

Microsoft® ASP.NET Using Visual Basic® 2008 Volume 2



Instructors: **Ken Getz** is a nationally renowned speaker and best-selling author who specializes in programming with Visual C# and Visual Basic. He is the author and presenter of some of AppDev's most popular courses, and has been showing developers how to build powerful, robust applications for over 10 years.

Don Kiely is a nationally recognized author, instructor and consultant who travels the country sharing his expertise in SQL Server and security. He is a featured speaker at SQL Server conferences and specializes in security as it relates to databases and application development.

Target Audience/Prerequisites: Before taking this course, students should have a good working knowledge of Visual Studio 2005 or Visual Studio 2008 and the .NET Framework 2.0. Students should also have a good working knowledge of Visual Basic. In addition, students should be familiar with the concepts covered in Volume 1 of this course.

Total Learning Time: 10-30 hours

Media run time is 16+ hours, total learning time could be up to 30 hours if the courseware, labs and exams are utilized. This course can also be used as quick reference material, with the ability to access just the information you need in a matter of minutes.

Course Description: In this course you will be introduced to many exciting ASP.NET features that will help you get the most out of the .NET Framework and make you a better and more efficient Visual Studio 2008 developer. You will become familiar with the tracing features in Visual Studio that help you quickly troubleshoot issues. You will also learn how to read and write XML data using XML DOM, how to work with ASP.NET Profile features and ASP.NET Web Parts, and how to take advantage of creating your own user-defined control. You'll also learn about caching issues that can help optimize your sites, and how to use Web parts to create dynamic Web sites. You'll also learn about new features in Visual Studio 2008, including support for ASP.NET AJAX, the new ListView control, and ASP.NET extensions.

Course Outline:

ASP.NET Tracing

- Page-level Tracing
- Programmatic Tracing
- Web.config
- System.Diagnostics.Trace
- Trace Viewer
- TraceListeners and TraceSwitches
- WebPageTraceListener
- Monitor Application Health

Creating New Controls

- User-defined Controls
- User Controls
- Custom Controls

Improving Performance with Output

- Caching
- Output Caching
- Declarative Output Caching
- Cache Page Fragments with User Controls
- Dynamic Content in Cached Pages
- Set Caching Configuration Options

Advanced Caching Techniques

- Caching Features in ASP.NET
- Configure Output Caching
- Expiration Policies
- Database Changes
- SQL Notifications for Cache Expiration

AJAX

- Introduction to AJAX
- Server-side AJAX Works
- Controls in the AJAX Control Toolkit
- Explore Client-Side AJAX

Using Data List and Repeater Controls

- Repeater and DataList Controls
- Templates and Styles
- Bind Data to the Repeater and DataList Controls

Creating and Consuming Web Services

- XML Web Service in Visual Studio
- Test and Run Your Web Service
- Web Service From a .NET Client
- Explore the Windows Communication Foundation (WCF)

Using the List View and Database Controls

- ListView Features
- ListView Design Support in Visual Studio
- Convert Static Pages to Dynamic Pages
- Implementing Paging in the ListView Control

Reading and Writing XML Using the XML DOM

- Reading and Writing XML Programmatically
- Important Classes in the System.Xml Namespace
- Create XML Documents

ASP.NET Profile Features

- Introduction to ASP.NET's Profile Features
- Create Profile Schema in Web.config
- Work With ASP.NET's Profile Object Programmatically
- Manage Anonymous Users and Their Profiles
- Build and Use a Custom Profile Provider

Empowering User With Web Parts

- Personalization Features
- Web Part Server Controls
- Code to Control Web Parts
- Create Web Parts Controls

ASP.NET Extensions

- Features of ASP.NET Extensions
- Deploy Web Applications
- Enable the Browser's Back Button With AJAX Pages
- ASP.NET Dynamic Data

Number of Modules	Media Run Time	Total Learning Time	Printable PDF Courseware*	Hands-on Labs	Sample Code	Pre/Post Exams	Supports Microsoft Exam Number
10 Modules	10+ hours	10-30 hours	750+ Pages	Yes	Yes	Yes	N/A

* Professionally printed, bound courseware (student manuals) are available. Ask for details.