

# Essentials of Developing Windows Store Apps Using HTML5 and JavaScript (20481)

- **Formato do curso:** Presencial
- **Localidade:** Lisboa
- **Com certificação:** Microsoft Certified Solutions Developer (MCSD)
- **Data:** 10 Jul. 2019 a 23 Jul. 2019
- **Preço:** 1600€
- **Horário:** Pós-laboral - das 18h30 às 21h30
- **Nível:** Intermédio
- **Duração:** 35 horas

Neste curso, os formandos irão aprender as competências básicas de programação e técnicas necessárias ao desenvolvimento de Windows Store Apps. Serão consolidadas as competências de desenho e programação garantindo que os formandos se familiarizem e tirem o máximo proveito das seguintes ferramentas: Microsoft Visual Studio e Expression Blend.

## Destinatários

- Programadores com conhecimentos confortáveis em HTML5, JavaScript e CSS3
- Quem esteja interessado em fazer o exame 70-481

## Pré-requisitos

- Experiência em criação de aplicações
- Experiência em criação de aplicações cliente Windows
- Experiência em Visual Studio 2010 ou 2012
- Frequência no curso 20480B ou conhecimento equivalente

## Objectivos

- Descrever a plataforma e funcionalidades do Windows 8 e explorar as bases do interface de uma Windows App.
- Criar o layout e estrutura do interface de utilizador.

- Aplicar o padrão MVVM no desenho da aplicação.
- Implementar o AppBar e os controlos de layout.
- Utilizar templates para a criação do UI.
- Utilizar data binding para representar dados no UI.
- Trabalhar com ficheiros e streams.
- Desenhar e implementar o Process Lifetime Management (PLM).
- Gerir os cenários de navegação numa aplicação Windows Store App.
- Implementar Semantic Zoom.
- Desenhar e implementar contratos, tais como: Search, Share e Settings.
- Implementar tiles e toast notifications numa aplicação Windows Store App.
- Responder a eventos de mouse, teclado e touch, incluindo gestores.
- Instalar uma aplicação Windows Store App na Windows Store ou numa enterprise store.

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## Programa

### Overview of the Windows 8 Platform and Windows Store Apps

This module describes the Windows 8 platform and features, and explores the basics of a Windows Store app interface.

- Lessons Introduction to the Windows 8 Platform Windows 8 User Interface Principles WinRT and Language Projections
- Lab : Overview of the Windows 8 Platform and Windows Store Apps Explore Windows 8 Platform Explore a Windows Store App

### Single-Page Applications and the MVVM Design Pattern

This module describes the principles used for building single-page apps and how to apply the MVVM design pattern using JavaScript.

- Lessons Single-Page Applications The MVVM Design Pattern
- Lab : Single-Page Apps and the MVVM Design Pattern Paper Based Quiz

### Using WinJS

This module explains how to use WinJS to build Windows Store apps.

- Lessons The WinJS Library WinJS APIs
- Lab : Using WinJS Define the Data Namespace and Objects Use promises to load data asynchronously

### Implementing Layout using Windows 8 Built-In Controls

This module explains how to implement the AppBar and layout controls.

- Lessons Windows 8 Layout Controls Implementing WinJS Controls and Templates The AppBar Control Snap and Fill
- Lab : Implementing Layout using Windows 8 Built-In Controls Implement an AppBar Control Create

## Adaptive Views

### **Presenting Data**

This module explains how to use data binding to present data in the User Interface.

- Lessons Working with Data Presentation Controls The ListView Control
- Lab : Presenting Data Implement the ListView Control

### **Handling Files in Windows Store Apps**

This module explains how to handle files and streams in Windows Store Apps.

- Lessons Handling Files and Streams in Windows Store apps Working with File User Interface Components
- Lab : Handling Files in Windows Store Apps Write Data to the Notes File Read Data from the Notes File

### **Windows Store App Process Lifetime Management**

This module explains how to respond to application lifecycle events using Process Lifetime Management (PLM) and the PLM extensibility points provided by the Visual Studio 2012 templates.

- Lessons Process Lifetime Management Launching Windows Store Apps Implementing State Management Strategy
- Lab : Windows Store App Process Lifetime Management Explore the Different PLM States Implement State Management

### **Designing and Implementing Navigation in a Windows Store App**

This module explains how to handle navigation scenarios in a Windows Store app and how to implement Semantic Zoom.

- Lessons Handling Navigation in Windows Store apps Semantic Zoom
- Lab : Designing and Implementing Navigation in a Windows Store App Add Navigation to the App Implement Semantic Zoom

### **Implementing Windows 8 Contracts**

This module explains how to design and implement Windows 8 contracts such as Search, Share and Settings.

- Lessons Designing for Charms and Contracts The Search Contract The Share Contract Managing App Settings and Preferences
- Lab : Implementing Windows 8 Contracts Implement the Search Contract Implement the Share Contract Adding a New Setting to the Settings Pane

### **Implementing Tiles and User Notifications**

This module explains how to implement tiles and toast notifications in a Windows Store App.

- Lessons Implementing Tiles, Live Tiles, Secondary Tiles, and Badge Notifications Implementing Toast Notifications

- Lab : Implementing Tiles and User Notifications Enable Live Tile Functionality in the Main Tile Add Secondary Tile Functionality

### **Designing and Implementing a Data Access Strategy**

This module explains how to implement various data access scenarios for Windows Store apps.

- Lessons Evaluating Data Access Strategies Working with Remote Data
- Lab : Designing and Implementing a Data Access Strategy Paper Based Quiz

### **Responding to Mouse and Touch**

This module explains how to respond to mouse, keyboard and touch events, including gestures.

- Lessons Working with Mouse Events Working with Gesture Events
- Lab : Responding to Mouse and Touch Implement Mouse Events Implement Gesture Events

### **Planning for Windows Store App Deployment**

This module explains how to deploy Windows Store apps to the Windows Store or an enterprise store.

- Lessons The Windows Store App Manifest Windows Store App Certification Windows 8 Enterprise App Deployment