JavaScript Transfer apps and data, and secure, administer, and monitor Power Apps environments Who This Book Is For Beginners and non-developers, and assumes no prior knowledge of Power Apps

**Dynamics 365 Business Central Development Quick Start Guide**-Stefano Demiliani 2018-08-27 Understanding the new Microsoft Extension model for development Key Features Develop solutions for Dynamics 365 Business Central Orient yourself with the new Microsoft Extension model for development Learn modern ways to develop with Dynamics 365 Business Central Book Description Microsoft Dynamics 365 Business Central is the new SaaS ERP proposition from Microsoft. This latest version has many exciting features guaranteed to make your life easier. This book is an ideal guide to Dynamics 365 Business Central and will help you get started with implementing and designing solutions for real-world scenarios. This book will take you through the fundamental topics for implementing solutions based on Dynamics 365 Business Central (on-premise and SaaS). We'll see the core topics of the new development model (based on extensions) and we'll see how to create applications with the new Microsoft ERP proposition. The book begins by explaining the basics of Dynamics 365 Business Central and the Microsoft ERP proposition. We will then cover topics such as extensions, the new modern development model of Visual studio code, sandboxes, Docker, and many others. By the end of the book, you will have learned how to debug and compile extensions and to deploy them to the cloud and on-premise.You will also have learned how to create serverless business processes for Microsoft Dynamics 365 Business Central. What you will learn Develop solutions for Dynamics 365 Business Central Create a sandbox for extensions development (local or on cloud) Use Docker with Dynamics 365 Business Central Create extensions for Dynamics 365 Business Central Handle dependencies, translations and reporting Deploy extensions on-premise and to the cloud Create serverless processes with Dynamics 365 Business Central Understand source code management for AL Who this book is for This book is for Microsoft Dynamics 365 Business Central solution developers and architects that needs to implement solutions based on the Microsoft's ERP (on-premise and SaaS).

**Beginning DAX with Power BI**-Philip Seamark 2018-03-31 Attention all SQL Pros, DAX is not just for writing Excel-based formulas! Get hands-on learning and expert advice on how to use the vast capabilities of the DAX language to solve common data modeling challenges. Beginning DAX with Power BI teaches key concepts such as mapping techniques from SQL to DAX, filtering, grouping, joining, pivoting, and using temporary tables, all aimed at the SQL professional. Join author Philip Seamark as he guides you on a journey through typical business data transformation scenarios and challenges, and teaches you, step-by-step, how to resolve challenges using DAX. Tips, tricks, and shortcuts are included and explained, along with examples of the SQL equivalent, in order to accelerate learning. Examples in the book range from beginner to advanced, with plenty of detailed explanation when walking through each scenario. What You'll Learn Turbocharge your Power BI model by adding advanced DAX programming techniques Know when to use calculated measures versus calculated columns Generate new tables on the fly from existing data Optimize, monitor, and tune Power BI to improve performance of your models Discover new ideas, tricks, and time-saving techniques for better models Who This Book Is For Business intelligence developers, business analysts, or any SQL user who wants to use Power BI as a reporting tool. A solid understanding of SQL is recommended, as examples throughout the book include the DAX equivalents to SQL problem/solution scenarios.

**Introducing Microsoft Teams**-Balu N Ilag 2018-06-29 Gain industry best practices from planning to implementing Microsoft Teams and learn how to enable, configure, and integrate user provisioning, management, and monitoring. This book also covers troubleshooting Teams with step-by-step instructions and examples. Introducing Microsoft Teams gives you the comprehensive coverage you need to creatively utilize Microsoft Teams services. The author starts by giving an introduction to Microsoft Teams and its architecture followed by optimizing the Teams experience where he describes how organizations can prepare for Teams and enhance existing services. He further shows you how to manage and control the Microsoft Teams experience along with its capabilities and enhancements. You'll learn how to migrate from Skype for Business to Microsoft Teams with a step-by-step tutorial. Finally, you'll get to grips with Teams troubleshooting and best practices. This book has detailed coverage that helps you exploit every capability Microsoft Teams has to offer. It provides the answers you need and the insight that will make your journey from Skype for Business to Teams easier. What You Will Learn Enable guest access in Teams Provision and manage users in Teams Administrate Teams and channels Optimize the Teams experience Enable and configure Microsoft Teams Prepare your network for Microsoft Teams and Office 365 services Migrate from Skype for Business to Microsoft Teams Who This Book Is For Unified communication administrators and IT support engineers who are currently supporting an existing unified communication platform such as Skype for Business (Lync). It would also help support engineers, new administrators, and consultant to start their journey with Teams.

