

MS 2310C - Developing Web Applications Using Microsoft Visual Studio 2008

Description: This five-day instructor-led course will teach introductory-level Web developers the fundamentals of Web application development and best practices for Microsoft Web development technologies, including ASP.NET 3.5, ASP.NET AJAX Extensions, and Silverlight. This course focuses on using the Microsoft Visual Studio 2008 development environment and the Microsoft .NET Framework 3.5 to create a Web application that delivers dynamic content to a Web site.

Days: 5

Prerequisites: This course is intended for introductory-level Web developers who have knowledge of Hypertext Markup Language (HTML) or Dynamic HTML (DHTML), along with some knowledge of a scripting language such as Visual Basic Scripting Edition or Microsoft JScript. This course is also appropriate for Microsoft Visual Basic 6.0, Microsoft Visual Basic for Applications (VBA) or classic ASP developers who want to learn ASP.NET 3.5 and other Microsoft Web development technologies.

Audience: This course is intended for introductory-level Web developers who have knowledge of Hypertext Markup Language (HTML) or Dynamic HTML (DHTML), along with some knowledge of a scripting language such as Visual Basic Scripting Edition or Microsoft JScript.

Module 1: Overview of the Microsoft .NET Framework

This module describes the key features of the Microsoft .NET Framework and ASP.NET.

Lessons

- Introduction to the .NET Framework
- Overview of ASP.NET
- Overview of the Lab Application
- Resources

Module 2: Creating Web Applications by Using Microsoft Visual Studio 2008 and Microsoft .NET-Based Languages

This module explains how to create a Web application by using Visual Studio 2008. It also describes how to create a component by using Visual Basic or C#.

Lessons

- Overview of Visual Studio 2008
- Creating an ASP.NET Web Application Project
- Overview of the Microsoft .NET-Based Languages
- Creating a Component by Using Visual Studio 2008

Lab : Creating Web Applications by Using Microsoft Visual Studio 2008 and Microsoft .NET-Based Languages

Module 3: Creating a Microsoft ASP.NET Web Form

This module describes how to create a Microsoft ASP.NET Web Form that contains server controls and uses a master page.

Lessons

- Creating Web Forms
- Adding Server Controls to a Web Form
- Creating Master Pages

Lab : Creating a Microsoft ASP.NET Web Form

Module 4: Adding Code to a Microsoft ASP.NET Web Form

This module explains how to add functionality to server controls that are on an ASP.NET Web form.

Lessons

- Implementing Code-Behind Pages
- Adding Event Procedures to Web Server Controls
- Handling Page Events

Lab : Adding Functionality to a Web Application

Module 5: Tracing in Microsoft ASP.NET Web Applications

This module explains how to view runtime information about a Web application by using the Trace and Debug objects.

Lessons

- Tracing and the Trace Object

- Remote Debugging

Lab : Tracing in Microsoft ASP.NET Web Applications

Module 6: Validating User Input

This module explains how to validate user input by using validation controls.

Lessons

- Overview of User Input Validation
- Validation Controls
- Page Validation

Lab : Validating User Input

Module 7: Creating and Implementing User Controls

This module explains how to create and implement a user control.

Lessons

- Adding User Controls to an ASP.NET Web Form
- Creating User Controls

Lab : Creating and Implementing User Controls

Module 8: Accessing Data with Microsoft ADO.NET and Visual Studio 2008

This module explains how to access data by using Microsoft ADO.NET 3.5 and the built-in data access tools available in Visual Studio 2008.

Lessons

- Overview of ADO.NET
- Connecting to a Database
- Accessing Data
- Accessing Multiple Tables

Lab : Accessing Data with Microsoft ADO.NET and Visual Studio 2008

Module 9: Accomplishing Complex Data Access Tasks

This module explains how to call stored procedures from an ASP.NET Web application. It also covers how to access data from a database by using LINQ to SQL.

Lessons

- Overview of Stored Procedures

- Calling Stored Procedures
- Data Access with LINQ to SQL

Lab : Accomplishing Complex Data Access Tasks

Module 10: Reading and Writing XML Data

This module explains how to access and manipulate data that was stored by using Extensible Markup Language (XML).

Lessons

- Overview of XML Architecture in ASP.NET
- XML and the DataSet Object
- Managing XML Data
- Accessing XML Data by Using the XML Web Server Control

Lab : Reading XML Data

Module 11: Creating an ASP.NET AJAX Application

This module explains how to create and extend an ASP.NET AJAX application.

Lessons

- Introduction to ASP.NET AJAX
- Creating an ASP.NET AJAX Application by Using the ASP.NET AJAX Extensions
- Extending an Application by Using the ASP.NET AJAX Control Toolkit

Lab : Creating an ASP.NET AJAX Application

Module 12: Delivering Dynamic Content with Microsoft Silverlight

This module explains how to create a Microsoft Silverlight-based application that delivers dynamic content.

Lessons

- Overview of Microsoft Silverlight
- Creating Silverlight-Based Applications with Visual Studio 2008

Lab : Delivering Dynamic Content with Microsoft Silverlight

Module 13: Consuming and Creating XML Web Services

This module explains how to call a Web service from an ASP.NET Web application and incorporate the returned data into a Web application.

Lessons

- Overview of Using XML Web Services
- Calling an XML Web Service
- Creating an XML Web Service

Lab : Consuming and Creating XML Web Services

Module 14: Managing State

This module explains how to store ASP.NET Web application and session data by using a variety of methods.

Lessons

- State Management
- Application and Session Variables
- Cookies and Cookieless Sessions

Lab : Storing Application and Session Data

Module 15: Configuring, Optimizing, and Deploying a Microsoft ASP.NET Web Application

This module explains how to configure and deploy an ASP.NET Web application.

Lessons

- Implementing the Cache Object
- ASP.NET Output Caching
- Configuring an ASP.NET Web Application
- Deploying an ASP.NET Web Application

Lab : Configuring, Optimizing, and Deploying a Microsoft ASP.NET Web Application

Module 16: Securing a Microsoft ASP.NET Web Application

This module explains how to secure an ASP.NET Web application by using a variety of technologies, including authentication and authorization.

Lessons

- Web Application Security Overview
- Windows-Based Authentication
- Forms-Based Authentication

Lab : Securing a Microsoft ASP.NET Web Application

Upcoming Classes

Jun 18, 2012 - Jun 22, 2012
Jul 23, 2012 - Jul 27, 2012
Aug 13, 2012 - Aug 17, 2012
Sep 17, 2012 - Sep 21, 2012
Oct 29, 2012 - Nov 02, 2012
Nov 19, 2012 - Nov 23, 2012
Dec 17, 2012 - Dec 21, 2012