Xamarin and iOS 8, Part 1 of 2: 64 Bit Support and UI

page 1

Meet the expert: Wallace McClure specializes in building applications that have large numbers of users and large amounts of data as well as user interface specific technologies such as AJAX, iPhone, and Android. He is a Microsoft MVP, ASPInsider, and a partner in Scalable Development, Inc. Wally has authored books on iPhone Programming with Mono/MonoTouch, Android Programming with Mono for Android, application architecture, ADO.NET and SQL Server, and finally AJAX.

Prerequisites: The course assumes knowledge of C# and .NET at an intermediate level. Some familiarity with OSX is helpful, but not required. A very basic understanding of XML is also required.

Runtime: 02:04:22

Course description: In this course, we will look at the architecture of iOS, how xamarin is supporting 64 bits and what you need to do to update your applications. Next, we will look at the new features in UIKit. Some of these features include the new Xamarin Designer for iOS, AutoLayout and new features added to notifications, and many other enhancements.

Course outline:

IOS 8 Architecture
- Introduction
- Apple iOS
- Major 64-Bit Changes
- ILP32 & LP64
- Impact on Apps
- Apple Hardware
- iOS Adoption
- Apple Requirements
- Xamarin.iOS
- Xamarin Unified API
- Defaults
- Summary

IOS 8 Architecture Continued
- Introduction
- Splits
- Components
- New Data Types
- Upgrade Apps
- Demo: New Unified API
- Demo: API Migration
- Demo: Troubleshooting
- Other Changes
- Images
- Icons
- Summary

UI Kit Intro
- Introduction
- Current Status of iOS
- Current Devices
- Current Supported Screen Sizes
- Problem
- Current Version Distribution
- App Icon Images
- Startup Screen
- Demo: Startup & Images
- Summary

Design Surface
- Introduction
- Xib
- Xcode Integration
- Storyboards
- Size Classes
- Constraints
- AutoLayout with the Designer
- Constraint Toolbar
- Creating Constraints
- Little Things with Designer
- Demo: iOS Designer
- Demo: Constraints
- Summary

Create UI Programmatically
- Introduction
- Programmatically UI
- Historical Requirements
- Apple Way
- FluentLayout
- Methods
- Demo: Programmatic UI
- Resources
- Summary

UI Alert View Controller
- Introduction
- UIKit
- UIAlertView
- UIAlertViewController
- UINavigationController
- UINavigationController in iOS8
- Demo: UIAlertController
- Demo: UINavigationController
- Notifications
- Notification Additions
- UIMutableUserNotificationAction
- Personal Lesson
- Demo: Notifications
- Summary

Popover
- Introduction
- UIPopoverController
- UIPopoverPresentationController
- UISearchController
- UISplitViewController
- Demo: Popover Controller
- Demo: Search Controller
- Demo: Split View Controller
- Summary