

ASP.NET Course Content

Overview of the ASPNET Framework

- ❖ ASPNET and the NET Framework
- ❖ Understanding the Framework Class Library
- ❖ Understanding the Common Language Runtime
- ❖ Understanding ASPNET Controls
- ❖ Overview of ASPNET Controls
- ❖ Understanding HTML Controls
- ❖ Understanding and Handling Control Events
- ❖ Understanding View State
- ❖ Understanding ASPNET Pages
- ❖ Understanding Dynamic Compilation
- ❖ Understanding Control Trees
- ❖ Using Code-Behind Pages
- ❖ Handling Page Events
- ❖ Using the Pages Post Back Property
- ❖ Debugging and Tracing ASPNET Pages
- ❖ Tracing Page Execution

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- ❖ Using the Literal Control
- ❖ Accepting User Input
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- ❖ Using the Check Box Control
- ❖ Using the Radio Button Control
- ❖ Submitting Form Data
- ❖ Using the Button Control
- ❖ Using the Link Button Control
- ❖ Using the Image Button Control
- ❖ Using Client Scripts with Button Controls
- ❖ Performing Cross-Page Posts
- ❖ Specifying a Default Button
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- ❖ Using the Image Map Control
- ❖ Using the Panel Control
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- ❖ Setting the Display Property
- ❖ Highlighting Validation Errors
- ❖ Using Validation Groups
- ❖ Disabling Validation
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- ❖ Using the Range Validator Control
- ❖ Using the Compare Validator Control
- ❖ Using the Regular Expression Validator Control
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- ❖ Creating a Length Validator Control
- ❖ Creating an Ajax Validator Control

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- ❖ Accepting File Uploads
- ❖ Saving Files to the File System
- ❖ Saving Files to a Database
- ❖ Uploading Large Files
- ❖ Displaying a Calendar
- ❖ Creating a Pop-up Date Picker
- ❖ Rendering a Calendar from a Database Table
- ❖ Displaying Advertisements
- ❖ Storing Advertisements in an XML File
- ❖ Storing Advertisements in a Database Table
- ❖ Tracking Impressions and Transfers
- ❖ Displaying Different Page Views
- ❖ Displaying a Tabbed Page View
- ❖ Displaying a Multi-Part Form
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- ❖ Creating Master Pages
- ❖ Creating Default Content
- ❖ Nesting Master Pages
- ❖ Using Images and Hyperlinks in Master Pages
- ❖ Registering Master Pages in Web Configuration
- ❖ Modifying Master Page Content
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- ❖ Using the Page Header Property
- ❖ Exposing Master Page Properties
- ❖ Using Find Control with Master Pages
- ❖ Loading Master Pages Dynamically
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- ❖ Creating Themes
- ❖ Adding Skins to Themes
- ❖ Creating Named Skins
- ❖ Themes Versus Style Sheet Themes
- ❖ Disabling Themes
- ❖ Registering Themes in the Web Configuration File
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- ❖ Creating Global Themes
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- ❖ Binding to a Data Source
- ❖ Determining the Selected List Item
- ❖ Appending Data Items
- ❖ Enabling Automatic Post Backs
- ❖ Using the Items Collection
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- ❖ Working with the List Box Control
- ❖ Working with the Check Box List Control
- ❖ Working with the Bulleted List Control
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- ❖ Selecting Data
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- ❖ Sorting Data
- ❖ Paging Through Data
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- ❖ Using Bound Fields
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Using the Repeater and Data List Controls

- ❖ Using the Repeater Control
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Creating Custom Controls with User Controls

- ❖ Creating User Controls
- ❖ Registering User Controls in the Web Configuration File
- ❖ Exposing Properties from a User Control
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- ❖ Creating an Address Form Control
- ❖ AJAX and User Controls
- ❖ Dynamically Loading User Controls
- ❖ Using the Reference Directive
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Using the List View and Data Pager Controls

