

6464A - Visual Studio® 2008: ADO.NET 3.5 2 day course

This two day developer course is designed to provide participants with the knowledge and skills to access and modify data by using ADO.NET 3.5.

Outcomes

- Insert, update, and delete data by using ADO.NET Command objects.
- Implement transactions to control data integrity and concurrency.
- Define and use a DataSet for retrieving data.
- Use a DataSet to update a database.
- Use a DataSet as a local cache in an occasionally connected environment.
- Define LINQ queries for selecting data from an in-memory data structure.
- Use LINQ to SQL to query data in a database.
- Use LINQ to SQL to modify data and save changes to the database.
- Explain how to use the ADO.NET Entity Framework to map a database schema to a logical business model.
- Use the ADO.NET Entity Framework to query and manage data.
- Explain how Synchronization Services supports occasionally-connected solutions.
- Use Synchronization Services to download data from a SQL Server database.
- Use Synchronization Services to upload data to a SQL Server database.

Prerequisites

Participants should have intermediate experience developing applications by using previous versions of Microsoft Visual Studio.

Audience

This course is intended for application developers who know how to create applications in Visual Studio 2005 or 2008.

Outline

Getting Started with ADO.NET 3.5

- Introduction to ADO.NET 3.5
- Connecting to a Database and Retrieving Data
- Best Practices for Managing Connections and Performing Queries

Modifying Data by Using ADO.NET Commands

- Inserting, Updating and Deleting Data
- Managing Data Integrity and Concurrency

Querying and Maintaining Data by Using DataSets

- Creating and Using a DataSet to Retrieve Data
- Updating a Database by Using a DataSet
- Using a DataSet in an Occasionally Connected Environment

Querying and Maintaining Data by Using LINQ

- Querying In-Memory Data by Using LINQ Query Expressions
- Retrieving Data by Using LINQ to SQL
- Modifying Data by Using LINQ to SQL

Implementing an Entity Model by Using the ADO.NET Entity Framework

- Creating an Entity Data Model by Using the ADO.NET Entity Framework
- Querying and Modifying Data by Using the ADO.NET Entity Framework

Building Occasionally Connected Solutions by Using Synchronisation Services

- Understanding Microsoft Synchronisation Services
- Downloading Data by Using Synchronisation Services
- Uploading Data by Using Synchronisation Services

Dates

It is anticipated that this course will be held in Darwin in November, 2009.

Location

Crimson Innovations
Unit 3
6 Catterthun Street
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(see www.crimson.com.au/contact_us.htm for details)