SONDA. TRAINING

MS20485C: Advanced Windows Store App Development Using C#

Silver
Microsoft Partner
Cloud Platform

Microsoft

40 HORAS

INTRODUCTION

This course you will learn advanced programming practices and techniques that will help you develop Windows Store apps. In this course, you will learn how design and develop Windows Store apps, as well as implement advanced features, such as using location information, streaming media to external devices, and integrating with online services. You will also learn how to use Microsoft Visual Studio 2013 and Expression Blend tools.

AUDIENCE

This course is intended for professional developers who have one or more years of experience creating applications for a production environment and who are comfortable programming in C# and XAML to create Windows Store apps.

AT COURSE COMPLETION

After completing this course, students will be able to:

- Review basic Windows Store app concepts and how Windows Store apps integrate with the Windows 8.1 ecosystem.
- Explore the built-in WinRT animation library and storyboards, and apply transitions and transformations.
- Localize the Windows Store app UI and apply language-specific formatting to a multi-lingual app.
- Create and present a successful splash screen, and differentiate your app with branding.
- Use various storage mechanisms, choose a suitable caching strategy for their app, and use advanced file access methods.
- Work with custom and template controls, and create and consume a WinRT component.
- Print using the Printing API and explore the Play To API.
- Explore the Push Notification Service (WNS), and work with push notifications.
- Use the CameraCaptureUI API and the MediaCapture API.
- Create and consume background tasks.
- Discover sensors, test their availability, and handle sensor events and device availability, and enumerate devices and their capabilities and properties and use the capabilities.

PREREQUISITES

Before attending this course, students must have:

- 6 – 12 months experience programming in C#
- 3 – 6 months experience using Visual Studio 2013 (including experience using preview builds)

- 1 month of experience working on Windows Store apps

COURSE OUTLINE

Module 1: Windows Store App Essentials
- Review Windows Store App Essentials
- Review Windows Store App Essentials – Under the Hood

Module 2: Implementing Animations and Transitions
- Using Animations
- Working with Transitions and Transformations

Module 3: Implementing Globalization and Localization
- Working with Resource Files
- Implementing Culture-Specific Formatting

Module 4: Branding and a Seamless UI
- Branding
- Customizing the Splash Screen
- Branding Your App's UI

Module 5: Advanced Data Scenarios in a Windows Store App
- Windows Store App Storage Options
- Implementing Data Caching
- Advanced File Functionality

Module 6: Creating Reusable Controls and Components
- Working with Custom and Templated Controls
- Creating and Using WinRT Components

Module 7: Implementing Advanced Contract Scenarios.
- The Play To Contract
- The Print Contract
- Integrating Contacts and Calendars
- Support PDF files and screenshots
- Integrating Speech Synthesis

Module 8: The Windows Push Notification Service
- Introduction to The Push Notification Service
- Communicating with the WNS

Module 9: Capturing Media
- Using CameraCaptureUI to Capture Pictures, Videos or Audio
- Using MediaCapture to Capture Pictures, Video, or Audio

Module 10: Background Tasks
- Creating Background Tasks
- Using Background Tasks in a Windows Store App

Module 11: Working with Sensors and Devices
- Implementing Trial Functionality in a Windows Store App
- Implementing In-App Purchases
- Advertising in a Windows Store App

Module 12: Generating Revenue with Your Windows Store App
- Implementing Trial Functionality in a Windows Store App
- Implementing In-App Purchases
- Advertising in a Windows Store App

Module 13: Securing Windows Store App Data
- Managing Windows Authentication
- Managing Web Authentication
- Encryption in Windows Store Apps

Module 14: Tracing and Profiling Windows Store Apps
- Analyzing a Windows Store App
- Tracing a Windows Store App
- Profiling a Windows Store App