- ❖ Using the List View Control
- ❖ Using the Layout Template and Item Template
- ❖ Using the Group Template
- ❖ Selecting a Row
- ❖ Sorting Database Data
- ❖ Editing Database Data
- ❖ Using the Data Pager Control
- ❖ Creating a Custom User Interface for Paging
- ❖ Data Source Paging with the Data Pager Control

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Building Components

- ❖ Building Basic Components
- ❖ Components and Dynamic Compilation
- ❖ Mixing Different Language Components in the App Code Folder
- ❖ Declaring Methods
- ❖ Declaring Fields and Properties
- ❖ Declaring Constructors
- ❖ Overloading Methods and Constructors
- ❖ Declaring Namespaces
- ❖ Creating Partial Classes
- ❖ Inheritance and Abstract Classes
- ❖ Declaring Interfaces
- ❖ Using Access Modifiers
- ❖ Intelligence and Components
- ❖ Using ASPNET Intrinsic in a Component
- ❖ Building Component Libraries
- ❖ Compiling Component Libraries
- ❖ Adding a Reference to a Class Library
- ❖ Architectural Considerations
- ❖ Building Multi-Tier Applications
- ❖ Creating the User Interface Layer
- ❖ Creating the Business Logic Layer
- ❖ Creating the Data Access Layer

Building Data Access Components with ADONET

- ❖ Connected Data Access
- ❖ Using the Connection Object
- ❖ Using the Command Object
- ❖ Using the Data Reader Object
- ❖ Disconnected Data Access
- ❖ Using the Data Adapter Object
- ❖ Using the Data Table and Data View Object
- ❖ Using the Data Set Object
- ❖ Executing Asynchronous Database Commands
- ❖ Using Asynchronous ADONET Methods
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- ❖ Building Database Objects with the NET Framework
- ❖ Enabling CLR Integration
- ❖ Creating User-Defined Types with the NET Framework
- ❖ Building a Data Access Layer with a User-Defined Type
- ❖ Creating Stored Procedures with the NET Framework
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- ❖ Overview of the Login Controls
- ❖ Using the Login Control
- ❖ Automatically Redirecting a User to the Referring Page
- ❖ Automatically Hiding the Login Control from
- ❖ Authenticated Users
- ❖ Using a Template with the Login Control
- ❖ Performing Custom Authentication with the Login Control
- ❖ Using the Create User Wizard Control
- ❖ Configuring Create User Form Fields
- ❖ Sending a Create User Email Message
- ❖ Automatically Redirecting a User to the Referring Page
- ❖ Automatically Generating a Password
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- ❖ Using the Login Status Control
- ❖ Using the Login Name Control
- ❖ Using the Change Password Control
- ❖ Sending a Change Password Email
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- ❖ Using the Password Recovery Control
- ❖ Sending the Original Password
- ❖ Requiring a Security Question and Answer
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- ❖ Using the Login View Control
- ❖ Using Roles with the Login View Control

Maintaining Application State

- ❖ Using Browser Cookies
- ❖ Cookie Security Restrictions
- ❖ Creating Cookies
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- ❖ Setting Cookie Properties
- ❖ Deleting Cookies
- ❖ Working with Multivalued Cookies
- ❖ Using Session State
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- ❖ Using the Session Object
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- ❖ Using Cookie less Session State
- ❖ Configuring a Session State Store
- ❖ Configuring SQL Server Session State
- ❖ Using Profiles
- ❖ Creating Profile Groups
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- ❖ Migrating Anonymous Profiles
- ❖ Inheriting a Profile from a Custom Class
- ❖ Creating Complex Profile Properties
- ❖ Saving Profiles Automatically
- ❖ Accessing Profiles from Components
- ❖ Using the Profile Manager
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- ❖ Creating a Data Access Component Build Provider
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- ❖ Creating a Generic Handler
- ❖ Implementing the Http Handler Interface
- ❖ Registering Extensions with Internet Information Server
- ❖ Creating an Asynchronous HTTP Handler
- ❖ Working with HTTP Applications and HTTP Modules
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- ❖ Varying the Output Cache by Control
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- ❖ Creating a Page Output Cache File Dependency
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