

ASP.NET: Using Visual C# .NET, ADO.NET, and XML

5 day course

Overview

You already know how to write simple, static Web pages using HTML and perhaps Cascading Style Sheets and client-side JavaScript code. Now you are ready to create dynamic Web pages using the latest Microsoft server-side technology ASP.NET. You will create ASP.NET Web pages that dynamically display content, display, manipulate, and modify data in a relational database, and display, manipulate, and modify XML data. Prerequisites

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To ensure your success, it is required that you first take the following Systematix courses or have equivalent knowledge: Object-Oriented Programming: Principles

- .NET Framework: Introduction
- HTML 4.01: Level 1
- HTML 4.01: Level 2

Knowledge of Visual C# .NET, or prior experience with Visual Basic, Visual C++, is also required. Prior experience with ASP Classic (2.0 or 3.0) is helpful, but not required. Knowledge of XML basics is also helpful. Knowledge of SQL is also recommended, though not required.

Target student

Programmers at any skill level interested in writing ASP.NET applications.

Course Content:

Writing Basic ASP.NET Pages

- Write a Simple ASP.NET Web Page
- Output Content and Redirect to a Different Page
- Pass User Information Between Pages
- Store and Retrieve Data Using a Cookie
- Perform Browser Detection
- Transfer Processing

Increasing Code Separation and Modularity

- Separate Code From Content with HTML Controls
- Implement a Postback Form
- Increase Code Separation with a Code-behind File
- Increase Modularity with a User Control

Creating Web Forms with Web Controls

- Create a Web Form Using ASP.NET Web Controls
- Create Grouped Elements with List Controls
- Display Data with a Repeater Control
- Display Data with a DataList Control
- Display Data with a DataGrid Control
- Verify User Input with Validation Controls
- Rotate Banner Ads with the Ad Rotator Control
- Create a Calendar Using a Calendar Control

Accessing Databases with ADO.NET

- Display Data from a Database
- Display Data From a Database Using Web Controls
- Customize Databound Results Using Style Sections
- Customize Databound Results Using Templates
- Modify Data with SQL Commands

Manipulating Data with ADO.NET DataSets

- Create a DataSet with Multiple Tables
- Display Data from Related Tables
- Manipulate Data in a DataGrid Control
- Modify DataSet Records and Merge

Programming XML Documents with ASP.NET

- Access and Display an XML Document
- Validate an XML Document Using a Schema
- Search an XML Document for Specific Information
- Edit an XML Document
- Write XML Documents to Disk

Converting and Transforming XML Data with ASP.NET

- Write Data From a DataSet to an XML Document
- Create Nested XML from a DataSet Object
- Read Data into a DataSet from an XML Document
- Transform an XML Document
- Output XSLT Results Using the XML Control

Architecting and Configuring an ASP.NET Application

- Configure an ASP.NET Application
 - Configure ASP.NET Error Tracing
 - Manage Application State
 - Preserve Session State
 - Cache Page Output
 - Cache a User Control
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