Xamarin Mobile Application Development Cross Platform C And Xamarinforms Fundamentals

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Xamarin Cross-platform Application Development Microsoft Press Discover how to create cross platform apps for Android, iOS and UWP using Azure services and C# with Xamarin Forms. This book illustrates how to utilize Azure cloud storage for serving up Azure SQL DB data through Azure App Services. The book starts by setting up Xamarin and introducing Xamarin Forms and then covers the Azure Portal from a developer’s perspective and goes on to demonstrate how to build an Azure Service using Quickstart. You'll also see how to add Azure support to Xamarin Forms application. You'll review in detail how to build a Xamarin Form with Azure Client and modify an existing app to become a Xamarin Forms Client for Azure with offline synchronization. You then move on to third-party controls that speed up development. By the end of the book, you will be able to use Azure and Xamarin together and master how to use Azure Mobile Quickstarts, Azure SQL plumbing, database synchronization and Xamarin Forms. What You'll Learn Create a Xamarin Forms App and understand the Structure of a Xamarin Forms App. Navigate pages and use platform specific coding. Use images, ListView and the Azure Mobile App Quickstart to build a Service and Xamarin Forms app Modify an existing app to use Azure Client Libraries, understand offline storage with SQLite and incorporate offline synchronization Who This Book Is For Software developers new to Xamarin and/or Azure and for the developers who are familiar with both the technologies to use in mobile apps.
Hands-On Mobile Development with .NET Core Apress
This guide to Xamarin.Forms gives an introduction for developers that might be new to the field of cross-platform mobile app development. It also serves as a handy reference for the more advanced developers. The book contains 41 self-containing apps with 264 automatically extracted code snippets. With a copy of the book you get free access to the GitHub repository containing the workspace with all compiling solutions and source code. This not only lets you play with the examples contained in the book, but gives you early access to new demos for future book editions.
Xamarin.Forms Projects Packt Publishing Ltd
Develop powerful cross-platform applications with Xamarin About This Book Write native cross-platform applications with Xamarin Design user interfaces that can be shared across Android, iOS, and Windows Phone using Xamarin.Forms Practical cross-platform development strategies Who This Book Is For If you are a developer with experience in C# and are just getting into mobile development, this is the book for you. This book will give you a head start with cross-platform development and will be the most useful to developers who have experience with desktop applications or the web. What You Will Learn Apple's MVC design pattern The Android activity lifecycle Share C# code across platforms and call native Objective-C or Java libraries from C# Create a real web service back end in Windows Azure using SQL Azure as database storage Set up third-party libraries such as NuGet and Objective Sharpie in many different ways, and port a desktop .NET library to Xamarin Use Xamarin.Mobile for camera, contacts, and location In Detail Xamarin is a leading cross-platform application development tool used by top companies such as Coca-Cola, Honeywell, and Alaska Airlines to build apps. Version 4 features significant updates to the platform including the release of Xamarin.Forms 2.0 and improvements have been made to the iOS and Android designers. Xamarin was acquired by Microsoft so it is now a part of the Visual Studio family. This book will show you how to build applications for iOS, Android, and Windows. You will be walked through the process of creating an application that comes complete with a back-end web service and native features such as GPS location, camera, push notifications, and other core features. Additionally, you'll learn how to use external libraries with Xamarin and Xamarin.Forms to create user interfaces. This book also provides instructions for Visual Studio and Windows. This edition has been updated with new screenshots and detailed steps to provide you with a holistic overview of the new features in Xamarin 4. Style and approach This book offers a tutorial style approach to teach you the skills required to develop end-to-end cross-platform solutions with Xamarin.
Creating Mobile Apps with Xamarin.Forms Preview Edition 2 Independently Published
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?
Learn All about Xamarin - A Comprehensive Guide to Cross-Platform App Development Packt Publishing Ltd
XamarinBuilding Your First Mobile App with C# .NET and Xamarin, Xamarin for beginnersThe entire world is now surrounded by billions and trillions of mobile Tech which is inevitable. The major share of the development of mobile apps is taken by the Google's Android, Apple's iOS, and Microsoft's Windows. Every new learner or newbie in Mobile Development Domain finds himself in the dilemma of choosing the platform to start with. They are actually looking for a platform to execute or implement the test apps on something different from what it is intended for.Xamarin is one of the solutions to it which actually is meant for cross-platform mobile app development where you can build Android, iOS, and Windows native application using a single codebase. This single platform is C#. The apps developed using Xamarin performs almost similar to the native Platform applications.Working of XamarinXamarin has entirely converted the Android and iOS SDK to C# to make it more familiar to the developers. One can easily use the same codebase for both the platforms without the hassle of remembering the syntax of different languages all the time. Besides, the User Interface(UI) remains almost same. It has