INTRODUCTION TO WEB DEVELOPMENT WITH MICROSOFT VISUAL STUDIO 2010 (M10267)

Course Code: 6281

Learn to develop web applications with Visual Studio 2010 in 14 hands-on labs.

In this five-day, instructor-led course, you will gain the knowledge and skills to develop web applications with Microsoft Visual Studio 2010. In 14 hands-on labs, you’ll learn the basics, from creating web applications using Visual Studio 2010 and .NET-based languages to implementing advanced technologies supported by Visual Studio 2010 for web development.

What You’ll Learn

- Explore ASP.NET web applications in Microsoft Visual Studio 2010
- Create web applications by using Microsoft Visual Studio 2010 and Microsoft .NET-based languages
- Create a Microsoft ASP.NET Web Form
- Add functionality to a Microsoft ASP.NET Web Form
- Implement master pages and user controls
- Validate user input
- Debug Microsoft ASP.NET web applications
- Manage data in an ASP.NET 4.0 web application
- Manage data access tasks by using LINQ
- Manage data by using ASP.NET Dynamic Data
- Create a Microsoft ASP.NET AJAX application
- Consume and Windows Communication Foundation (WCF) services
- Manage state in web applications
- Configure and deploy a Microsoft ASP.NET web application
- Secure a Microsoft ASP.NET web application
- Implement new technologies supported by Visual Studio 2010 for web development

Who Needs to Attend

Novice web developers who are familiar with HTML or DHTML, as well as a scripting
language such as Visual Basic Scripting Edition or Microsoft Jscript

Prerequisites

• At least one month of experience in .NET technologies
• Knowledge of HTML or DHTML, including tables, images, and forms
• Programming experience using Visual Basic .NET or Visual C# .NET, including declaring variables and using loops and conditional statements
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CLASSROOM LIVE $3,095 USD 5 days

Classroom Live Outline

1. Exploring Microsoft ASP.NET Web Applications in Microsoft Visual Studio 2010
   • Introduction to the .NET Framework
   • Overview of ASP.NET
   • Overview of the Lab Application

2. Creating Web Applications by Using Microsoft Visual Studio 2010 and Microsoft .NET-Based Languages
   • Choosing a Programming Language
   • Overview of Visual Studio 2010
   • Creating a Simple Web Application

3. Creating a Microsoft ASP.NET Web Form
   • Creating Web Forms
   • Adding and Configuring Server Controls in a Web Form

4. Adding Functionality to a Microsoft ASP.NET Web Form
   • Working with Code-Behind Files
   • Handling Server Control Events
   • Creating Classes and Components by Using Visual Studio 2010
   • Handling Page Events

5. Implementing Master Pages and User Controls
   • Creating Master Pages
   • Adding User Controls to an ASP.NET Web Form

6. Validating User Input
   • Overview of User Input Validation
   • ASP.NET Validation Controls
• Validating Web Forms

7. Troubleshooting Microsoft ASP.NET Web Applications
   • Debugging in ASP.NET
   • Tracing in ASP.NET

8. Managing Data in an Microsoft ASP.NET 4.0 Web Application
   • Overview of ADO.NET
   • Connecting to a Database
   • Managing Data

9. Managing Data Access Tasks by Using LINQ
   • Overview of LINQ
   • Managing XML Data by Using LINQ to XML
   • Managing SQL Data by Using LINQ to SQL and LINQ to Entities

10. Managing Data by Using Microsoft ASP.NET Dynamic Data
    • Overview of ASP.NET Dynamic Data
    • Applying ASP.NET Dynamic Data
    • Customizing ASP.NET Dynamic Data Applications

11. Creating a Microsoft ASP.NET AJAX-Enabled Web Forms Application
    • Introduction to AJAX
    • Creating an ASP.NET AJAX Application by Using the AJAX Features for ASP.NET
    • Extending an ASP.NET Web Forms Application by Using the AJAX Control Toolkit

12. Consuming Microsoft Windows Communication Foundation Services
    • Overview of Windows Communication Foundation Services
    • Calling Windows Communication Foundation Services
    • Working with WCF Data Services

13. Managing State in Web Applications
    • State Management
    • ASP.NET Profiles
    • ASP.NET Caching

14. Configuring and Deploying a Microsoft ASP.NET Web Application
    • Configuring an ASP.NET Web Application
    • Deploying an ASP.NET Web Application

15. Securing a Microsoft ASP.NET Web Application
    • Overview of Web Application Security
    • Declaratively Configuring Authentication and Authorization
    • Working Programmatically with Authentication and Authorization

16. Implementing Advanced Technologies Supported by Microsoft Visual Studio 2010 for Web Development
    • Working with the ASP.NET MVC 2 Framework
• Working with Silverlight 4

Classroom Live Labs
Lab 1: Creating Web Applications by Using Microsoft Visual Studio 2010 and Microsoft .NET-Based Languages
Lab 2: Creating a Microsoft ASP.NET Web Form
Lab 3: Adding Functionality to a Microsoft ASP.NET Web Form
Lab 4: Implementing Master Pages and User Controls
Lab 5: Validating User Input
Lab 6: Debugging Microsoft ASP.NET Web Applications
Lab 7: Managing Data in an ASP.NET 4.0 Web Application
Lab 8: Managing Data by Using ASP.NET Dynamic Data
Lab 9: Creating a Microsoft ASP.NET AJAX-Enabled Web Forms Application
Lab 10: Consuming Windows Communication Foundation Services
Lab 11: Managing State in Web Applications
Lab 12: Configuring and Deploying a Microsoft ASP.NET Web Application
Lab 13: Securing a Microsoft ASP.NET Web Application
Lab 14: Implementing Advanced Technologies Supported by Microsoft Visual Studio 2010 for Web Development
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Virtual Classroom Live Outline
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   • Overview of Visual Studio 2010
   • Creating a Simple Web Application
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   • Creating Web Forms
   • Adding and Configuring Server Controls in a Web Form
4. Adding Functionality to a Microsoft ASP.NET Web Form
   • Working with Code-Behind Files
   • Handling Server Control Events
   • Creating Classes and Components by Using Visual Studio 2010
   • Handling Page Events
5. Implementing Master Pages and User Controls
   • Creating Master Pages
   • Adding User Controls to an ASP.NET Web Form
6. Validating User Input
   • Overview of User Input Validation
   • ASP.NET Validation Controls
• Validating Web Forms
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  • ASP.NET Caching
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  • Configuring an ASP.NET Web Application
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  • Overview of Web Application Security
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  • Working Programmatically with Authentication and Authorization
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Aug 19 - 23, 2019 | 9:30 AM - 5:30 PM EST
Nov 11 - 15, 2019 | 9:30 AM - 5:30 PM EST
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PRIVATE GROUP TRAINING

5 days

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