

custom desktop app development

custom desktop app development plays a critical role in modern business environments, offering tailored software solutions that enhance productivity, streamline workflows, and meet specific organizational needs. Unlike off-the-shelf software, custom desktop applications are designed to fit unique operational requirements, providing greater flexibility, scalability, and integration capabilities. This article explores the fundamentals of custom desktop app development, including its benefits, development process, popular technologies, and best practices. Whether for enterprise use or specialized industries, understanding these aspects ensures informed decisions regarding software investments. The following sections will delve into key elements such as project planning, design considerations, implementation strategies, and maintenance approaches to maximize the value of custom desktop software solutions.

- Benefits of Custom Desktop App Development
- Key Stages in the Development Process
- Popular Technologies for Custom Desktop Applications
- Best Practices in Custom Desktop App Development
- Challenges and Solutions in Development

Benefits of Custom Desktop App Development

Custom desktop app development offers numerous advantages compared to generic software packages. These benefits enable businesses to gain a competitive edge by leveraging technology tailored specifically to their operational demands.

Enhanced Productivity and Efficiency

Custom desktop applications are crafted to automate repetitive tasks, optimize workflows, and support unique business processes. This targeted functionality leads to improved efficiency and reduces time spent on manual operations.

Scalability and Flexibility

Unlike standard software, custom applications can evolve with the organization's needs. They provide scalability options that accommodate growth, new features, and integration with emerging technologies, ensuring long-term usability.

Improved Security and Compliance

Developing a custom desktop app allows businesses to implement specific security protocols and compliance measures aligned with industry standards. This tailored security approach helps protect sensitive data and reduces vulnerabilities.

Cost-Effectiveness Over Time

While initial development costs may be higher than purchasing off-the-shelf software, custom apps eliminate recurring licensing fees and reduce customization expenses. Over time, this results in better return on investment.

- Tailored to specific business needs
- Supports unique workflows and processes
- Offers integration with existing systems
- Provides competitive differentiation

Key Stages in the Development Process

The development of a custom desktop application involves several critical stages that ensure the final product aligns with user requirements and business objectives. Each phase requires careful planning and execution.

Requirement Analysis

This initial phase focuses on gathering detailed information about the business needs, target users, and technical constraints. Clear requirements help define the project scope and guide design decisions.

Design and Prototyping

Design involves creating the application architecture, user interface, and user experience layouts. Prototyping enables stakeholders to visualize functionality early and provide feedback for refinement.

Development and Coding

The coding phase transforms designs into functional software using chosen programming languages and frameworks. Developers implement features, integrations, and security measures during this stage.

Testing and Quality Assurance

Comprehensive testing verifies that the application performs as intended, is free of defects, and meets performance benchmarks. This includes unit testing, integration testing, and user acceptance testing.

Deployment and Maintenance

After successful testing, the application is deployed within the operational environment. Ongoing maintenance ensures the app remains up-to-date, secure, and compatible with evolving business needs.

1. Requirement Gathering
2. Design and Prototyping
3. Development
4. Testing
5. Deployment and Maintenance

Popular Technologies for Custom Desktop Applications

Choosing the right technologies for custom desktop app development is crucial to ensure performance, compatibility, and future-proofing. Several platforms and programming languages dominate the landscape.

Microsoft .NET Framework

The .NET framework, including .NET Core and .NET 5/6+, is widely used for Windows desktop applications. It supports languages like C# and VB.NET, offering robust libraries and tools for scalable development.

Java and JavaFX

Java provides cross-platform capabilities, making it suitable for desktop applications that require compatibility across different operating systems. JavaFX enhances UI development with rich graphics and media support.

Electron

Electron enables developers to build cross-platform desktop apps using web technologies such as HTML, CSS, and JavaScript. It is popular for applications requiring fast development and seamless updates.

C++ and Qt Framework

C++ combined with the Qt framework is preferred for high-performance applications needing extensive customization and native look-and-feel across platforms. This combination supports complex graphical user interfaces.