to be separately built for both the platforms and then has to be bound by the common codebase.There are actually two ways for building the User Interface. First one is using the original native methods to build the UI. Another one incorporates the use of Xamarin.Forms. These forms can be used to build UI for different platforms all at once and have almost 100% code sharing if these are chosen over Native UI Technology.After doing all the UI work comes the most challenging phase which is connecting the UI to the codebase. This connection can again be implemented using two code sharing approaches which are:1.Shared Project2.Portable Class Libraries(PCL)Xamarin.FormsXamarin provides developers two ways to build a mobile app. Either by using Xamarin.iOS and Xamarin.Android(main approach) or by using Xamarin.Forms which is a framework for simple apps and prototypes. Xamarin.Forms, the Visual Studio Library facilitates for rapid prototyping or building apps with few platform-specific functionalities. This makes Xamarin.Forms, the best fit, for apps considering code sharing more significant than custom UI. The developer need not design for each platform individually. With Xamarin.Forms, a single interface would be shared across platforms. Apps with some parts of the UI created using Xamarin.Forms and rest using native UI Toolkit can also be built using this approach.What Is Xamarin.Forms?Xamarin.Forms is a cross-platform natively backed UI toolkit abstraction that allows developers to easily create user interfaces that can be shared across Android, iOS, Windows, and Windows Phone.PerformanceXamarin apps are fully native so in xamarin you can enjoy fully native performance with shared code.Xamarin.iOS and Xamarin.Android (Separate UI)For Xamarin.iOS and Xamarin.Android, you have shared code base in C# .This business logic is shared across platforms and UI is separate for all platforms. This is separate UI approach. Xamarin.ios and Xamarin.Android give you 100% API coverage with benefits of .NET APIs. Anything you can do in Android or in iOS, you can do with Xamarin using C#.WindowsWindows already supports C# for development. So, it is also built in C# with native APIs.Xamarin.FormsXamarin.forms allow you more code sharing that you can also share application UI in all platforms.Included in Xamarin.FormsUI building blocks like pages, layouts, and controlsXAML-defined UIData bindingNavigationAnimation APIDependency ServiceMessaging CenterAdvantages of Xamarin.FormsNative appsShared Business LogicShared UIOne Xamarin development team require to develop apps for multiple platformsLess development time
Xamarin Cross-Platform Application Development - Second Edition Packt Pub Limited
Learn all about Xamarin - A Comprehensive Guide to Cross-Platform App Development "Learn all about Xamarin (C#): A Comprehensive Guide to Cross-Platform App Development" provides a step-by-step journey through the Xamarin framework, C# programming, and cross-platform app development concepts. With twelve chapters covering essential topics, readers will gain a strong foundation in Xamarin.Forms, Xamarin.iOS, and Xamarin.Android, enabling them to build native cross-platform apps with confidence. By exploring various features, APIs, and best practices, this book aims to empower readers to create robust, efficient, and user-friendly mobile applications across multiple platforms. The book covers the following: Chapter 1: Introduction to Xamarin and Cross-Platform Development Overview of Xamarin and its role in cross-platform app development. Advantages of using Xamarin for building native apps. Introduction to the Xamarin ecosystem: Xamarin.Forms, Xamarin.iOS, and Xamarin.Android. Setting up the development environment: installing Xamarin and necessary tools. Creating a "Hello, World!" app using Xamarin. Chapter 2: Getting Started with C# Introduction to C# programming language and its role in Xamarin development. Understanding C# syntax, variables, data types, and control structures. Working with classes, objects, and methods in C#. Handling exceptions and error handling in C#. Utilizing C# features for efficient coding in Xamarin. Chapter 3: Xamarin.Forms Essentials Introduction to Xamarin.Forms framework for cross-platform UI development. Building a user interface using XAML and code-behind in Xamarin.Forms. Understanding layouts and controls in Xamarin.Forms. Handling user input and events in Xamarin.Forms. Implementing navigation and page navigation in Xamarin.Forms. Chapter 4: Data Binding and MVVM Pattern in Xamarin.Forms Exploring data binding concepts and principles in Xamarin.Forms. Binding data between UI elements and the underlying data model. Implementing the Model-View-ViewModel (MVVM) architectural pattern in Xamarin.Forms. Working with data binding expressions and converters. Using data binding in complex scenarios and collection views. Chapter 5: Xamarin.iOS: Building Native iOS Apps Overview of Xamarin.iOS and its architecture. Setting up the development environment for Xamarin.iOS. Creating a user interface in Xamarin.iOS using Interface Builder and code. Accessing iOS-specific features and APIs in Xamarin.iOS. Testing, debugging, and deploying Xamarin.iOS apps. Chapter 6: Xamarin.Android: Building Native Android Apps Introduction to Xamarin.Android and its architecture. Configuring the development environment for Xamarin.Android. Designing user interfaces in Xamarin.Android using XML and code. Accessing Android-specific features and APIs in Xamarin.Android. Testing, debugging, and deploying Xamarin.Android apps. Chapter 7: Working with Device Features and APIs Accessing device sensors, such as GPS, camera, and accelerometer. Integrating location services and mapping functionality in Xamarin apps. Working with device storage, including reading and writing data. Implementing networking functionality and consuming RESTful APIs. Utilizing platform-specific features and APIs in Xamarin apps. Chapter 8:

