Xamarin Crossplatform Development Cookbook

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Build Your First iOS App with Visual Studio 2019 and Xamarin**Cross Platform Development With Xamarin**

Xamarin Crossplatform Development Cookbook
Extensibility Essentials 2022 (source: Microsoft). To use Extensibility Essentials 2022, developers must first install the extensibility workload ("Visual Studio extension development") from the VS ...

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.

Master the skills required to develop cross-platform applications from drawing board to app store(s) using Xamarin About This Book Learn to deliver high-performance native apps that leverage platform specific acceleration, complied for native performance Learn development techniques that will allow you to use and create custom layouts for cross-platform UI Gain the knowledge needed to become more efficient in testing, deploying, and monitoring your applications Implement application life cycle management concepts to manage cross-platform projects Who This Book Is For Mobile application developers wanting to develop skills required to steer cross-platform applications using Xamarin. What You Will Learn Share C# code across platforms and call native Objective-C or Java libraries from C# Submit your app to the Apple App Store and Google Play 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 Create shared data access using a local SQLite database and a REST service Test and monitor your applications Gain memory management skills to avoid memory leaks and premature code cycles while decreasing the memory print of your applications Integrate network resources with cross-platform applications Design and implement eye-catching and reusable UI components without compromising on nativity in mobile applications 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 iOS, Android and Windows Phone, while leveraging the best native features on all three platforms. Xamarin's tools help ease this problem by giving developers a single toolset to target all three platforms. The main goal of this course is to equip you

with knowledge to successfully analyze, develop, and manage Xamarin cross-platform projects using the most efficient, robust, and scalable implementation patterns. Module 1 is a step-by-step guide to building real-world applications for iOS and Android. The module walks you through building a chat application, complete with a backend web service and native features such as GPS location, camera, and push notifications. Additionally, you'll learn how to use external libraries with Xamarin and Xamarin.Forms. Module 2 provide you recipes on how to create an architecture that will be maintainable, extendable, use Xamarin.Forms plugins to boost productivity. We start with a simp...

Master the skills required to develop cross-platform applications from drawing board to app store(s) using Xamarin About This Book Learn to deliver high-performance native apps that leverage platform specific acceleration, complied for native performance Learn development techniques that will allow you to use and create custom layouts for cross-platform UI Gain the knowledge needed to become more efficient in testing, deploying, and monitoring your applications Implement application life cycle management concepts to manage cross-platform projects Who This Book Is For Mobile application developers wanting to develop skills required to steer cross-platform applications using Xamarin. What You Will Learn Share C# code across platforms and call native Objective-C or Java libraries from C# Submit your app to the Apple App Store and Google Play 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 Create shared data access using a local SQLite database and a REST service Test and monitor your applications Gain memory management skills to avoid memory leaks and premature code cycles while decreasing the memory print of your applications Integrate network resources with cross-platform applications Design and implement eye-catching and reusable UI components without compromising on nativity in mobile applications 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 iOS, Android and Windows Phone, while leveraging the best native features on all three platforms. Xamarin's tools help ease this problem by giving developers a single toolset to target all three platforms. The main goal of this course is to equip you with knowledge to successfully analyze, develop, and manage Xamarin cross-platform projects using the most efficient, robust, and scalable implementation patterns. Module 1 is a step-by-step guide to building real-world applications for iOS and Android. The module walks you through building a chat application, complete with a backend web service and native features such as GPS location, camera, and push notifications. Additionally, you'll learn how to use external libraries with Xamarin and Xamarin.Forms. Module 2 provide you recipes on how to create an architecture that will be maintainable, extendable, use Xamarin.Forms plugins to boost productivity. We start with a simple creation of a Xamarin.Forms solution, customize the style and behavior of views for each platform. Further on, we demonstrate the power of architecting a cross-platform solution. Next, you will utilize and access hardware features that vary from platform to platform with cross-platform techniques. You will master the steps of getting the app ready and publishing it in the app store. The last module starts with general topics such as memory management, asynchronous programming, local storage, networking, and platform-specific features. You will learn about key tools to leverage the pattern and advanced implementation strategies. 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. After the completion of this course, you will learn a path that will get you up and running with developing cross-platform mobile applications and help you become the go-to person when it comes to Xamarin. Style and approach This course will serve as comprehensive guide for developing cross-platform applications with Xamarin with a unique approach that will engage you like never before as you create real-world cross-platform apps on your own.

