# Xamarin Mobile Application Development

Cross-Platform C# and Xamarin.Forms Fundamentals

BRIDGE THE GAP BETWEEN .NET, IOS AND ANDROID FOR YOUR MOBILE APPS

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apress.

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**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 Building Xamarin. Forms Mobile Apps Using XAML Dan Hermes, Nima Mazloumi, 2019-02-12 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 Create world class mobile apps for iOS and Android using C and XAML Build a XAML UI decoupled from the C code behind 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 Xamarin Mobile Application <u>Development</u> Daniel Hermes, 2015-05-24 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 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 **Xamarin: Cross-Platform Mobile Application Development** Jonathan Peppers, George Taskos, Can Bilgin, 2016-08-31 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 Xamarin with Visual Studio Alessandro Del Sole, 2022-06-14 Learn how to build cross platform mobile apps from a single shared codebase KEY FEATURES Covers fundamental and advanced aspects of multi platform mobile development Revisit the fundamentals of NET and C to create modern native apps more quickly Check out tips and advice on getting started as a successful mobile developer DESCRIPTION For any mobile developer it's clear that Xamarin knowledge is vital thanks to the reintroduction of NET MAUI This book provides the reader with complete hands on experience in designing cross platform mobile applications with Xamarin C and NET The book

discusses the importance of cross platform mobile app development and the benefits of learning Xamarin The book delivers a quick lesson on C and Visual Studio to implement all of the knowledge gained in this book into your first mobile application In the second half of the book you ll learn to start from scratch using Xamarin and create mobile apps in C It explains how to utilise Visual Studio as the development environment design the user interface using the XAML markup language organise common controls into layouts and create multi page applications with navigation and various pages This includes creating reusable resources such as styles and templates and the use of local and remote databases for data manipulation In addition the book offers expert advice on the requirements of a standard mobile application such as handling network connection battery level and safeguarding data in the device s secure storage WHAT YOU WILL LEARN Learn every aspect of Xamarin to create cross platform mobile applications Refresh NET C and Visual Studio skills required for mobile development Build UI with XAML views and layouts including navigation Use reusable resources data oriented coding multimedia support and debug code Explore advanced programming patterns and ways to improve performance Tips and answers to help you land a job as a mobile developer WHO THIS BOOK IS FOR This book is intended for beginners aspiring mobile developers NET users Visual Studio users and application developers eager to design and build mobile apps compatible with numerous platforms This book will also refresh your knowledge of NET and C so you can begin Xamarin development rapidly TABLE OF CONTENTS 1 The importance of mobile app development 2 Xamarin and Microsoft in the mobile app market 3 Introducing NET and Visual Studio 4 The C programming language 5 Building apps with Xamarin and Xamarin Forms 6 Organizing the User Interface with layouts 7 Understanding common views 8 Pages and navigation 9 Resources and Data Binding 10 Brushes Shapes and Media 11 Managing the application lifecycle 12 Working with Web API 13 Working with Native API 14 Finding a job 15 Succeeding as a Mobile App Developer Handbook of Research on Software Quality Innovation in Interactive Systems Cipolla-Ficarra, Francisco Vicente, 2021-03-19 The inclusion of experts in communicability in the software industry has allowed timeframes to speed up in the commercialization of new technological products worldwide However this constant evolution of software in the face of the hardware revolution opens up a host of new horizons to maintain and increase the quality of the interactive systems following a set of standardized norms and rules for the production of interactive software Currently we see some efforts towards this goal but they are still partial solutions incomplete and flawed from the theoretical as well as practical points of view If the quality of the interactive design is analyzed it is left to professionals to generate systems that are efficient reliable user friendly and cutting edge The Handbook of Research on Software Quality Innovation in Interactive Systems analyzes the quality of the software applied to the interactive systems and considers the constant advances in the software industry. This book reviews the past and present of information and communication technologies with a projection towards the future along with analyses of software software design phrases to use and the purposes for software applications in interactive systems This book is ideal for students

