

Visual Studio 2008: ASP.NET 3.5

Course GWE6463A0: Two days; Instructor-Led
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Introduction

This two-day instructor-led course provides students with the knowledge and skills to create a fully functional Web application by using ASP.NET 3.5.

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Audience

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

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At Course Completion

After completing this course, students will be able to:

- Explain how to create dynamic Web pages by using ASP.NET.
- Manage state, handle requests, and improve accessibility by using the features of ASP.NET.
- Configure an ASP.NET application by using .config files
- Create a user interface on an ASP.NET page by using standard Web server controls.
- Create a user control and a custom server control and add them to an ASP.NET page.
- Access and manipulate data from different sources by using ADO.NET 3.5.
- Access and manipulate data from Windows Communication Foundation services or Web services.
- Present data to the user by placing data-bound controls on an ASP.NET page.
- Improve page responsiveness by using the ASP.NET AJAX controls.
- Interact with the user, access services, and access the AJAX client-side library by using client scripts.
- Find and eliminate bugs in an ASP.NET application.
- Deploy an ASP.NET application to a production Web server.
- Write pages that adapt to the capabilities of mobile devices.
- Utilize controls that adapt to the capabilities of mobile devices.

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Prerequisites

Before attending this course, students should have intermediate experience developing applications by using previous versions of Microsoft Visual Studio at level 200.

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Course Outline

Module 1: Getting Started with ASP.NET 3.5

This module explains how to build and configure a simple ASP.NET application.

Lessons

- Building Dynamic Web Pages with ASP.NET 3.5
- ASP.NET 3.5 Features
- Configuring ASP.NET Applications

Lab: Creating and Configuring an ASP.NET 3.5 Application

- Creating an ASP.NET Application
- Configuring Session State
- Configuring Caching

After completing this module, students will be able to:

- Explain how to create dynamic Web pages by using ASP.NET.
- Manage state, handle requests, and improve accessibility by using the features of ASP.NET.
- Configure an ASP.NET application by using .config files

Module 2: Implementing a User Interface with ASP.NET Server Controls

This module explains how to implement a dynamic user interface by using ASP.NET controls.

Lessons

- Consuming Controls to Interact with Users
- Creating Custom Controls

Lab: Consuming and Creating ASP.NET Server Controls

- Creating a User Interface by Using Web Server Controls in an ASP.NET Form
- Creating User Controls and Custom Server Controls

After completing this module, students will be able to:

- Create a user interface on an ASP.NET page by using standard Web server controls.
- Create a user control and a custom server control and add them to an ASP.NET page.

Module 3: Displaying and Manipulating Data in ASP.NET 3.5

This module explains how to display and manipulate data from any source in an ASP.NET application.

Lessons

- Accessing Data by Using ADO.NET 3.5
- Accessing Data from Services
- Rendering Data in Web Controls

Lab: Displaying and Manipulating Data in ASP.NET 3.5

- Accessing Data from an XML File as a Data Source
- Consuming Data from a Web Service
- Displaying and Updating Data by Using Data-Bound Controls

After completing this module, students will be able to:

- Access and manipulate data from different sources by using ADO.NET 3.5.
- Access and manipulate data from Windows Communication Foundation services or Web services.
- Present data to the user by placing data-bound controls on an ASP.NET page.

Module 4: Creating Responsive Pages by Using Client-Side Technologies

This module explains how to create pages that respond rapidly to user requests.

Lessons

- Creating Partial Page Updates by Using AJAX
- Scripting Actions on the Web Client

Lab: Creating Responsive Pages by Using Client-Side Technologies

- Implementing Partial Page Updates by Using AJAX Controls
- Accessing a Web Service by Using a Client-Side Script

After completing this module, students will be able to:

- Improve page responsiveness by using the ASP.NET AJAX controls.
- Interact with the user, access services, and access the AJAX client-side library by using client scripts.

Module 5: Debugging and Deploying ASP.NET Applications

This module explains how to deploy a reliable, robust Web application to a Web server.

Lessons

- Troubleshooting and Debugging ASP.NET Applications
- Deploying Completed ASP.NET Applications

Lab: Debugging and Deploying ASP.NET Applications

- Debugging an ASP.NET Application
- Deploying an ASP.NET Application

After completing this module, students will be able to:

- Find and eliminate bugs in an ASP.NET application.
- Deploy an ASP.NET application to a production Web server.

Module 6: Writing ASP.NET Applications for Mobile Devices

This module explains how to ensure that mobile device users can access all the functionality of a Web site.

Lessons

- Rendering Pages According to Device Capabilities
- Creating Pages with Mobile Web Controls

Lab: Adding Support for Mobile Devices

- Adding a Mobile Web Form to Your Application
- Displaying Data by Using Mobile Web Controls

After completing this module, students will be able to:

- Write pages that adapt to the capabilities of mobile devices.
- Utilize controls that adapt to the capabilities of mobile devices.