**Mastering Microsoft Teams**-Melissa Hubbard 2021-08-28 Do you need to learn how to use Microsoft Teams? Are you questioning how to drive user adoption, govern content, and manage access for your Teams deployment? Either way, the second edition of this bestseller is your one-stop-shop to learning everything you need to know to find success with Microsoft Teams. Microsoft's popular chat-based collaboration software has many rich features that enable teams to be more efficient, and save valuable time and resources. However, as with all software, there is a learning curve and pitfalls that should be avoided. Begin by learning the core components and use cases for Teams. From there, the authors guide you through ideas to create governance and adoption plans that make sense for your organization or customer. Wrap up with an understanding of features and services in progress, and a roadmap to the future of the product. What You Will Learn Implement, use, and manage Microsoft Teams Understand how Teams drives productivity and engagement by combining the functionality of Microsoft 365 Groups, SharePoint, OneDrive, Outlook, and other services in one location Govern, explain, and use Teams in your organization Use Teams in a structured way to reduce users' time spent in meetings Know the pitfalls to avoid that may create challenges in your usage of Teams Become familiar with the functionality and components of Teams via walk-throughs, including opportunities for automating business processes in Teams See how educators and students can use Teams to improve remote learning Learn about business productivity in a remote world with Microsoft Viva Who This Book Is For Anyone who wants to learn Microsoft Teams. To get the most out of the book, a basic understanding of Office 365 and a subscription, including a Microsoft Teams license, is useful.

**The Biml Book**-Andy Leonard 2017-10-30 Learn Business Intelligence Markup Language (Biml) for automating much of the repetitive, manual labor involved in data integration. We teach you how to build frameworks and use advanced Biml features to get more out of SQL Server Integration Services (SSIS), Transact-SQL (T-SQL), and SQL Server Analysis Services (SSAS) than you ever thought possible. The first part of the book starts with the basics—getting your development environment configured, Biml syntax, and scripting essentials. Whether a beginner or a seasoned Biml expert, the next part of the book guides you through the process of using Biml to build a framework that captures both your design patterns and execution management. Design patterns are reusable code blocks that standardize the approach you use to perform certain types of data integration, logging, and other key data functions. Design patterns solve common problems encountered when developing data integration solutions. Because you do not have to build the code from scratch each time, design patterns improve your efficiency as a Biml developer. In addition to leveraging design patterns in your framework, you will learn how to build a robust metadata store and how to package your framework into Biml bundles for deployment within your enterprise. In the last part of the book, we teach you more advanced Biml features and capabilities, such as SSAS development, T-SQL recipes, documentation autogeneration, and Biml troubleshooting. The Biml Book: Provides practical and applicable examples Teaches you how to use Biml to reduce development time while improving quality Takes you through solutions to common data integration and BI challenges What You'll Learn Master the basics of Business Intelligence Markup Language (Biml) Study patterns for automating SSIS package generation Build a Biml Framework Import and transform database schemas Automate generation of scripts and projects Who This Book Is For BI developers wishing to quickly locate previously tested solutions, Microsoft BI specialists, those seeking more information about solution automation and code generation, and practitioners of Data Integration Lifecycle Management (DILM) in the DevOps enterprise

**Dynamics 365 Application Development**-Deepesh Somani 2018-01-30 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.