professors researchers programmers analysists of systems computer engineers interactive designers managers of software quality and evaluators of interactive systems C# 7 and .NET Core: Modern Cross-Platform Development Mark J. Price, 2017-03-24 Modern Cross Platform Development About This Book Build modern cross platform applications with NET Core Get up to speed with C and up to date with all the latest features of C 7 Start creating professional web applications with ASP NET Core Who This Book Is For This book is targeted towards readers who have some prior programming experience or have a science technology engineering or mathematics STEM background and want to gain a solid foundation with C and to be introduced to the types of applications they could build and will work cross platform on Windows Linux and macOS What You Will Learn Build cross platform applications using C 7 and NET Core Explore ASP NET Core and learn how to create professional web applications Improve your application s performance using multitasking Use Entity Framework Core and find out how to build code first databases Master object oriented programming with C to increase code reuse and efficiency Familiarize yourself with cross device app development using the Universal Windows Platform and XAML Query and manipulate data using LINQ Protect your data by using encryption and hashing In Detail If you want to build powerful cross platform applications with C 7 and NET Core then this book is for you First well run you through the basics of C as well as object oriented programming before taking a quick tour through the latest features of C 7 such as tuples pattern matching out variables and so on After quickly taking you through C and how NET works well dive into the NET Standard 1 6 class libraries covering topics such as performance monitoring debugging serialization and encryption The final section will demonstrate the major types of application that you can build and deploy cross device and cross platform In this section well cover Universal Windows Platform UWP apps web applications mobile apps and web services Lastly well look at how you can package and deploy your applications so that they can be hosted on all of today s most popular platforms including Linux and Docker By the end of the book you ll be armed with all the knowledge you need to build modern cross platform applications using C and NET Core Style and approach This book takes a step by step approach and is filled with exciting projects and fascinating theory It uses three high impact sections to equip you with all the tools you ll need to build modern cross platform **Xamarin.Forms Essentials** Gerald Versluis, 2017-12-01 Learn the bare essentials applications using C and NET Core 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 C# 12 and .NET 8 - Modern Cross-Platform Development Fundamentals Mark J. Price, 2023-11-14 An accessible guide for beginner to intermediate programmers to the concepts real world applications and latest features of C 12 and NET 8 with hands on exercises using Visual Studio 2022 and Visual Studio Code Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the latest additions to C 12 the NET 8 class libraries and Entity Framework Core 8 Create professional websites and services with ASP NET Core 8 and Blazor Build your confidence with step by step code examples and tips for best practices Book DescriptionThis latest edition of the bestselling Packt series will give you a solid foundation to start building projects using modern C and NET with confidence You ll learn about object oriented programming writing testing and debugging functions and implementing interfaces You ll take on NET APIs for managing and querying data working with the fi lesystem and serialization As you progress you ll explore examples of cross platform projects you can build and deploy such as websites and services using ASP NET Core This latest edition integrates NET 8 enhancements into its examples type aliasing and primary constructors for concise and expressive code You ll handle errors robustly through the new built in guard clauses and explore a simplified implementation of caching in ASP NET Core 8 If that s not enough you ll also see how native ahead of time AOT compiler publish lets web services reduce memory use and run faster You ll work with the seamless new HTTP editor in Visual Studio 2022 to enhance the testing and debugging process You ll even get introduced to Blazor Full Stack with its new unified hosting model for unparalleled web development flexibility What you will learn Discover C 12 s new features including aliasing any type and primary constructors Try out the native AOT publish capability for ASP NET Core 8 Minimal APIs web services Build rich web experiences using Blazor Full Stack Razor Pages and other ASP NET Core features Integrate and update databases in your apps using Entity Framework Core models Query and manipulate data using LINQ Build and consume powerful services using Web API and Minimal API Who this book is for This book is for beginners as well as intermediate level C and NET programmers who have worked with C in the past and want to catch up with the changes made in the last few years Prior exposure to C or NET is not a prerequisite A general understanding of programming will help you to work through the book more comfortably though the content is suitable for those completely new to

programming If you already have some C and NET skills and want to focus on developing practical apps you can pick up Mark's other NET book Apps and Services with NET 8 instead C# 11 and .NET 7 - Modern Cross-Platform **Development Fundamentals** Mark J. Price, 2022-11-08 Publisher's Note Microsoft will stop supporting NET 7 from May 2024 The newer 8th edition of the book is available that covers NET 8 end of life November 2026 with C 12 and EF Core Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the newest additions to C 11 the NET 7 class libraries and Entity Framework Core 7 Create professional websites and services with ASP NET Core 7 and Blazor Build your confidence with step by step code examples and tips for best practices Book DescriptionExtensively revised to accommodate the latest features that come with C 11 and NET 7 this latest edition of our guide will get you coding in C with confidence You ll learn object oriented programming writing testing and debugging functions implementing interfaces and inheriting classes Next you ll take on NET APIs for performing tasks like managing and guerying data working with the filesystem and serialization As you progress you ll also explore examples of cross platform projects you can build and deploy such as websites and services using ASP NET Core Instead of distracting you with unnecessary graphical user interface code the first eleven chapters will teach you about C language constructs and many of the NET libraries through simple console applications Having mastered the basics you ll then start building websites web services and browser apps By the end of this book you ll be able to create rich web experiences and have a solid grasp of object oriented programming that you can build upon What you will learn Build rich web experiences using Blazor Razor Pages the Model View Controller MVC pattern and other features of ASP NET Core Write test and debug functions Query and manipulate data using LINQ Integrate and update databases in your apps using Entity Framework Core models Build and consume powerful services using the latest technologies including Web API and Minimal API For NET 6 developers C 11 can be used with NET 6 including features like raw string literals EF Core 7 targets NET 6 so you can benefit from its new features like ExecuteUpdate and ExecuteDelete for more efficient data modifications Who this book is for This book is primarily for beginners but intermediate level C and NET programmers who have worked with C in the past and want to catch up with the changes made in the past few years will also find plenty of useful information in it Prior exposure to C or NET is not a prerequisite but you should have a general understanding of programming before you jump in If you already have some C and NET skills and want to focus on developing apps we recommend that you pick up Mark's other NET book Apps and Services with NET 7 instead C# 8.0 and .NET Core 3.0 - Modern Cross-Platform Development Mark J. Price, 2019-10-31 Publisher's Note Microsoft stops supporting NET Core 3.1 in December 2022 The newer 7th edition of this book is available that covers NET 7 end of life May 2024 or NET 6 end of life November 2024 with C 11 and EF Core 7 Key FeaturesBuild modern cross platform applications with NET Core 3 0Get up to speed with C and up to date with all the latest features of C 8 0Start creating professional web applications with ASP NET Core 3 0Book Description In C 8 0 and NET Core 3 0 Modern Cross Platform Development Fourth