- .NET Framework for Windows-centric apps
- Java/JavaFX for cross-platform needs
- Electron for web-based desktop solutions
- C++ with Qt for performance-intensive apps

Best Practices in Custom Desktop App Development

Adhering to best practices throughout the development lifecycle improves the quality, usability, and maintainability of custom desktop applications. These practices address both technical and project management aspects.

User-Centered Design

Prioritizing user experience ensures the application is intuitive and meets end-user expectations. Involving users early in design and testing phases facilitates better adoption rates.

Modular Architecture

Developing modular components enhances code reusability and simplifies maintenance. It also facilitates easier updates and integration of new features without disrupting existing functionality.

Robust Security Measures

Incorporating encryption, authentication, and access controls safeguards the application against unauthorized use and data breaches. Regular security audits are essential to maintain protection.

Comprehensive Documentation

Maintaining detailed technical and user documentation supports smooth onboarding, troubleshooting, and future development efforts. Clear documentation reduces dependency on original developers.

Agile Development Methodology

Employing agile practices enables iterative development, continuous feedback, and quicker adjustments to changing requirements, ultimately delivering a more refined product.

- Focus on user experience and usability
- Design with modular and scalable architecture
- Implement strong security protocols
- Maintain thorough documentation
- Use agile development processes

Challenges and Solutions in Development

Custom desktop app development presents several challenges that can affect project success. Identifying these obstacles and applying effective solutions is vital for delivering reliable software.

Requirement Changes and Scope Creep

Frequent changes in requirements can lead to scope creep, impacting timelines and budgets. Establishing clear project goals and change management processes helps mitigate this risk.

Compatibility Issues

Ensuring the application works seamlessly across different operating systems and environments requires thorough testing and adherence to platform-specific guidelines.

Performance Optimization

Custom applications must be optimized to run efficiently on target hardware. Profiling tools and performance tuning during development address latency and resource consumption concerns.

Resource and Skill Constraints

Limited availability of skilled developers can delay progress. Investing in training and collaborating with experienced development teams ensures access to necessary expertise.

Maintenance and Support

Ongoing support is essential for handling bugs, updates, and evolving requirements. Establishing a dedicated maintenance plan ensures the longevity and reliability of the application.

- Manage requirements to prevent scope creep
- Conduct extensive compatibility testing
- Optimize performance through profiling
- Address resource limitations with skilled teams
- Implement structured maintenance plans

Frequently Asked Questions

What is custom desktop app development?

Custom desktop app development is the process of creating software applications specifically tailored to meet the unique needs and requirements of a business or individual, designed to run on desktop operating systems like Windows, macOS, or Linux.

What are the benefits of custom desktop app development?

Benefits include tailored functionality to match specific business processes, improved performance and security, better integration with existing systems, and enhanced user experience compared to off-the-shelf software.

Which programming languages are commonly used for custom desktop app development?

Common programming languages include C#, Java, C++, Python, and Electron (JavaScript) depending on the target platform and specific project requirements.

How long does it typically take to develop a custom desktop application?

Development time varies based on complexity, features, and scope, but typically ranges from a few weeks for simple apps to several months for more complex solutions.

Can custom desktop apps be integrated with cloud

services?

Yes, custom desktop apps can be designed to integrate with various cloud services for data storage, synchronization, authentication, and other functionalities to enhance scalability and accessibility.

What industries benefit the most from custom desktop app development?

Industries such as finance, healthcare, manufacturing, education, and media often benefit significantly due to their need for specialized tools, data security, and offline capabilities.

How is security handled in custom desktop app development?

Security is addressed through practices like code obfuscation, secure data storage, encryption, user authentication, regular updates, and adherence to industry security standards tailored to the app's requirements.

What is the difference between custom desktop apps and web apps?

Custom desktop apps are installed and run locally on a user's computer, offering better performance and offline access, while web apps run in browsers and require internet connectivity but offer easier cross-platform access.

How much does custom desktop app development cost?

Costs vary widely depending on app complexity, features, platform, and development team rates, ranging from a few thousand dollars for simple apps to hundreds of thousands for enterprise-level solutions.

Additional Resources

1. Mastering Custom Desktop Applications with C#

This book offers a comprehensive guide to building custom desktop applications using C#. It covers essential topics such as user interface design, data binding, and integrating with databases. Readers will also learn best practices for writing maintainable and scalable code for Windows desktop environments.