Working with Databases and Data Persistence Chapter 9: Implementing Cross-Platform Native Features Chapter 10: Testing and Debugging Xamarin Apps Chapter 11: Publishing and Distribution of Xamarin Apps Chapter 12: Best Practices and Advanced Topics in Xamarin

Xamarin Cross-Platform Application Development Packt Publishing Ltd

This book is intended for .NET developers with any level of experience and who are interested in building native applications without the hassle of becoming Objective-C or Java experts. Although it will be beneficial to have some development experience, particularly in .NET, Learning Xamarin help even a novice developer get past the headaches of setting up and customizing their new development environment so they can move on to producing high-quality native applications quickly.

Mobile Development with .NET Packt Publishing Ltd

Quickly learn how to get the most out of the Visual Studio for Mac integrated development environment (IDE). Microsoft has invested heavily to deliver their very best development tools and platforms to other operating systems. Visual Studio for Mac is a powerful developer tool that reinforces Microsoft’s “mobile-first”, “cloud-first”, and “any developer, any platform, any device” strategy. With the author's guided expertise and extensive code samples, you will understand how to leverage the most useful tools in Visual Studio for Mac, the code editor, and the powerful debugger. You also will appreciate the author's guidance on collaborating with other team members using integrated tooling for the Git source control engine. Whether you are a Mac developer interested in cross-platform development or a Windows developer using a Mac, Beginning Visual Studio for Mac will quickly get you up to speed! What You'll Learn Prepare, configure, and debug in the Mac development environment Create cross-platform mobile apps for Android, iOS, and Windows with Xamarin and C# in Visual Studio for Mac Build cross-platform Web applications with .NET Core using Visual Studio for Mac Customize your productive and collaborative development environment Who This Book Is For Software developers using a Mac computer who want to build mobile or web applications that run on multiple operating systems

