

SharePoint 2013 Developer, Part 07 of 15: Client Side Code

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Meet the expert: Tim McCarthy is a senior solutions architect with Perficient who designs and builds highly scalable, layered web, desktop, and mobile applications utilizing the latest Microsoft platforms and technologies. His expertise covers a wide range of Microsoft technologies including SharePoint/Office 365, Office Apps, Windows Phone, Windows 8, Azure, .NET Framework (ASP.NET, VSTO, Workflow, WCF, WPF), SQL Server, Active Directory, MS Exchange development, and Service Oriented Architecture (SOA) applications. Tim holds multiple Microsoft certifications and is a former Microsoft MVP in Solutions Architecture. He is the author of several books, has developed presentations for the Microsoft Developer Network (MSDN), and has written articles for SQL Server Magazine and Windows and .NET Magazine. He has been a featured speaker at conferences, user groups, and code camps worldwide. Before becoming an application developer, Tim was an officer in the United States Marine Corps.

Prerequisites: This course assumes that students have some Web development background and some experience using Visual Studio 2012.

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Course description: With the advent of SharePoint as a hosted service via SharePoint Online, and also the increasing frequency of IT managers to not want custom code deployed to their SharePoint farms, the client object model has become very important to SharePoint developers. In SharePoint 2013, Microsoft beefed up its web service coverage of almost all of the features available from the browser, and also beefed up the client object model as a proxy to cover all of these web service operations. In addition to providing managed libraries for the .NET framework, Silverlight, Windows Phone, and JavaScript, Microsoft has also exposed the same operations as REST web services with OData support so clients on different platforms (such as non-windows platforms) can easily integrate with SharePoint data. After this you will be able to understand the nuances of both the client object model as well as the REST API that SharePoint provides.

Course outline:

Client Object Model

- Introduction
- Client Object Model
- Improvements
- Client Object Model Overview
- Summary
- Windows Phone
- Demo: Windows Phone List App
- Demo: Data Binding
- Demo: Running an App
- Summary

Using Client Object Model

- Introduction
- Client Object Model
- Demo: Client Object Model
- Demo: Web
- Context
- ClientRuntimeContext.Load<T>
- Execute Query
- Demo: Loading Lists
- Demo: Executing Queries
- Lambda Expressions
- Demo: Lambda Expressions
- Demo: Updating from CSOM
- Filtering with LINQ
- ClientContext.LoadQuery
- Demo: Filtering with LINQ
- Demo: LoadQuery
- Summary

JavaScript

- Introduction
- JavaScript
- JavaScript Differences
- Demo: JavaScript
- Demo: Adding an Item
- Summary

Rest API

- Introduction
- REST API
- Demo: REST API
- Demo: Getting Single Items
- OData Protocol
- Demo: OData
- Demo: Filtering
- Demo: Sorting
- Summary

Windows Phone

- Introduction