2. Design Patterns for Desktop Software Development

Explore the most effective design patterns tailored for desktop application development. This book explains how to apply patterns like MVC, MVVM, and Observer to create robust and flexible desktop software. It includes practical examples and case studies to help developers implement these patterns in real-world projects.

3. Cross-Platform Desktop App Development with Electron

Learn how to build powerful, cross-platform desktop applications using Electron. This book covers everything from setting up your development environment to packaging and deploying apps on Windows, macOS, and Linux. It

also dives into interfacing with native system APIs and optimizing app performance.

4. *Building Desktop Applications with JavaFX*

A practical guide to developing rich desktop applications using JavaFX technology. The book walks through UI controls, scene graph architecture, and multimedia integration. It also highlights techniques for creating responsive and visually appealing interfaces that run smoothly across different platforms.

5. *Advanced WPF Techniques for Desktop Developers*

Targeted at developers familiar with Windows Presentation Foundation (WPF), this book delves into advanced topics like custom control creation, animation, and data templating. It demonstrates how to harness the full power of XAML and C# to create sophisticated desktop applications with enhanced user experiences.

6. *Custom Desktop Application Development with Python and PyQt*

This resource guides readers through building custom desktop apps using Python combined with the PyQt framework. It covers GUI design, event handling, and integrating Python logic with user interfaces. The book also explores strategies for deploying PyQt applications across various operating systems.

7. *Optimizing Desktop App Performance*

Focus on techniques and tools to improve the speed, responsiveness, and resource management of desktop applications. This book discusses profiling methods, memory management, and asynchronous programming patterns. Developers will learn how to identify bottlenecks and optimize their apps for better user experiences.

8. *Security Best Practices for Desktop Applications*

Security is critical in desktop app development, and this book provides a thorough overview of protecting applications from common vulnerabilities. Topics include secure data storage, authentication methods, and safe communication protocols. Practical examples illustrate how to implement robust security measures in custom desktop software.

9. *Rapid Prototyping for Custom Desktop Applications*

Designed to help developers quickly create and iterate on desktop app prototypes, this book covers tools and methodologies for rapid development. It emphasizes user feedback integration and agile workflows to refine application features efficiently. Readers will discover how to balance speed and quality in the prototyping phase.

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custom desktop app development: *Windows Application Development Cookbook* Marcin

Jamro, 2016-12-21 Discover over 125 solution-based recipes to help you build applications for smartphones, tablets, and desktops Key Features Learn to build applications for Windows 10, the latest Windows version Develop your applications to be compatible with smartphones, tablets, and desktops This guide is packed with recipes covering major solutions to day-to-day problems faced by Windows programmers Book Description Need to ensure you can always create the best Windows apps regardless of platform? What you need are solutions to the biggest issues you can face, so you can always ensure you're making the right choices and creating the best apps you can. The book starts with recipes that will help you set up the integrated development environment before you go ahead and design the user interface. You will learn how to use the MVVM design pattern together with data binding, as well as how to work with data in different file formats. Moving on, you will explore techniques to add animations and graphics to your application, and enable your solution to work with multimedia content. You will also see how to use sensors, such as an accelerometer and a compass, as well as obtain the current GPS location. You will make your application ready to work with Internet-based scenarios, such as composing e-mails or downloading files, before finally testing the project and submitting it to the Windows Store. By the end of the book, you will have a market-ready application compatible across different Windows devices, including smartphones, tablets, and desktops. What you will learn Start developing universal applications for Windows 10 Design user interface in the XAML language Use the MVVM design pattern with data binding Store data in files and in a database Use multimedia content and animations Capture data from built-in sensors Handle various Internet-based scenarios Test the application and submit it to the Windows Store Who this book is for The book is dedicated to programmers with various experience of developing applications for Windows-based smartphones, tablets, and desktops—even beginners can find suitable content.