Learning Xamarin Studio Packt Publishing Ltd

Learn to build a simple data-driven mobile game application using the power of Xamarin.Forms, ASP.NET, the Web API, and SignalR with this short book. In it you will build a cross-platform mobile application that targets both iOS and Android, connect your app with your database using Entity Framework, and implement real-time syncing functionality using SignalR. Understanding Game Application Development starts by giving you an overview of the development tools, an installation guide, and a list of prerequisites. You will learn how to manage application flow, create your workspace, and set up your database. Next, you will see how to access data for handling CRUD operations and define the necessary API endpoints. Further, you will build a mobile application with Xamarin.Forms, both in iOS and in Android. You will also understand the deployment and testing process as well as how to build a real-time leader board using ASP.NET MVC and SignalR. Finally, you will understand how to publish your source code on GitHub from Visual Studio 2017. What You Will LearnUnderstand the basic concept and fundamentals of the technologies used for building the applicationsSet up your development environmentCreate a SQL database from scratch Implement a data access layerDefine REST service endpoints using the Web APIDeploy, test, and debug iOS and Android applicationsPush your source code to GitHubWho This Book Is For .NET developers who want to jump on mobile application development with Xamarin and learn with practical examples.

Xamarin Mobile Application Development Packt Publishing Ltd

Develop native applications for multiple mobile and desktop platforms including but not limited to iOS, Android, and UWP with the Xamarin framework and Xamarin.Forms Key FeaturesUnderstand .NET Core and its cross-platform development philosophy Build Android, iOS, and Windows mobile applications with C#, .NET Core, and Azure Cloud ServicesBring Artificial Intelligence capabilities into your mobile applications with Azure AIBook Description .NET Core is the general umbrella term used for Microsoft’s cross-platform toolset. Xamarin used for developing mobile applications, is one of the app model implementations for .NET Core infrastructure. In this book, you will learn how to design, architect, and develop highly attractive, maintainable, efficient, and robust mobile applications for multiple platforms, including iOS, Android, and UWP, with the toolset provided by Microsoft using Xamarin, .NET Core, and Azure Cloud Services. This book will take you through various phases of application development with Xamarin, from environment setup, design, and architecture to publishing, using real-world scenarios. Throughout the book, you will learn how to develop mobile apps using Xamarin, Xamarin.Forms and .NET Standard; implement a webbased backend composed of microservices with .NET Core using various Azure services including but not limited to Azure App Services, Azure Active Directory, Notification Hub, Logic Apps, and Azure Functions, Cognitive Services; create data stores using popular database technologies such as Cosmos DB, SQL and Realm. Towards the end, the book will help developers to set up an efficient and maintainable development pipeline to manage the application life cycle using Visual Studio App Center and Visual Studio Services. What you will learnImplement native applications for multiple mobile and desktop platformsUnderstand and use various Azure Services with .NET CoreMake use of architectural patterns designed for mobile and web applicationsUnderstand the basic Cosmos DB conceptsUnderstand how different app models can be used to create an app serviceExplore the Xamarin and Xamarin.Forms UI suite with .NET Core for building mobile applicationsWho this book is for This book is for mobile developers who wish to develop cross-platform mobile applications. Programming experience with C# is required. Some knowledge and understanding of core elements and cross-platform application development with .NET is required.

