SharePoint 2013 Developer, Part 14 of 15: BCS

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.

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

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Course description: The main capability of Business Connectivity Services (BCS) in SharePoint 2013 is to expose line of business (LOB) data as external content types. Once defined, then then BCS allows the creation of lists that use the external content types which then have all of the rich goodness of standard SharePoint lists. The external data can be anything from database sources to WCF web services or even OData REST web services. After this course, you will understand the nuances of BCS and how to create external content types using both SharePoint Designer 2013 and Visual Studio 2013. You will also learn how to consume WCF web services as well as REST web services that use the OData protocol.

Course outline:

Business Connectivity Services
- Introduction
- Business Connectivity Service
- What BCS Does
- Concepts
- Security/Connection Management
- Demo: Looking at Secure Store
- Summary

Tooling
- Introduction
- Tooling
- Tooling-cont-
- Demo: Creating External Conte
- Adding Behavior
- Adding Behavior-cont-
- Demo: Adding Behavior
- Filters
- External Data Column
- Demo: Adding external data
- Search and Profile Pages
- Summary

VisualStudio
- Introduction
- Business Data Connectivity Model
- Migrating Declarative Models
- Demo: Creating Visual Studio
- Summary

Consuming Web Pages
- Introduction
- Consuming Web Services
- REST API
- REST API (cont)
- OData Protocol
- Consuming OData Sources
- Rest and OData Demo
- connect OData Demo (cont.)
- connect BCD model Demo (cont.)
- Summary