custom desktop app development: The Best Software Writing I Avram Joel Spolsky, 2006-11-30 Frustrated by the lack of well-written essays on software engineering, Joel Spolsky (of www.joelonsoftware.com fame) has put together a collection of his favorite writings on the topic. With a nod to both the serious and funny sides of technical writing, The Best Software Writing I: Selected and Introduced by Joel Spolsky is an entertaining read and a guide to the technical writing literati. The Best Software Writing I contains writings from: Ken Arnold Leon Bambrick Michael Bean Rory Blyth Adam Bosworth danah boyd Raymond Chen Kevin Cheng and Tom Chi Cory Doctorow ea_spouse Bruce Eckel Paul Ford Paul Graham John Gruber Gregor Hohpe Ron Jeffries Eric Johnson Eric Lippert Michael Lopp Larry Osterman Mary Poppendieck Rick Schaut Aaron Swartz Clay Shirky Eric Sink why the lucky stiff

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custom desktop app development: Development with the Force.com Platform Jason Ouellette, 2009-10-06 Foreword by Craig Weissman, CTO, Salesforce.com Build Cloud-Based Enterprise Applications Fast—and Drive More Value at Lower Cost! Using the Force.com platform, enterprise developers can build and deploy powerful applications far more rapidly than traditional J2EE, Microsoft .NET, or LAMP technology stacks permit. With a free subscription to the Force.com platform, developers can build apps that solve virtually any enterprise challenge with remarkable value, scalability, and reliability. This is the first book that brings together all the practical, technical guidance you need to make the most of Force.com in your own custom enterprise applications. Leading Force.com developer Jason Ouellette helps you identify suitable uses for Force.com and provides all the insights and sample code needed to rapidly prototype, deploy, and integrate with production-quality Force.com applications. Ouellette provides realistic code examples at every step, emphasizing maintainability, flexibility, and interoperability throughout. Writing for developers, architects, and analysts, he shows how to • Create custom enterprise apps on Force.com in days or

weeks, not months or years • Leverage Force.com's extensive capabilities for storing, managing, and securing data • Quickly create sophisticated business logic with the Apex programming language • Use Visualforce to construct custom user interfaces • Establish automated or semiautomated workflows • Implement Ajax behaviors without writing JavaScript code or learning new JavaScript libraries • Integrate Force.com-based data and processes with other applications, inside and outside the platform • Display reports as state-of-the-art dashboards • Integrate Force.com applications with existing Single Sign-On systems This book's extensive sample code may be downloaded from Force.com AppExchange at

<http://sites.force.com/appexchange/listingDetail?listingId=a0N30000001SS3rEAG>

custom desktop app development: Real World Windows 10 Development Edward Moemeka, Elizabeth Moemeka, 2015-12-29 Emphasizing XAML and C#, this book provides readers with all the tools, ideas, and inspiration to begin Windows Universal App development for Windows 10. Real World Windows 10 Development addresses developers who want to break into this market by providing detailed explanations of the various aspects of Universal App development. Written by authors with deep knowledge in Windows 10 universal app development, you will learn how to make the most of the Windows 10 SDK to build applications that can be published on IoT devices, phones, tablets, laptops, desktops, Xbox, HoloLens, and the Surface Hub. Readers will learn how to: Extend the appeal of their native, web-based, or universal apps with media, shell integration, and inter-app communications Build adaptive user interfaces that scale to the screen dimensions they are displayed on Monetize your apps Introduce mapping What if you already have pre-existing software in the form of native win32 applications or a website? Real World Windows 10 Development tackles this by providing detailed tutorials on the approaches used to leverage your existing code investment. Finally, Real World Windows 10 Development provides a step-by-step walk through of the various approaches developers can use to distribute their universal apps. In this book, you'll get: Detailed descriptions of Windows 10 app development Samples emphasizing the use of XAML/C# Adherence to Windows 10 guidelines for successful app acceptance

