



Microsoft® ASP.NET Using Visual Basic 2005

with Ken Getz and Andy Baron

In this course, you'll learn how to use Visual Studio 2005 and Visual Basic 2005 to build ASP.NET 2.0 Web pages and XML Web services. You'll gain an understanding of the new architecture behind ASP.NET 2.0 and how to use the new server controls. You'll learn to create consistent web sites using Master Pages, to improve performance with output caching, add membership features, configure and deploy ASP.NET applications, to authenticate users and limit their access to resources, direct users using new Site Navigation tools and to handle multi-user data access conflicts.

Introduction to ASP.NET

- A Review of Classic ASP
- ASP.NET Web Applications
- Rendering HTML with Server Controls
- Data Binding in ASP.NET 2.0
- Working with Web Controls
- Displaying Data in Web Controls

What's New in ASP.NET 2.0

- New Features in ASP.NET 2.0
- Designer Features
- Deployment and Configuration Tools
- Increasing Productivity

Working with Controls

- Introduction to Web Controls
- Simple Input Controls
- HyperLink and Button Controls
- List Controls
- Controlling Focus
- Creating Web Forms Controls
- Making Web Forms Controls Work

Using Rich Server Controls

- Introduction to Rich Controls
- The Calendar Control
- The AdRotator Control
- The XML Control

Accessing Data

- Overview of ADO.NET
- Connecting to Data
- Executing Commands
- Working with Data
- Choosing an ADO.NET Provider

Configuration

- Configuration Overview
- Using the Web Site Administration Tool
- Programming Configuration Files
- Encrypting Configuration Sections
- Reading Application Settings from Web.config

Data Binding

- Introducing Data Source Controls
- Reading and Write Data Using the SqlDataSource Control
- Displaying and Editing Middle-Tier Data using the ObjectDataSource Control
- Displaying XML Data Using the XmlDataSource Control

Validating User Input

- Overview of ASP.NET Validation Controls
- Using the Simple Validators
- Using the Complex Validators
- Summarizing Results with the ValidationSummary Control
- Separating Validation into Validation Groups

Themes and Master Pages

- Creating a Consistent Web Site
- ASP.NET 2.0 Themes
- Master Pages
- Create Named Skins

Site Navigation

- Providers and Data Sources
- Creating an XML Site Map File
- Site Navigation Controls
- Using the Site Navigation API
- URL Mapping
- Security Trimming

Displaying Data with the GridView Control

- Introducing the GridView Control
- Filter Data in the GridView Control
- Allow Users to Select from a DropDownList in the Grid
- Add a Hyperlink to the Grid
- Deleting a Row and Handling Errors

Managing State

- Preserving State in Web Applications
- Page-Level State
- Using Cookies to Preserve State
- ASP.NET Session State
- Storing Objects in Session State
- Configuring Session State
- Setting Up an Out-of-Process State Server
- Storing Session State in SQL Server
- Using Cookieless Session IDs
- Application State

Managing Users with ASP.NET's Membership Features

- Introduction to Membership and Roles
- Using Membership Controls
- Writing Code to Interact with Membership and Roles

Improving Performance with Output Caching

- The Importance of Caching
- Declarative Page Output Caching
- Caching Page Fragments
- Post-Cache Substitution
- Caching Configuration

Using the DataList and Repeater Controls

- Overview of List-Bound Controls
- Creating a Repeater Control
- Creating a DataList Control

Creating and Consuming Web Services

- The Motivation for XML Web Services
- Creating an XML Web Service with Visual Studio
- Designing XML Web Services
- Creating Web Service Consumers
- Discovering Web Services Using UDDI

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