



Developing ASP.NET Web Forms Applications using Visual Studio

Training Details

Training Time	:	5 Days
Capacity	:	12
Prerequisites	:	Before attending, delegates must already know C# or Visual Basic languages.

About Training

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This course provides the necessary skills and techniques to design and write scalable, robust and secure Web applications using Microsoft Visual Studio and the ASP.NET Framework.

You will gain in-depth knowledge of ASP.NET and its related technologies and obtain practical insights into developing enterprise-scale, data-driven Web applications. Throughout the course you will be building a fully functional ASP.NET web application.

The course is presented as a mixture of lectures and hands-on exercises. Instructions and solutions are provided in both C# and Visual Basic, enabling you to work with your choice of language.

What You'll Learn

At the end of this course you will be able to:

- Create web application projects using Visual Studio 2012
- Use Master Pages, CSS, themes and skins to enforce design principles
- Understand and manage state across and within page transitions
- Create modular user interfaces with user controls
- Implement site navigation mechanisms
- Use validation techniques to ensure input data accuracy
- Diagnose problems and implement a coherent error handling architecture

- Create data-driven and data-bound user interfaces using relational data sources, LINQ, and the Entity Framework
- Use routing to simplify URLs within an ASP.NET web application
- Create and use simple ASP.NET Web Services and WCF services
- Describe and implement ASP.NET AJAX functionality to provide a richer UI experience
- Improve performance with caching
- Implement authentication, authorisation and role based security using the ASP.NET membership system and the login controls
- Use some of the new elements and attributes of HTML5
- Extend the pipeline using custom modules and handlers

Outline

- Module 1: Welcome to ASP.NET
- Module 2: Building blocks of the web
- Module 3: ASP.NET Page Processing
- Module 4: State Management
- Module 5: User controls
- Module 6: Master pages
- Module 7: Moving the user and transferring data
- Module 8: Validation and Error Handling
- Module 9: Understanding Data in ASP.NET
- Module 10: Databinding and controls
- Module 11: Routing
- Module 12: WCF Services
- Module 13: Creating a modern UI using ASP.NET AJAX
- Module 14: Caching and data reuse
- Module 15: Security and Membership API
- Module 16: ASP.NET and HTML5