custom desktop app development: Beginning Windows 8 Application Development István Novák, Zoltan Arvai, György Balássy, David Fulop, 2012-09-06 Learn to use exciting new development tools and create applications for Windows 8 If you're a beginning developer, there's no better place to get up to speed on the Windows 8 SDK than this Wrox guide. A team of Microsoft experts provides a complete course in Windows 8 programming, helping you take full advantage of the innovative new SDK. Written in an easy-to-read style, this book is packed with reusable examples that showcase the endless possibilities of the Windows SDK and also introduces the new Windows 8 app store. It explains how to set up the development environment and covers user interface design, using special effects and graphics, working with C# and C++, and much more. Provides a complete introduction to the Windows SDK and Windows 8, starting with setting up the development environment and building your first application Covers user interface design, touch- and event-driven design elements, leveraging windows-based services, and offline application development with HTML 5 Explores creating C# applications for the Windows 8 system, XNA 4 and Silverlight 5 considerations, and the role of C++ Shows how to debug, certify and deploy your applications Introduces the new Windows 8 app store and offers advice on marketing your apps Beginning Windows 8 Application Development is perfect for anyone who's ready to get started developing apps for the exciting new Windows 8 OS.

custom desktop app development: Hands-On Low-Code Application Development with Salesforce Enrico Murru, 2020-10-16 Explore a wide range of low-code tools in the Salesforce platform for building customized CRM applications without writing any code Key Features Create apps with a rich user experience without paying for costly developers Leverage Salesforce Lightning Platform's declarative features to build professional-grade applications Improve productivity with business process automation using Workflow, Process Builder, and Flow Book Description Low-code platforms allow users to focus on business logic to create solutions without getting trapped in programming complexities. Thanks to its powerful features for designing, developing, and deploying

apps without having to hand-code, Salesforce is at the forefront of the low-code development revolution. This book will guide you in building creative applications for solving your business problems using the declarative framework provided by Salesforce. You'll start by learning how to design your business data model with custom objects, fields, formulas, and validation rules, all secured by the Salesforce security model. You'll then explore tools such as Workflow, Process Builder, Lightning Flow, and Actions that will help you to automate your business processes with ease. This book also shows you how to use Lightning App Builder to build personalized UIs for your Salesforce applications, explains the value of creating community pages for your organization, and teaches you how to customize them with Experience Builder. Finally, you'll work with the sandbox model, deploy your solutions, and deliver an effective release management strategy. By the end of this Salesforce book, you'll be ready to customize Salesforce CRM to meet your business requirements by creating unique solutions without writing a single line of code. What you will learn

- Get to grips with the fundamentals of data modeling to enhance data quality
- Deliver dynamic configuration capabilities using custom settings and metadata types
- Secure your data by implementing the Salesforce security model
- Customize Salesforce applications with Lightning App Builder
- Create impressive pages for your community using Experience Builder
- Use Data Loader to import and export data without writing any code
- Embrace the Salesforce Ohana culture to share knowledge and learn from the global Salesforce community

Who this book is for If you are a citizen developer, business analyst, Salesforce administrator, or anyone interested in developing applications or solutions for business problems but lack technical knowledge, this book is for you. No prior programming experience is required.

custom desktop app development: Developing Business Intelligence Apps for SharePoint David Feldman, Jason Himmelstein, 2013-07-02 Create dynamic business intelligence (BI) solutions for SharePoint faster and with more capabilities than previously possible. With this book, you'll learn the entire process—from high-level concepts to development and deployment—for building data-rich BI applications with Visual Studio LightSwitch, SQL Server 2012, and a host of related Microsoft technologies. You'll learn practical techniques and patterns necessary to use all of these technologies together as you build an example application through the course of the book, step by step. Discover how to solve real problems, using BI solutions that will evolve to meet future needs. Learn the fundamentals of SharePoint, LightSwitch, and SQL Server 2012 Get a solid grounding in BI application basics and database design principles Use LightSwitch to build a help desk app, including data model design and SharePoint data integration Build a tabular cube with Microsoft's Business Intelligence Semantic Model (BISM) Dive into the data visualization stack, including Excel and SQL Server Reporting Services Create reports with Excel Services, Report Builder, and PowerView Use tips and tricks for setting up your BI application development environment

custom desktop app development: *End to End GUI Development with Qt5* Nicholas Sherriff, Guillaume Lazar, Robin Penea, Marco Piccolino, 2018-11-14 Learn the complete Qt ecosystem and its tools and build UIs for mobile and desktop applications Key Features