Edition expert teacher Mark J Price gives you everything you need to start programming C applications This latest edition uses the popular Visual Studio Code editor to work across all major operating systems It is fully updated and expanded with new chapters on Content Management Systems CMS and machine learning with ML NET The book covers all the topics you need Part 1 teaches the fundamentals of C including object oriented programming and new C 8 0 features such as nullable reference types simplified switch pattern matching and default interface methods Part 2 covers the NET Standard APIs such as managing and querying data monitoring and improving performance working with the filesystem async streams serialization and encryption Part 3 provides examples of cross platform applications you can build and deploy such as web apps using ASP NET Core or mobile apps using Xamarin Forms The book introduces three technologies for building Windows desktop applications including Windows Forms Windows Presentation Foundation WPF and Universal Windows Platform UWP apps as well as web applications web services and mobile apps What you will learnBuild cross platform applications for Windows macOS Linux iOS and AndroidExplore application development with C 8 0 and NET Core 3 0Explore ASP NET Core 3 0 and create professional web applicationsLearn object oriented programming and C multitaskingQuery and manipulate data using LINQUse Entity Framework Core and work with relational databasesDiscover Windows app development using the Universal Windows Platform and XAMLBuild mobile applications for iOS and Android using Xamarin FormsWho this book is for Readers with some prior programming experience or with a science technology engineering or mathematics STEM background who want to gain a solid foundation with C 8 0 and NET Core 3 0 The Fintech Entrepreneur's Guide Ashok Mittal, 2022-11-11 A Complete Overview of the Lending Space Within the Fintech Segment KEY FEATURES Creating a thriving Fintech platform for the lending industry that can last for the long run Realizing the importance of voice video and vernacular in financial technology Preparing investment pitches for different start ups in the financial technology industry DESCRIPTION For anyone interested in learning more about the Fintech business in general and the Lending space in particular this book is an excellent resource because it is based primarily on the author's practical experience rather than on theoretical frameworks This book provides insights into how to construct the technological platform and craft a vision document thus making it valuable for aspiring entrepreneurs who wish to launch careers in Fintech whether in lending or otherwise That way they ll understand how to present their proposal to potential investors in a better way New grads looking to break into the Fintech business can also benefit from this guide as it will help them understand the sector and prepare them for the rigors of the hiring process Leaders at the highest level of an organization can also learn from this book as it contains numerous examples of actual problems and solutions that have been tried and tested in the real world Ultimately this book is for anyone with any connection to the Fintech industry WHAT YOU WILL LEARN Use this book as a manual to ensure your endeavors are successful and within calculated risks Includes Fintech definitions terminologies and the evolution of Fintech Assess the technology landscape and availability of various tools for your digital Fintech Uncover every technical

