# Xamarin Forms

## Chapter 1: Introduction to Xamarin and Xamarin Forms

* Overview of Xamarin Ecosystem Native vs Forms
* Xamarin Forms Setting up Development Environment Visual Studio, Android SDKs
* Creating First Xamarin Forms Project
* Xamarin Forms Understanding Shared vs .NET Standard Projects
* Xamarin Forms Architecture Overview Abstractions and Platforms

## Chapter 2: XAML and UI Design

* Xamarin Forms Understanding XAML Syntax and Markup
* Xamarin Forms Layouts AbsoluteLayout, FlexLayout
* Xamarin Forms Layouts StackLayout, Grid
* Xamarin Forms Views Label, Entry
* Xamarin Forms Views Image, ListView
* Xamarin Forms Views CollectionView, Button
* Xamarin Forms Customizing Styles and Themes
* Xamarin Forms Creating Reusable UI with ContentView and DataTemplates

## Chapter 3: Navigation and Page Management

* Xamarin Forms Pages ContentPage, NavigationPage
* Xamarin Forms Pages TabbedPage
* Xamarin Forms Pages MasterDetailPage FlyoutPage
* Xamarin Forms Push and Pop Navigation Stack
* Xamarin Forms Modal Pages and Parameters Passing
* Xamarin Forms Shell Navigation
* Xamarin Forms Navigation using MVVM Commands

## Chapter 4: Data Binding and MVVM Pattern

* Xamarin Forms Introduction to MVVM Architecture
* Xamarin Forms Two Way, One Way
* Xamarin Forms INotifyPropertyChanged and ObservableCollection
* Xamarin Forms Command Binding and EventToCommand
* Xamarin Forms Creating ViewModels and BindingContext

## Chapter 5: Dependency Services and Platform Specific Code

* Xamarin Forms Creating and Using Dependency Services
* Xamarin Forms Custom Renderers and Effects
* Xamarin Forms Using MessagingCenter for Communication
* Xamarin Forms Dependency Injection with Xamarin

## Chapter 6: Working with Data and Local Storage

* Xamarin Forms Working with SQLite in Xamarin Forms
* Xamarin Forms Data Persistence Preferences, SecureStorage
* Xamarin Forms REST API Integration using HttpClient and Refit
* Xamarin Forms Using Models and DTOs for Data Communication
* Xamarin Forms Offline Storage and Sync Techniques

## Chapter 7: ListView, CollectionView and Data Templates

* Xamarin Forms Differences between ListView and CollectionView
* Xamarin Forms Using Data Templates and ItemTemplates
* Xamarin Forms Handling ItemTapped and SelectionChanged
* Xamarin Forms Grouping, Filtering and Sorting
* Xamarin Forms Creating Custom Cells

## Chapter 9: Custom Controls and Advanced UI

* Xamarin Forms Creating Custom Views and Controls
* Xamarin Forms Advanced Styling with Visual State Manager
* Xamarin Forms Designing Responsive UI for Multiple Screen Sizes
* Xamarin Forms Using CarouselView and IndicatorView

## Chapter 13: Advance integration

* Xamarin Forms Firebase database and api
* Xamarin Forms Google map
* Xamarin Forms Push Notification

## Chapter 14: Deployment and Publishing

* Xamarin Forms App Icons, Splash Screens, and Permissions
* Xamarin Forms Platform-Specific Configuration AndroidManifest xml, Info plist
* Xamarin Forms Preparing APK and AAB for Android and IPA for iOS
* Xamarin Forms Publishing to Google Play Store and Apple App Store