- Unleash the power of the latest Qt 5.9 with C++14
- Easily compile, run, and debug your applications from the powerful Qt Creator IDE
- Build multi-platform projects that target Android, iOS, Windows, MacOS, Linux, and more

Book Description Qt 5.9 is an application development framework that provides a great user experience and develops full-capability applications with Qt Widgets, QML, and even Qt 3D. This learning path demonstrates the power and flexibility of the Qt framework for desktop application development and shows how you can write an application once and deploy it to multiple operating systems. It will address all the challenges while developing cross-platform applications with the Qt framework. This course will give you a better understanding of the Qt framework and tools to resolve serious issues such as linking, debugging, and multithreading. It will also upskill you by explaining how to create a to-do-style app and taking you through all the stages in building a successful project. You will build a suite of apps; while developing these apps, you'll deepen your knowledge of Qt Quick's layout systems, and see Qt 3D and widgets in action. The next project will be in the industrial and agricultural sectors: making sense of sensor data via a monitoring system.

Your apps should run seamlessly across devices and operating systems such as Android, iOS, Windows, or Mac, and be cost-effective by integrating with existing web technologies. You take the role of lead developer and prototype a monitoring system. In doing so, you'll get to know Qt's Bluetooth and HTTP APIs, as well as the Charts and Web Engine UI modules. These projects will help you gain a holistic view of the Qt framework. What you will learn

Install and configure the Qt Framework and Qt Creator IDE

Implement a rich user interface with QML

Learn the fundamentals of QTest and how to integrate unit testing

Create stunning UIs with Qt Widget and Qt Quick

Develop powerful, cross-platform applications with the Qt framework

Design GUIs with Qt Designer and build a library in it for UI previews

Build a desktop UI with widgets and Designer

Get familiar with multimedia components to handle visual input and output

Who this book is for

This book will appeal to developers and programmers who would like to build GUI-based applications. Knowledge of C++ is necessary and a basic familiarity with Qt would be helpful.

custom desktop app development: Visual Programming Unveiled: A Comprehensive Guide to Programming with Visual Interfaces Pasquale De Marco, 2025-07-14

Embark on a journey into the world of visual programming and discover the power to create interactive and dynamic applications without the need for complex coding. This comprehensive guidebook takes you from the basics of visual programming to advanced concepts, empowering you to turn your ideas into reality. Whether you're a complete beginner or have some programming experience, this book provides a solid foundation for building engaging applications using visual programming languages. Learn about the different types of visual programming languages, their benefits and applications, and the essential elements of visual programming. Delve into the intricacies of creating user interfaces, managing data, and implementing advanced programming techniques, such as object-oriented programming and exception handling. With step-by-step tutorials, real-world examples, and hands-on exercises, you'll gain a practical understanding of visual programming concepts and build a portfolio of impressive projects. Explore the exciting world of visual programming for mobile applications, dynamic websites, engaging desktop applications, and more. Discover how to create interactive mobile apps, design responsive websites, develop standalone desktop applications, and integrate multimedia elements seamlessly. Visual programming is not just a tool for creating software; it's a gateway to a world of creativity and innovation. This book inspires you to think outside the box and explore the limitless possibilities of visual programming. Unlock your potential to create amazing applications that make a difference and leave a lasting impact. Join us on this exciting journey into the realm of visual programming and unleash your creativity to build the applications of tomorrow. If you like this book, write a review!

custom desktop app development: Azure Active Directory for Secure Application Development Sjoukje Zaal, 2022-05-26

Develop secure applications using different features of Azure Active Directory along with modern authentication techniques and protocols

Key Features

- Confidently secure your Azure applications using the tools offered by Azure AD
- Get to grips with the most modern and effective authorization and authentication protocols
- Unlock the potential of Azure AD's most advanced features including Microsoft Graph and Azure AD B2C