Xamarin Packt Publishing Ltd

Summary Xamarin in Action teaches you to build cross-platform mobile apps using Xamarin and C#. You'll explore all the layers of a Xamarin app, from design to deployment. By the end, you'll be able to build a quality, production-ready Xamarin app on iOS and Android from scratch with a high level of code reuse. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Rewriting the same app for iOS and Android is tedious, error-prone, and expensive. Microsoft's Xamarin drastically reduces dev time by reusing most application code—typically 70% or more. The core of your iOS and Android app is shared; you write platform-specific code only for the UI layer. And because Xamarin uses C#, your apps benefit from everything this modern language and the .NET ecosystem have to offer. About the Book Xamarin in Action teaches you to build cross-platform mobile apps using Xamarin and C#. You'll explore all the layers of a Xamarin app, from design to deployment. Xamarin expert Jim Bennett teaches you design practices that maximize code reuse and isolate device-specific code, making it a snap to incorporate the unique features of each OS. What's Inside Understanding MVVM to maximize code reuse and testability Creating cross-platform model and UI logic layers Building device-specific UIs Unit and automated UI testing Preparing apps for publication with user tracking and crash analytics About the Reader Readers should have some experience with C#. Mobile development experience is helpful, but not assumed. About the Author Jim Bennett is a Xamarin MYP, Microsoft MVP, and Senior Cloud Developer Advocate at Microsoft, specializing in Xamarin mobile apps. He's a frequent speaker at events all around the world, including Xamarin user groups and Xamarin and Microsoft conferences. He regularly blogs about Xamarin development at https://jimbobbennett.io. Table of Contents PART 1 - GETTING STARTED WITH XAMARIN Introducing native cross-platform applications with Xamarin Hello MVVM—creating a simple cross-platform app using MVVM MVVM—the model-view–view model design pattern Hello again, MVVM—understanding and enhancing our simple MVVM app What are we (a)waiting for? An introduction to multithreading for Xamarin apps PART 2 - BUILDING APPS Designing MVVM cross-platform apps Building cross-platform models Building cross-platform view models Building simple Android views Building more advanced Android views Building simple iOS views Building more advanced iOS views PART 3 - FROM WORKING CODE TO THE STORE Running mobile apps on physical devices Testing mobile apps using Xamarin UITest Using App Center to build, test, and monitor apps Deploying apps to beta testers and the stores

Xamarin Mobile Application Development John Wiley & Sons

Develop apps for the iPhone, iPad, and Apple wearables using Visual Studio for the Mac. Learn how to set up your development environment and emulators, and how to create adaptive user interfaces for various platforms. Expert Dawid Borycki guides you through the fundamentals of programming for Apple platforms (Model View Controller, Test Driven Development), navigation patterns, gesture handling, accessing user's location, and reading and consuming data from web services. After reading this book, you will be able to build native apps that look and feel like other apps built into iOS, watchOS, and tvOS, and have the skills that are in high demand in today’s market. If you are already programming C# apps for web or desktop, you will learn how to extend your skill set to Apple mobile, wearable, and smart TV platforms. What You'll Learn Build and implement native apps for Apple platforms Create adaptive, universal views and handle navigation between them Access user's location and handle touch input Consume data from web services Minimize app development time with C# Who This Book Is For Developers who are interested in mobile and device development, as well as experienced non-Apple developers who want to switch or extend their skill set to programming for Apple platforms

Xamarin Mobile Application Development for Android Createspace Independent Publishing Platform

A recipe-based practical guide to get you up and running with Xamarin cross-platform developmentAbout This Book- Gain the skills and expertise to create, test, and deploy native mobile applications in the three major mobile app stores that share up to 95% of the same code- Learn development techniques that will allow you to use and create custom layouts for each platform, cross-platform UI- Gain the knowledge needed to become more efficient in testing, deploying, and monitoring your applications, helping you through all stages of the software development life cycleWho This Book Is ForThis book is for mobile developers. You must have some basic experience of C# programming, but no previous experience with Xamarin is required. If you are just starting with C# and want to use Xamarin todevelop cross-platform apps effectively and efficiently, then this book is the right choice for you.What You Will Learn- Create and customize your cross-platform UI- Understand and explore cross-platform patterns and practices- Use the out-of-the-box services to support third-party libraries- Find out how to get feedback while your application is used by your users- Bind collections to ListView and customize its appearance with custom cells- Create shared data access using a local SQLite database and a REST service- Test and monitor your applicationsIn DetailYou can create native mobile applications using the Xamarin Forms platform for the three major platforms iOS, Android, and Windows Phone. The advantage of this is sharing as much code as you can, such as the UI, business logic, data models, SQLite data access, HTTP data access, and file storage across the three major platforms.This book provide recipes on how to create an architecture that will be maintainable, extendable, use Xamarin Forms plugins to boost productivity, customize your views per platforms, and use platform-specific implementations at runtime.We start with a simple creation of a Xamarin Forms solution with the three major platforms. We will then jump to XAML recipes and you will learn how to create a tabbed application page, and customize the style and behavior of views for each platform. Moving on, you will acquire more advanced knowledge and techniques while implementing views and pages for each platform and also calling native UI screens such as the native camera page.Further on, we demonstrate the power of architecting a cross-platform solution and how to share code between platforms, create abstractions, and inject platform-specific implementations. Next, you will utilize and access hardware features that vary from platform to platform with cross-platform techniques. We'll then show you the power of databinding offered by Xamarin Forms and how you can create bindable models and use them in XAML. You will learn how to handle user interactions with the device and take actions in particular events.With all the work done and your application ready, you will master the steps of getting the app ready and publishing it in the app store.Style and approachThis book will serve as a quick reference with a unique recipe-based approach that will engage you like never before as you create real-world cross-platform apps on your own.

