

ASP.NET WebForms: A Comprehensive Hands-On Introduction - 4 Days

Course 512 Overview

- You Will Learn How To**
- Build dynamic Web applications with ASP.NET and Visual Studio
 - Create consistent user interfaces with Master pages, Themes and Skins
 - Retrieve, modify and report on data from any data source
 - Program common application tasks including master-detail pages with minimal code
 - Secure access to the application using Web Forms authentication
 - Generate multiple displays in a single page with templates
- Course Benefits** ASP.NET enables developers to build dynamic Web applications and sophisticated user interfaces with minimal code. In this course, you gain the skills needed to develop and deploy Web applications with ASP.NET. You learn how to build sophisticated user interfaces by configuring controls and extending them with custom code. You also learn how to integrate data access with data-source controls.
- Who Should Attend** Those who are interested in building Web applications with ASP.NET. Experience programming in a modern object-oriented language and an understanding of HTML are assumed.
- Hands-On Training** You learn how to build a complete and authentic Web site using Visual Basic and C#. Exercises include:
- Ensuring a consistent user interface with Master pages and Themes
 - Implementing navigation models with SiteMapPath, Menus and TreeViews
 - Identifying users with Login controls
 - Binding pages to various data sources
 - Displaying and updating single and multiple records with DataView controls
 - Reporting data over the Web
 - Dynamically access data with the EntityDataSource

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Course 512 Outline

Getting Started with ASP.NET

- Constructing Web Forms with ASP.NET controls
- Developing with Visual Studio
- Debugging with Visual Studio Development Web server
- Applying the common Web Form controls

Architecting the User Interface (UI)

Designing with Master pages

- Ensuring uniform page layout
- Devising site templates
- Adding controls to Master pages

Data-driven site navigation

- Implementing ASP.NET Menu, TreeView and SiteMapPath controls
- Defining your site structure using SiteMaps
- Dynamically moving between pages in code

Standardizing the UI

- Implementing CSS without changing page content
- Building Themes from Skins and CSS
- Styling controls with Skins

Retrieving and Updating Data

Creating data-driven applications

- Connecting to data with ASP.NET DataSource controls
- Binding data to Web Form controls
- Automating data access with GridView, FormView and DetailView
- Sorting and paging with GridView

Modifying data

- Data binding to tables with SQL or the Entity Framework
- Code-free declarative data binding
- Updating, deleting and inserting records with two-way data binding
- Integrating custom update code

Reporting

- Delivering reports
- Generating selection criteria for filtering data
- Reporting from dynamically cached data

Binding the Entity Framework

- Integrating data with the Entity DataSource

- Dynamically generating queries with the Query Extender
- Selecting and sorting data with LINQ

Enhancing Web Pages

Building master-detail pages

- Parameterizing the data source
- Customizing DataViews with templates
- Coordinating master-detail views

Validating data

- Validator controls: Required, Range, Comparison, Summary, RegularExpression
- Implementing business rules with the Custom Validator
- Setting cursor focus on error

Securing the Application

Controlling site access

- Configuring Web Forms authentication and authorization
- Administering users and roles

Leveraging the Login controls

- Authenticating users with the Login control
- LoginView
- LoginStatus
- LoginName

Customizing security

- Configuring the security provider to take control of authentication
- Accessing user and role information from code
- Integrating with Active Directory

Maintaining State

Managing user information

- Tracking the user's state across multiple pages
- Accessing user data with the Session object

Caching application information

- Programmatically caching business objects
- Dealing with stale data

Improving Application Functionality

Simplifying complex processes

- Sequencing tasks with the Wizard control
- Partitioning the User Interface with MultiView

Handling common tasks

- Sending e-mail
- Uploading files
- Accepting dates through the Calendar control

Deploying Your Application

- The ASP.NET compilation model
- Publishing your Web site