Xamarin iOS 7, Part 1 of 2: Introduction and Features

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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.

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Course description: In this course we will look at a number of new features for iOS 7. These include the visual transition between views and a number of other new features. We'll look at iBeacons and more options for background processes. iBeacons have the power to improve location management services by giving really fine control over location and the information at that location. The Background processing feature has been designed for the mobile environment and takes into account power management issues.

Course outline:

Introduction
- Introduction
- Introduction to iOS 7
- Device Support
- Statistics
- UI - User Features
- UI Redesign
- Views
- Text Kit
- 64 Bit Support
- Multitasking
- Sprite Kit
- Game Controller Framework
- Game Center Improvements
- Maps
- AirDrop
- Inter-App Audio
- Peer-to-Peer
- Safari Services
- Media Accessibility Framework
- JavaScript Core Framework
- Summary

iOS7 User Interface
- Introduction
- UIKit Framework
- UIKit Framework (cont'd)
- Xcode Features
- Existing Controls
- Controls
- iOS7 Design Surface
- Summary

View Controller
- Introduction
- View Controller Transitions
- During the Transition
- UIView Animation Enhancements
- Spring Animations
- Keyframe Animations
- UIKit Dynamics
- Primitive Behaviors
- Sequence for Adding
- Sequence for Adding (code)
- Summary

Text
- Introduction
- Dynamic Type
- Text Kit
- Text Kit Architecture
- Text Storage & Attributes
- Summary

Background Download
- Introduction
- Multitasking
- iOS Background Tasks
- Backgrounding Session in iOS7
- NSUrlSessionDelegate
- Summary

iBeacons
- Introduction
- Multipeer Connectivity
- Multipeer Connectivity Phases
- iBeacons
- Summary

Maps and Barcodes
- Introduction
- Maps
- Barcodes/QR codes
- Summary

Text to Speech
- Introduction
- Text To Speech
- Summary

Core Motion
- Introduction
- CoreMotion (iPhone 5s only)
- Summary

Xamarin Studio Enhancements
- Introduction
- CoreMotion Addendum
- Summary