Mastering Xamarin UI Development Apress

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.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.

Xamarin.Forms Projects Independently Published

Master the skills required to steer cross-platform applications from drawing board to app store(s) using Xamarin About This Book Develop your Xamarin development skills with this comprehensive guide on various patterns and features so you can create elegant and high-quality applications Create adaptive user interfaces on separate platforms without compromising the user experience and platform identity Implement application lifecycle management concepts to manage and finalize cross-platform projects and efficiently collaborate with others Who This Book Is For This book is ideal for those who want to take their entry–level Xamarin mobile development skills to the next level to become the go-to person within their organization. To fully understand the patterns and concepts described, you should possess a reasonable level of knowledge about the core elements of Xamarin and cross-platform application development with it. What You Will Learn Configure your environment for cross-platform projects with Xamarin Gain memory management skills to avoid memory leaks and premature code cycles while decreasing the memory print of your applications Employ asynchronous and parallel patterns to execute non-interactive and non-blocking processes Create and use SQLite databases for offline scenarios Integrate network resources with cross-platform applications Design and implement eye-catching and reusable UI components without compromising nativity in mobile applications Manage the application lifecycle of cross-platform development projects Distribute Xamarin applications through public or private channels In Detail The main goal of this book is to equip you with the required know-how to successfully analyze, develop, and manage Xamarin cross-platform projects using the most efficient, robust, and scalable implementation patterns. This book starts with general topics such as memory management, asynchronous programming, local storage, and networking, and later moves onto platform-specific features. During this transition, you will learn about key tools to leverage the patterns described, as well

as advanced implementation strategies and features. The book also presents User Interface design and implementation concepts on Android and iOS platforms from a Xamarin and cross-platform perspective, with the goal to create a consistent but native UI experience. Finally, we show you the toolset for application lifecycle management to help you prepare the development pipeline to manage and see cross-platform projects through to public or private release. Style and approach This is a comprehensive guide on various Xamarin features and patterns. Each topic is explained and demonstrated with code samples, which are revised in each section in an iterative manner and analyzed with available diagnostic tools to demonstrate the benefits of different patterns.

The Ultimate Guide to Cross-Platform App Development with Xamarin Packt Publishing Ltd

Learn the bare essentials needed to begin developing cross-platform, mobile apps using Xamarin.Forms. Apps can be easily deployed to Google Play or to the Apple App Store. You will gain insight on architecture and how to arrange your app's design, where to begin developing, what pitfalls exist, and how to avoid them. Also covered are expected new features in Xamarin.Forms 3.0, so you may be prepared ahead of time for what the next release brings. Xamarin.Forms Essentials provides a brief history of Xamarin as a company, including how their product has become one of the most-used, cross-platform technologies for enterprise applications and app development across the world. Examples in the book are built around a real-life example that is an actual app in Google Play and in the Apple App Store, and has thousands of downloads between iOS and Android. You will learn how an application is set up from scratch, and you will benefit from the author's hard-won experience and tips in addressing various development challenges. What You'll Learn Create cross-platform user interfaces from one code base for both iOS and Android See how a commercial application is built and then deployed for sale in the app stores Integrate your Xamarin.Forms applications with third-party, RESTful APIs Arrange application architecture to avoid pitfalls and optimize your design Get a heads-up on new features released as part of Xamarin.Forms 3.0 Choose appropriately between Xamarin.Forms and traditional Xamarin, depending upon your application needs and its goals Who This Book Is For Mobile app developers who are producing software for multiple platforms, including Google Android and Apple iOS. Readers should be familiar with Visual Studio either on Mac OS X or Windows, and have a working knowledge of C#.