**Drupal 8 Development: Beginner's Guide**-Neeraj Kumar 2016-06-30 Develop your programming skills by creating engaging websites using Drupal 8 About This Book Explore the new features of Drupal 8 through practical and interesting examples while building a fully functional recipe sharing website Learn about web content management, multi-media integration, and the newly introduced native web services in Drupal 8 A hands-on, example-driven guide to developing Drupal websites that covers everything from site building, theme development, creating custom modules, as well as the development environment Who This Book Is For If you are a developer who wants to use Drupal to enhance your website project and web application to manage content, this book is for you. Whether you are new to Drupal or an experienced web developer, you will be able to master both basic configuration and advanced module development in Drupal through this book. What You Will Learn Set up your Drupal development environment Brush up on your understanding of the concepts of object-oriented programming, module development, and test-driven development Install and configure Drupal, add new content type, and work through lot of dummy content to create listing pages using views Enhance the content author's user experience and custom block Find out about field Type API and explore custom theme development Manage various media types in Drupal for your content-rich website In Detail Drupal is one of the most popular platforms with which to develop websites. With more and more organizations looking to build engaging digital experience for their stakeholders, the Drupal Content Management System offers a mobile-first platform with native support for integrations, better

performance, and scalability. The new version brings significant changes to its module development and theme creation techniques, improving performance and refining the development experience. This book will help you develop your own website using Drupal 8 in a step-by-step manner. You'll start off by setting up your development environment, enabling you to begin writing custom code for a Drupal-powered website through PHPStorm. You will learn about configuration management and creating custom content types before exploring the HTML5 features included with Drupal 8. You will then get familiar with Drupal 8's mobile-first features, explore the built-in WYSIWYG and in-line editing capabilities of Drupal 8, and enhance the overall authoring experience. Later, you will create and enhance a Media Entity Lightbox module, before taking an in-depth look at the Views module. We then cover some advanced search concepts and walk you through the installation and integration of the Java-based Apache Solr search engine. Finally, you will explore and configure the built-in support for REST and extend its support by installing the RESTful module. By the end of the book, you will have created a recipe sharing website while gaining a solid understanding of development best practices for Drupal 8. Style and approach Each chapter provides examples in a sequential manner from basic to advanced, and each example is explained using easy-to-understand language and a step-by-step approach. This programming experience will enable you to create a wide range of content authoring as well as end user experience.

**Collect, Combine, and Transform Data Using Power Query in Excel and Power BI**-Gil Raviv 2019

**Graph Databases**-Ian Robinson 2013-06-10 Discover how graph databases can help you manage and query highly connected data. With this practical book, you'll learn how to design and implement a graph database that brings the power of graphs to bear on a broad range of problem domains. Whether you want to speed up your response to user queries or build a database that can adapt as your business evolves, this book shows you how to apply the schema-free graph model to real-world problems. Learn how different organizations are using graph databases to outperform their competitors. With this book's data modeling, query, and code examples, you'll quickly be able to implement your own solution. Model data with the Cypher query language and property graph model Learn best practices and common pitfalls when modeling with graphs Plan and implement a graph database solution in test-driven fashion Explore real-world examples to learn how and why organizations use a graph database Understand common patterns and components of graph database architecture Use analytical techniques and algorithms to mine graph database information

**Complete Guide to Test Automation**-Arnon Axelrod 2018-09-22 Rely on this robust and thorough guide to build and maintain successful test automation. As the software industry shifts from traditional waterfall paradigms into more agile ones, test automation becomes a highly important tool that allows your development teams to deliver software at an ever-increasing pace without compromising quality. Even though it may seem trivial to automate the repetitive tester's work, using test automation efficiently and properly is not trivial. Many test automation endeavors end up in the "graveyard" of software projects. There are many things that affect the value of test automation, and also its costs. This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed, but also allow the entire software project to thrive. One of the most important details that affects the success of the test automation is how easy it is to maintain the automated tests. Complete Guide to Test Automation provides a detailed hands-on guide for writing highly maintainable test code. What You'll Learn Know the real value to be expected from test automation Discover the key traits that will make your test automation project succeed Be aware of the different considerations to take into account when planning automated tests vs. manual tests Determine who should implement the tests and the implications of this decision Architect the test project and fit it to the architecture of the tested application Design and implement highly reliable automated tests Begin gaining value from test automation earlier Integrate test automation into the business processes of the development team Leverage test automation to improve your organization's performance and quality, even without formal authority Understand how different types of automated tests will fit into your testing strategy, including unit testing, load and performance testing, visual testing, and more Who This Book Is For Those involved with software development such as test automation leads, QA managers, test automation developers, and development managers. Some parts of the book assume hands-on experience in writing code in an object-oriented language (mainly C# or Java), although most of the content is also relevant for nonprogrammers.