If you are a developer with experience in C# and are just getting into mobile development, this is the book for you. If you have experience with desktop applications or the Web, this book will give you a head start on cross-platform development.

This second Preview Edition ebook, now with 16 chapters, is about writing applications for Xamarin.Forms, the new mobile development platform for iOS, Android, and Windows phones unveiled by Xamarin in May 2014. Xamarin.Forms lets you write shared user-interface code in C# and XAML that maps to native controls on these three platforms.

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?

Leverage Xamarin.Forms to build iOS and Android apps using a single, cross-platform approach. This book is the XAML companion to the C# guide Xamarin Mobile Application Development. You'll begin with an overview of Xamarin.Forms, then move on to an in-depth XAML (eXtensible Application Markup Language) primer covering syntax, namespaces, markup extensions, constructors, and the XAML standard. XAML gives us both the power of decoupled UI development and the direct use of Xamarin.Forms elements. This book explores the core of the Xamarin.Forms mobile app UI: using layouts and FlexLayouts to position controls and views to design and build screens, formatting your UI using resource dictionaries, styles, themes and CSS, then coding user interactions with behaviors, commands, and triggers. You'll see how to use XAML to build sophisticated, robust cross-platform mobile apps and help your user get around your app using Xamarin.Forms navigation patterns. Building Xamarin.Forms Mobile Apps Using XAML explains how to bind UI to data models using data binding and using the MVVM pattern, and how to customize UI elements for each platform using industry-standard menus, effects, custom renderers, and native view declaration. What You Will Learn Creat world-class mobile apps for iOS and Android using C# and XAML Build a UI decoupled from C# code and XAML Design UI layouts

such as FrameLayout, controls, lists, and navigation patterns Style your app using resource dictionaries, styles, themes, and CSS Customize controls to have platform-specific features using effects, custom renderers, and native views Who This Book Is For XAML and C# developers, architects, and technical managers as well as many Android and iOS developers

Over 80 hands-on recipes to unleash full potential for Xamarin in development and monetization of feature-packed, real-world Android apps About This Book Create a number of Android applications using the Xamarin Android platform Extensively integrate your Android devices with other Android devices to enhance your app creation experience A comprehensive guide packed with real-world scenarios and pro-level practices and techniques to help you build successful Android apps Who This Book Is For If you are a Xamarin developer who wants to create complete Android applications with Xamarin, then this book is ideal for you. No prior knowledge of Android development is needed, however a basic knowledge of C# and .NET would be useful. What You Will Learn Install and use Xamarin.Android with Xamarin Studio and Visual Studio Design an app's user interface for multiple device configurations Store and protect data in databases, files, and on the cloud Utilize lists and collections to present data to the user Communicate across the network using NFC or Bluetooth Perform tasks in the background and update the user with notifications Capture and play multimedia, such as video and audio, with the camera Implement In-App Billing and Expansion Files and deploy to the store In Detail Xamarin is used by developers to write native iOS, Android, and Windows apps with native user interfaces and share code across multiple platforms not just on mobile devices, but on Windows, Mac OS X, and Linux. Developing apps with Xamarin.Android allows you to use and re-use your code and your skills on different platforms, making you more productive in any development. Although it's not a write-once-run-anywhere framework, Xamarin provides native platform integration and optimizations. There is no middleware; Xamarin.Android talks directly to the system, taking your C# and F# code directly to the low levels. This book will provide you with the necessary knowledge and skills to be part of the mobile development era using C#. Covering a wide range of recipes such as creating a simple application and using device features effectively, it will be your companion to the complete application development cycle. Starting with installing the necessary tools, you will be guided on everything you need to develop an application ready to be deployed. You will learn the best practices for interacting with the device hardware, such as GPS, NFC, and Bluetooth. Furthermore, you will be able to manage multimedia resources such as photos and videos captured with the device camera, and so much more! By the end of this book, you will be able to create Android apps as a result of learning and implementing pro-level practices, techniques, and solutions. This book will ascertain a seamless and successful app building experience. Style and approach This book employs a step-by-step approach to Android app creation, explained in a conversational and easy-to-follow style. A wide range of examples are listed to ensure a complete understanding of how to deploy competent apps on the Android market.

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

This book is your path to getting started with Xamarin Forms. It covers a lot of hot mobile features such as augmented reality (AR) and machine learning (ML) as well as more basic topics, giving you tips and advice on what development environment to strive for.