Xamarin 4.x Cross-Platform Application Development Apress

A mobile applications development masterclass for .NET and C# developers Key FeaturesUncover the new features and capabilities of the .NET 5 framework in this updated and improved second editionOptimize the time required to develop highly performant cross-platform applicationsUnderstand the architectural patterns and best practices for mobile application developmentBook Description Are you a .NET developer who wishes to develop mobile solutions without delving into the complexities of a mobile development platform? If so, this book is a perfect solution to help you build professional mobile apps without leaving the .NET ecosystem. Mobile Development with .NET will show you how to design, architect, and develop robust mobile applications for multiple platforms, including iOS, Android, and UWP using Xamarin, .NET Core, and Azure. With the help of real-world scenarios, you'll explore different phases of application development using Xamarin, from environment setup, design, and architecture to publishing. Throughout the book, you'll learn how to develop mobile apps using Xamarin and .NET Standard. You'll even be able to implement a web-based backend composed of microservices with .NET Core using various Azure services including, but not limited to, Azure Active Directory, Azure Functions. As you advance, you'll create data stores using popular database technologies such as Cosmos DB and data models such as the relational model and NoSQL. By the end of this mobile application development book, you'll be able to create cross-platform mobile applications that can be deployed as cloud-based PaaS and SaaS. What you will learnDiscover the latest features of .NET 5 that can be used in mobile application developmentExplore Xamarin.Forms Shell for building cross-platform mobile UIsUnderstand the technical design requirements of a consumer mobile appGet to grips with advanced mobile development concepts such as app data management, push notifications, and graph APIsManage app data with Entity Framework CoreUse Microsoft's Project Rome for creating cross-device experiences with XamarinBecome well-versed with implementing machine learning in your mobile appsWho this book is for This book is for ASP.NET Core developers who want to get started with mobile development using Xamarin and other Microsoft technologies. Working knowledge of C# programming is necessary to get started.

Xamarin with Visual Studio Apress

Develop, test, and deliver fully-featured Android applications using Xamarin About This Book Build and test multi-view Android applications using Xamarin.Android Work with device capabilities such as location sensors and the camera A progressive, hands-on guide to develop stunning Android applications using Xamarin Who This Book Is For If you are a C# developer who wants to develop Android apps and enhance your existing skill set, then this book is ideal for you. Good working knowledge of C#, .NET, and object-oriented software development is assumed. What You Will Learn Build a multi-view, orientation-aware Android application with navigation Lay out content using the LinearLayout, RelativeLayout, and TableLayout layout managers Use a ListView (AdapterView) and Adapter to build a view that is populated from server data Consume REST web service to perform GET, UPDATE, DELETE operation Use Android SQLite for data persistence and caching Capture the current location of a device, determine the street address, and integrate with the map app Test, debug, and deploy an Android app In Detail Technology trends come and go, but few have generated the excitement, momentum, or long-term impact that mobile computing has. Mobile computing impacts people's lives at work and at home on a daily basis. Many companies and individual developers are looking to become a part of the movement but are unsure how to best utilize their existing skills and assets. The Xamarin suite of products provides new opportunities to those who already have a significant investment in C# development skills and .NET code bases, and would like to enter into this new, exciting world. This example-oriented guide provides a practical approach to quickly learn the fundamentals of Android app development using C# and Xamarin.Android. It will lead you through building an Android app step-by-step with steadily increasing complexity. Beginning with an overview of the Android and Xamarin platforms to provide you with a solid understanding of the underlying platform, we gradually walk through building and testing a Points of Interest Android app using C# and the Xamarin.Android product. You will learn to create ListView and add detail view to your Android application. You will handle application behaviors on orientation changes, before learning the different techniques to manage resources and layouts to support multiple screen sizes. You will then access a SQLite database in a cross-platform way and add location features to your application. Finally, you will add camera integration to your application and deploy your app to the various Android app stores. Style and approach An example-oriented, comprehensive guide to gain an understanding of both the Android and Xamarin platforms.

