

Windows Phone 7 Development Using VS 2010

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Course description: Windows Phone 7 is a new step for Microsoft for the mobile platform. This course will introduce the mobile OS and how easy it is to use the .NET knowledge to create applications. The course will cover many introductory aspects of developing applications for the Windows Phone 7. For instance how XAML is used for applications and GUI designs. Also the course will cover many other aspects including controls, user input and forms, working with data, layout and Metro Controls. The course will also cover phone resources such as the Camera, GPS and many other items. To wrap up the course, the publishing the application to the marketplace and hosting of advertisements are covered.

Course outline:

Intro to Windows Phone 7

- Introduction
- Phone 7.5 the device
- Phone Metro Design Theory
- What is a Red Thread?
- Metro as a Platform
- Panorama
- Metro as a platform?
- Architectural Overview
- System Architecture
- Demo: Explore App Architecture
- Summary

MVVM

- Introduction
- Model-View-ViewModel (MVVM)
- Why MVVM?
- Publishing Process
- Device Unlock for App. Dev.
- Getting the Tools
- Demo: Create a New Project
- Demo: Debug Your Project
- Demo: Mango Features
- Summary

Hardware

- Introduction
- App Hub
- Register The Phone
- Deploy to the Phone
- Select Deploy Apps
- Summary

Mango

- Introduction

- What's New with Mango
- What We Covered
- Summary

Anatomy of a Phone App

- Introduction
- Demo: Examine Constructor
- Demo: Add Controls
- Demo: Intellisense
- Demo: Add Events
- Demo: Add a Class for Events
- Demo: Add Custom Controls
- Demo: Set up a Namespace
- Demo: Test New App
- Summary

My First MVVM

- Introduction
- Demo: Create an MVVM App
- Demo: Add Model
- Demo: Add ViewModel
- Demo: Add View
- Summary

Animations

- Introduction
- View Animation Demo
- Demo: Basic / Double Animation
- Demo: Color Animation
- Demo: Triggers
- Summary

UXA / Building with Metro

- Introduction
- Demo: Metro Infrastructure
- Demo: Launch Emulator

- Summary

ApplicationBar

- Introduction
- Demo: ApplicationBar
- Demo: Add Resources
- Demo: MenuItems
- Demo: Add Events
- Summary

Panorama and Pivot

- Introduction
- Demo: Panorama Control
- Demo: Pivot Control
- Summary

Expression Blend

- Introduction
- Expression Blend from VS
- Demo: Expression Blend Basics
- Summary

Styles and Templates

- Introduction
- Demo: Work with a Style
- Demo: Edit a Template
- Demo: Explore a Style
- Demo: VisualStateManager
- Summary

Layout

- Introduction
- Demo: Display in a Grid
- Demo: Display in a Canvas
- Demo: Display using Margins
- Demo: Display w/StackPanel
- Demo: Display w/Listbox
- Summary

Navigation / Global Resources.

- Introduction

- Demo: Add Navigation
- Demo: Add Navigation Code
- Demo: Pass Data
- Demo: Global Resources
- Summary

Form Controls

- Introduction
- Demo: TextBlock
- Demo: TextBox
- Demo: PasswordBox/Button
- Demo: RadioButton
- Demo: CheckBox
- Summary

Input Scopes

- Introduction
- Overview: InputScopes
- Demo: Text / Number
- Demo: Default / URL / Telephone
- Summary

Other Controls

- Introduction
- Demo: ProgressBar
- Demo: WebBrowser
- Demo: UserControl
- Summary

Map Control

- Introduction
- Demo: Add Map Service Ref
- Demo: Add MapControl
- Demo: CredentialProvider
- Summary

Touch Controls

- Introduction

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- Overview: Touch Controls
- Demo: MultiTouch
- Demo: Gesture Support
- Demo: Test on a Device
- Summary

Async Model

- Introduction
- Async Model
- OneResult Model Code
- SearchResultsModel Code
- ObservableCollection Code
- Parse Results
- Summary

LINQ

- Introduction
- Demo: Add LINQ Support
- Demo: Build List
- Summary

Consuming Async Model

MVVM

- Introduction
- Create a ViewModel
- SearchResultsViewModel Code
- ObservableCollection Code
- Create a View
- Add User Control Code
- Test the App
- Summary

Isolated Storage

- Introduction
- Demo: Put Data in Storage
- Demo: Get Data from Storage
- Demo: Test the App
- Summary

Database

- Introduction
- Demo: Database Definitions
- Demo: Explore ToDo App
- Demo: How to Add Data
- Demo: How to Delete Data
- Summary

Application Life Cycle

- Introduction
- Lifecycle Events
- Lifecycle Terms
- Application Lifecycle Events
- Demo: Persist App State
- Summary

Settings

- Introduction
- Demo: Save / Get Settings
- Demo: Test with Settings
- Demo: Save / Get Objects
- Demo: Test with Objects
- Summary

Launchers

- Introduction
- Explore Launcher Project

- Demo: Email Task
- Demo: Marketplace Review Task
- Demo: Market Detail Task
- Demo: WebBrowser Task
- Demo: Bing Maps Task
- Demo: Media Player Task
- Demo: Phone Call task
- Demo: Save Phone Number Task
- Demo: View All Available Tasks
- Summary

Choosers

- Introduction
- Explore Choosers Project
- Demo: Camera Capture Task
- Demo: Phone Number Task
- Demo: Photo Chooser Task
- Demo: Email Chooser Task
- Summary

Sound and Media

- Introduction
- Explore Sound Demo
- Demo: Play Sound
- Demo: Play Video
- Summary

GPS Demo

- Introduction
- Overview: Assisted GPS
- Demo: Add Resources
- Demo: Add Map Control
- Demo: Add Tactile Feedback
- Demo: Add GeoCoordinateWatcher
- Demo: Add Other Variables
- Demo: Add Events
- Demo: Test GPS App
- Demo: Stop GPS
- Demo: Add Zoom and Reset
- Demo: Save State
- Summary

Accelerometer

- Introduction
- Overview: Accelerometer
- Demo: Add Variables
- Demo: Constructor
- Demo: Test the App
- Summary

Compass and Gyro

- Introduction
- Overview: Compass / Gyro
- Demo: Add Resources
- Demo: Add Compass Code
- Demo: Add Gyro Code
- Summary

User Data

- Introduction
- Overview: User Data

- Demo: DataTemplate/Converter
- Demo: View the UI
- Demo: Contacts Code
- Demo: ContactDetails Code
- Demo: Accounts Code
- Demo: Appointments Code
- Summary

Revenue Models

- Introduction
- Revenue Models
- Downloads - Free vs Trial
- Impressions - Paid vs Trial
- AdCenter
- Demo: AdCenter
- Demo: Add AdControl
- Demo: View AdCenter Ads
- Demo: Create an New AdUnit
- Summary

App Hub

- Introduction
- Explore App Hub Process
- Upload App to Marketplace
- Summary