aspect to strengthen your Fintech platform Expert tips for pitching a Fintech idea to investors Complete knowledge of investors availability at different start up stages WHO THIS BOOK IS FOR This guide will be helpful for aspiring business owners C suite executives and other decision makers who want to shape their fintech company in the right direction In addition it will be helpful for recent college grads interested in pursuing a job in the financial technology industry TABLE OF CONTENTS 1 Introduction to Fintech 2 Evolution of Fintech 3 Fintech in Lending Space 4 Building a Secured Tech Stack 5 The Three Vs of Fintech 6 The Investment Pitch 7 Epiloque C# 9 and .NET 5 - Modern Cross-Platform Development Mark J. Price, 2020-11-10 Publisher's Note Microsoft stopped supporting NET 5 in May 2022 The newer 8th edition of the book is available that covers NET 8 end of life November 2026 with C 12 and EF Core 8 Purchase of the print or Kindle book includes a free PDF eBook Key Features Explore the newest additions to C 9 the NET 5 class library Entity Framework Core and Blazor Strengthen your command of ASP NET Core 5 0 and create professional websites and services Build cross platform apps for Windows macOS Linux iOS and Android Book DescriptionIn C 9 and NET 5 Modern Cross Platform Development Fifth Edition expert teacher Mark J Price gives you everything you need to start programming C applications This latest edition uses the popular Visual Studio Code editor to work across all major operating systems It is fully updated and expanded with a new chapter on the Microsoft Blazor framework The book s first part teaches the fundamentals of C including object oriented programming and new C 9 features such as top level programs target typed new object instantiation and immutable types using the record keyword Part 2 covers the NET APIs for performing tasks like managing and querying data monitoring and improving performance and working with the file system async streams serialization and encryption Part 3 provides examples of cross platform apps you can build and deploy such as websites and services using ASP NET Core or mobile apps using Xamarin Forms The best type of application for learning the C language constructs and many of the NET libraries is one that does not distract with unnecessary application code For that reason the C and NET topics covered in Chapters 1 to 13 feature console applications In Chapters 14 to 20 having mastered the basics of the language and libraries you will build practical applications using ASP NET Core Model View Controller MVC and Blazor By the end of the book you will have acquired the understanding and skills you need to use C 9 and NET 5 to create websites services and mobile apps What you will learn Build your own types with object oriented programming Query and manipulate data using LINQ Build websites and services using ASP NET Core 5 Create intelligent apps using machine learning Use Entity Framework Core and work with relational databases Discover Windows app development using the Universal Windows Platform and XAML Build rich web experiences using the Blazor framework Build mobile applications for iOS and Android using Xamarin Forms Who this book is forThis book is best for C and NET beginners or programmers who have worked with C in the past but feel left behind by the changes in the past few years This book doesn t expect you to have any C or NET experience however you should have a general understanding of programming Students and professionals with a science

technology engineering or mathematics STEM background can certainly benefit from this book Mastering Xamarin UI Development Steven F. Daniel, 2018-08-31 Learn how to build stunning maintainable cross platform mobile application user interfaces using C 7 with the power of both the Xamarin and Xamarin Forms frameworks Key Features Build effective native and cross platform user interfaces using the Xamarin frameworks for iOS and Android as well as Xamarin Forms Maximize the testability flexibility and overall quality of your Xamarin mobile apps Step by Steps quide that is packed with real world scenarios and solutions to build professional grade mobile apps and games for the iOS and Android platforms using C 7 Book Description This book will provide you with the knowledge and practical skills that are required to develop real world Xamarin and Xamarin Forms applications You ll learn how to create native Android app that will interact with the device camera and photo gallery and then create a native iOS sliding tiles game You will learn how to implement complex UI layouts and creating customizable control elements based on the platform using XAML and C 7 code to interact with control elements within your XAML ContentPages You ll learn how to add location based features by to your apps by creating a LocationService class and using the Xam Plugin Geolocator cross platform library that will be used to obtain the current device location Next you ll learn how to work with and implement animations and visual effects within your UI using the PlatformEffects API using C code At the end of this book you ll learn how to integrate Microsoft Azure App Services and use the Twitter APIs within your app You will work with the Razor Templating Engine to build a book library HTML5 solution that will use a SQLite net library to store update retrieve and delete information within a local SQLite database Finally you will learn how to write unit tests using the NUnit and UITest frameworks What you will learn Build native and cross platform apps for both iOS and Android using the Xamarin and Xamarin Forms platform using C 7 Implement and customize different user interface layouts and Animations within your application and use the PlatFormEffects API to change appearance of control elements Understand the MVVM architectural pattern and how to implement this with your apps Build a NavigationService class to enable navigation between your ViewModels as well as Implementing Data Binding to control elements within your XAML pages and ViewModels Work with the Razor Templating Engine to create Models and Razor Pages that communicate with an SQLite database Build a LocationService class to incorporate location based features within your cross platform apps to display the user's current location by creating a custom cross platform map control and handle location tracking updates Work with the Microsoft Azure App Services Platform and Implement Social networking features within your app using the Twitter API Unit Testing your Xamarin Forms apps using the NUnit and UITest Frameworks Who this book is for This book is intended for readers who have experience using at least the C 6 0 programming language and interested in learning how to create stunning native and cross platform user interfaces for the iOS and Android platforms using the Xamarin and Xamarin Forms frameworks using C 7 **Building End-to-End Apps with C# 11 and .NET 7** Arun Gupta, 2023-11-28 Learn how to use C 11 to build apps for any platform from the ground up KEY FEATURES Discover the

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