Beginning Xamarin Development for the Mac Packt Publishing Ltd

Discover how to streamline the creation of mobile applications for Android and iOS with Xamarin. For C# developers, this book is the most practical way yet to start mastering cross-platform development. In Detail Developing a mobile application for just one platform is becoming a thing of the past. Companies expect their apps to be supported on both iOS and Android, whilst leveraging the best native features of both. Xamarin's tools help solve this requirement by giving developers a single toolset to target both platforms "Xamarin Cross-platform Application Development" is a step-by-step guide for building professional applications for iOS and Android. The book walks you through building a chat application, complete with a backend web service and native features such as GPS location, camera, and push notifications. This book begins with iOS and Android application fundamentals, then moves on to sharing code, and eventually digs deeper into native functionality. By the end of the book, readers will have successfully built a cross-platform application ready for submitting to app stores. You will gain an in-depth knowledge about the concepts of building cross platform applications. "Xamarin Cross-platform Application Development" also covers native iOS and Android APIs, unit testing, building a real web service with Windows Azure, push notifications, interacting with the camera and GPS, leveraging Java and Objective-C libraries, and finally app store submission. Towards the end of the book you will feel confident in developing your own Xamarin applications. "Xamarin Cross-platform Application Development" will teach you everything you need to know to develop an end-to-end, cross-platform solution with Xamarin. What You Will Learn Familiarize yourself with Apple's MVC design pattern Understand the Android activity lifecycle Share C# code across platforms Implement a web service with Azure Mobile Services Deploy and debug your application on mobile devices Call native Objective-C or Java libraries from C# Use Xamarin.Mobile for camera, contacts, and location Submit your app to the Apple App Store and Google Play Downloading the example code for this book. You can download the example code files for all Packt books you have purchased from your account at http://www.PacktPub.com. If you purchased this book elsewhere, you can visit http://www.PacktPub.com/support and register to have the files e-mailed directly to you.

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Build apps for Android, iOS, macOS, and Windows using Microsoft's .NET Multi-platform App UI and Blazor Key FeaturesGet familiar with Microsoft's UI toolkit to build amazing interfaces for iOS, Android, Windows, and macOSBuild a cross-platform password manager based on the famous Windows app, KeePassExplore .NET MAUI development and Hybrid app development using BlazorBook Description An evolution of Xamarin.Forms, .NET Multi-platform App UI (.NET MAUI) is a cross-platform framework for creating native mobile and desktop apps with C# and XAML. Using .NET MAUI, you can develop apps that'll run on Android, iOS, macOS, and Windows from a single shared code-base. This step-by-step guide provides a comprehensive introduction to those who are new to .NET MAUI that will have you up to speed with app development using .NET MAUI in no time. The book begins by showing you how to develop a cross-platform application using .NET MAUI and then helps you build an app throughout the chapters. You'll gain all the knowledge needed to create a cross-platform application for Android, iOS, the mac OS, and Windows from a single shared code-base using .NET MAUI. As you advance, you'll get to grips with the entire application development lifecycle, from design and implementation through to deployment to the app store through the development of a password manager app using KeePassLib. The concluding chapters will teach you how to integrate the latest frontend technology into your app through .NET MAUI Blazor. By the end of this book, you'll have learned how to develop your own cross-platform applications using .NET MAUI. What you will learnDiscover the latest features of .NET 6 that can be used in mobile and desktop app developmentFind out how to build cross-platform apps with .NET MAUI and BlazorImplement device-specific features using .NET MAUI EssentialsIntegrate third-party libraries and add your own device-specific featuresDiscover .NET class unit test using xUnit.net and Razor components unit test using bUnitDeploy apps in different app stores on mobile as well as desktopWho this book is for This book is an entry-level .NET MAUI book for mobile developers interested in cross-platform application development with working experience of the .NET Core framework, as well as fresh or junior engineers who've just begun their career in mobile app development. Native application developers (desktop) or Xamarin developers who want to migrate to .NET MAUI will also benefit from this book. Basic knowledge of modern object-oriented programming language, such as C#, Java or Kotlin, is assumed.