

Course 465:

ASP.NET 3.5 Programming with Visual Studio 2008

(5 days)

Course Description...

The ASP.NET 3.5 Programming course builds upon the solid foundation provided by ASP.NET 2.0 and introduces new technologies that minimize coding and maximize productivity. The course starts by providing students with a hands-on look at features included in Visual Studio 2008 such as new CSS editing windows and the split-view designer. Students are then provided with an in-depth look at ASP.NET 3.5 features including the ListView and LinqDataSource controls, validation group techniques, master pages and themes, personalization, membership and role providers, site navigation features and data source controls. Additional topics covered include best practice ASP.NET architecture techniques to build re-useable code that's simple to maintain. All lab exercises can be completed using either VB.NET or C#.

Learning Objectives...

- New features in ASP.NET 3.5
- Productivity enhancements found in Visual Studio .NET 2008
- How to use Server Controls and User Controls in Web Forms
- End user data validation with validation groups
- How to use the new ListView control
- The role events play in ASP.NET applications
- Data binding and database integration with ADO.NET and the LinqDataSource
- How to minimize coding with data source controls
- N-Tier/N-Layer ASP.NET application architecture
- How to display and edit data using the GridView
- How the XmlDataSource control can display XML and RSS feeds
- The ins and outs of Web Services
- ASP.NET Membership and Role providers
- New site navigation features
- How to add AJAX functionality into ASP.NET Applications

Who should attend...

If you're interested in learning how to use new ASP.NET 3.5 features to minimize coding and maximize productivity then this course is for you!

Prerequisites...

It is recommended that attendees take the C# 3.0 Programming or VB 2008 Programming course prior to taking this course. Previous experience with JSP, PHP, ASP or ASP.NET is highly recommended.



Course Outline...

Introduction to ASP.NET 3.5

- Introduction to the .NET Framework
- New features in ASP.NET 3.5
- Creating ASP.NET Website and Application Projects
- Compiling ASP.NET 3.5 Applications
- Configuring ASP.NET Applications
- ASP.NET Application Architecture

Visual Studio 2008 Features

- Integrated VS 2008 Web Server
- Intellisense Everywhere
- XHTML Support
- Section 508 Support
- Code Refactoring
- Source code configuration options
- Source code preservation
- Code snippets
- Web deployment tools
- CSS editor windows
- Split-view designer

ASP.NET Web Forms

- ASP.NET Web Form Features
- Page Directive and Attributes
- The Role of the Page Class
- Tracing and the Page Lifecycle
- Code Separation

Using ASP.NET Server Controls

- ASP.NET Controls
- Web Server Controls
- Setting Defaults
- Cross Page Postbacks
- Validation Controls
- Validation Groups
- User Controls

Data Access with ADO.NET

- What is ADO.NET?
- ADO.NET Classes
- Storing Connection Strings
- Working with ADO.NET Classes
- LINQ to SQL
- Data Binding to Controls
- Customizing the ListView Control

Data Source Controls

- Data Binding in ASP.NET
- Data Binding Expressions
- Using Data Source Controls
- Using the LinqDataSource Control



Master Pages

- What are Master Pages?
- Creating Master Pages
- Creating Content Pages
- Nesting Master Pages
- Accessing and Changing Master Pages dynamically

Profiles and Themes

- Defining Profiles
- Using Profiles
- Defining Themes
- Applying Themes

Site Navigation Controls

- Site Navigation in ASP.NET
- Creating a web.sitemap File
- Configuring Site Map Providers
- Site Map Navigation Controls
- URL Remapping and web.config

State Management

- State Management Options in ASP.NET
- Session State
- ViewState
- Caching SQL Server Data

Security Configuration and Controls

- Introduction to Security in ASP.NET
- Key security terms
- Forms Authentication
- Windows Authentication
- Configuring the ASP.NET Membership Provider
- Using the Membership class
- Role Management
- Security Server Controls

Working with Web Parts

- Introduction to Web Part Pages
- The WebPartManager Control
- Understanding Web Part Zones
- Creating Web Parts
- Editor Zones and Parts
- Catalog Zones and Parts
- Putting it all together

Working with ASP.NET AJAX

- What is AJAX?
- ASP.NET AJAX Controls
- Using the UpdatePanel
- Interacting with Web Services
- Using the AJAX Toolkit

Please contact your ROI representative to discuss course customization!!!