Book Description

Azure Active Directory for Secure Application Development is your one-stop shop for learning how to develop secure applications using modern authentication techniques with Microsoft Azure AD. Whether you're working with single-tenant, multi-tenant, or line-of-business applications, this book contains everything you need to secure them. The book wastes no time in diving into the practicalities of Azure AD. Right from the start, you'll be setting up tenants, adding users, and registering your first application in Azure AD. The balance between grasping and applying theory is maintained as you move from the intermediate to the advanced: from the basics of OAuth to getting your hands dirty with building applications and registering them in Azure AD. Want to pin down the Microsoft Graph, Azure AD B2C, or authentication protocol best practices? We've got you covered. The full range of Azure AD functionality from a developer perspective is here for you to explore with confidence. By the end of this secure app development book, you'll have developed the skill set that so many organizations are clamoring for. Security is mission-critical, and after reading this book,

you will be too. What you will learn • Get an overview of Azure AD and set up your Azure AD instance • Master application configuration and the use of service principals • Understand new authentication protocols • Explore the Microsoft Identity libraries • Use OpenID Connect, OAuth 2.0, and MSAL to make sign-in fully secure • Build a custom app that leverages the Microsoft Graph API • Deploy Azure AD B2C to meet your security requirements • Create user flows and policies in Azure AD B2C Who this book is for If you are a developer or architect who has basic knowledge of Azure Active Directory and are looking to gain expertise in the application security domain, this is the book for you. Basic Azure knowledge and experience in building web applications and web APIs in C# will help you get the most out of this book.

custom desktop app development: InfoWorld , 1995-07-24 InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

custom desktop app development: Xamarin Mobile Application Development Dan Hermes, 2015-07-04 Xamarin Mobile Application Development is a hands-on Xamarin.Forms primer and a cross-platform reference for building native Android, iOS, and Windows Phone apps using C# and .NET. This book explains how to use Xamarin.Forms, Xamarin.Android, and Xamarin.iOS to build business apps for your customers and consumer apps for Google Play and the iTunes App Store. Learn how to leverage Xamarin.Forms for cross-platform development using the most common UI pages, layouts, views, controls, and design patterns. Combine these with platform-specific UI to craft a visually stunning and highly interactive mobile user experience. Use Xamarin.Forms to data bind your UI to both data models and to view models for a Model-View-ViewModel (MVVM) implementation. Use this book to answer the important question: Is Xamarin.Forms right for my project? Platform-specific UI is a key concept in cross-platform development, and Xamarin.Android and Xamarin.iOS are the foundation of the Xamarin platform. Xamarin Mobile Application Development will cover how to build an Android app using Xamarin.Android and an iOS app using Xamarin.iOS while sharing a core code library. SQLite is the database-of-choice for many Xamarin developers. This book will explain local data access techniques using SQLite.NET and ADO.NET. Build a mobile data access layer (DAL) using SQLite and weigh your options for web services and enterprise cloud data solutions. This book will show how organize your Xamarin code into a professional-grade application architecture. Explore solution-building techniques from starter-to-enterprise to help you decouple your functional layers, manage your platform-specific code, and share your cross-platform classes for code reuse, testability, and maintainability. Also included are 250+ screenshots on iOS, Android, and Windows Phone and 200+ C# code examples with downloadable C# and XAML versions available from Apress.com. This comprehensive recipe and reference book addresses one of the most important and vexing problems in the software industry today: How do we effectively design and develop cross-platform mobile applications?

custom desktop app development: Android Apps for Absolute Beginners Wallace Jackson, 2017-03-14 Get your first Android apps up and running with the help of plain English and practical examples. If you have a great idea for an Android app, but have never programmed before, then this book is for you. Android Apps for Absolute Beginners cuts through the fog of jargon and mystery that surrounds Android app development, and gives you simple, step-by-step instructions to get you started. This book teaches Android application development in language anyone can understand, giving you the best possible start in Android development. It provides clean, straightforward examples that make learning easy, allowing you to pick up the concepts without fuss. It offers clear code descriptions and layout so that you can get your apps running as soon as possible Although this book covers what's new in Android 7, it is also backwards compatible to cover some of the previous Android releases. What You'll Learn Download, install, and configure the latest software needed for Android app development Work efficiently using an integrated development environment (IDE) Build useful, attractive applications and get them working immediately Create apps with ease using XML markup and drag-and-drop graphical layout editors Use new media and graphics to skin your app so

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