iOS Development Using MonoTouch 5

page 1

Meet the expert: Michael Bluestein is a technical writer for Xamarin working on articles and examples focused on MonoTouch and Mono for Android. He is also author of the book "Learning MonoTouch, A Hands-On Guide to Building iOS Applications with C# and .NET." A former Principal Software Engineer at Dassault Systemes Solidworks Corporation, he has developed software professionally since the early 1990s.

Prerequisites: The users should have a good working knowledge of programming with C#, .NET and Xcode 4 for Mac OSX.

Runtime: 08:38:26

Course description: This course introduces iOS development using MonoTouch. It explains the basics of how to construct applications with MonoTouch and examines the theory behind how MonoTouch works. After presenting some overview information needed to have a solid foundation for building iOS applications with MonoTouch, the course covers a variety of different areas commonly used in iOS development.

Course outline:

Overview of Monotouch
- Introduction
- What is MonoTouch
- What Scenarios Does it Support
- What is Not Supported
- Demo: MonoTouch
- Summary

Setting Things Up
- Introduction
- Installing Xcode
- Development Provisioning
- Installing MonoTouch
- Demo: Hello World Revisted
- Summary

Using the Development Tools
- Introduction
- Xcode
- Xcode Organizer
- Interface Builder
- Instruments
- iOS Simulator
- MonoDevelop
- Summary

ObjectiveC
- Introduction
- Introduction to Objective-C
- Objective-C Technologies
- Demo: Objective-C
- Summary

How Does MonoTouch Work
- Introduction
- How MonoTouch Works
- Demo: MonoTouch
- Summary

Intro To Common Controls
- Introduction
- Introduction to UIKit
- UIActionSheet
- Demo: UIActionSheet
- Summary

UIButton and UILabel
- Introduction
- UIButton Overview
- Demo: UIButton
- UILabel Overview
- Demo: UILabel
- Summary

UITextField and UISwitch
- Introduction
- UITextField Overview
- Demo: UITextField
- UITextView Overview
- Demo: UITextView
- UISwitch Overview
- Demo: UISwitch
- Summary

UISlider & UISegmented Control
- Introduction
- UISlider Control Overview
- Demo: UISlider Control
- UISegmented Control Overview
- Demo: UISegmented Control
- Summary

UIPicker, UIScroll and UIPage
- Introduction
- UIPickerView Overview
- Demo: UIPickerView
- UIScrollView Overview
- Demo: UIScrollView
- UIPage Control Overview
- Demo: UIPage Control
- Summary

UIWebView and UIProgressView
- Introduction
- UIWebView Overview
- Demo: UIWebView
- UIProgressView Overview
- Demo: UIProgressView
- Summary

Designing Touch Interfaces
- Introduction
- Designing Touch Interfaces
- Touch Events
- Demo: Touch Interfaces
- Summary

Gestures
- Introduction
- Gestures Overview
- Demo: Gestures
- Summary

Controllers
- Introduction
- Overview of MVC
- Model
- View
- Controller
- MVC with iOS and MonoTouch
- Views and the View Lifecycle
- Creating a Multi-View App
- Demo: Controllers
- Summary

Custom View
- Introduction
- Overriding LoadView
- Creating a Custom View
- Demo: Creating a Custom View
- Summary

Creating a Table Driven UI
- Introduction
- UITableView
- UITableViewController
- UITableViewCell
- Demo: UITableView
- Summary

Creating a Table Driven UI (2)
- Introduction
- Editing UITableView
- Moving Cells
- Using Tables with Navigation
- Demo: Editing UITableView
- Summary

TableView and Custom Cells
- Introduction
- Creating Master Detail App
- Tapping UI TextField
- Summary

Displaying Images
- Introduction
- Displaying Images Overview
- Demo: Displaying Images

(Continued on page 2)

iOS Development Using MonoTouch 5

page 2

• Summary

Playing Media
• Introduction
• Playing Media Overview
• Demo: Playing Media
• Summary

Address Book
• Introduction
• Using the Address Book
• Demo: Using the Address Book
• Summary

Sending Email
• Introduction
• Sending Email Overview
• Demo: Sending Email
• Summary

Using the Accelerometer
• Introduction
• Accelerometer Overview
• Demo: Accelerometer
• Summary

MapKit
• Introduction
• MapKit Overview
• Annotations
• Overlays
• Demo: MapKit
• Summary

Overlays
• Introduction
• Demo: Overlays
• Demo: Custom Overlay
• Summary

Location
• Introduction
• Location Services
• CoreLocation
• Background Location
• Location Example
• Background Location Example
• Demo: Location
• Summary

Twitter and Core Image
• Introduction
• iOS 5 Overview
• Twitter Integration
• Core Image
• Other New APIs
• Storyboards
• Online Resources
• Demo: Twitter
• Demo: Core Image
• Summary