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ASP.NET Essentials

Duration: 3 Days

Overview:

To build effective and eye-catching database-driven web sites, you must first have a solid framework on which to run your web pages as well as a rich environment in order to create and program these web pages. Microsoft's ASP.NET 3.5 and Visual Studio combine forces to provide you with the ultimate platform on which you can create dynamic and interactive web applications.

Aspect Training's ASP.NET Essentials course 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.

Prerequisites:

Knowledge of VB.NET or C#.NET is required prior to this course.

Course Topics:

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

The User Interface (UI)

Designing with Master Pages

- Ensuring uniform page layout
- Devising site templates
- Extending Master pages with custom properties

Data-driven site navigation

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

Standardising the UI

- Styling controls with Skins
- Building Themes from Skins and CSS



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Retrieving and Updating Data

Exploiting the design-time environment

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

Modifying data

Databind to middle-tier business objects
Code-free declarative data binding
Updating, deleting and inserting records with two-way data binding
Integrating custom update code

Enhancing Web Pages

Building master-detail pages

Parameterising the data source
Customising DataViews with templates
Coordinating master-detail views

Creating reusable UI components

Building user controls
Incorporating data retrieval into user controls

Securing the Application

Controlling site access

Configuring Web Forms authentication and authorisation
Administering users and roles
Establishing user profiles

Leveraging the Login controls

Authenticating users with the Login control
LoginView
LoginStatus
LoginName

Customising security

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

Maintaining State

Managing user information

Inserting data into the ViewState
Employing user variables with Sessions

Improving Application

Functionality

Validating data

Validator controls: Required, Range, Comparison, Summary, RegularExpression
Implementing business rules with the Custom Validator

Setting cursor focus on error

Simplifying complex processes

Sequencing tasks with the Wizard control

Partitioning data 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