

Advanced ASP.NET 4.0 Using Visual Studio 2010

GWEASP1305
5 day

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Prerequisites

- 1 year of Visual Basic.NET or C#.NET or equivalent programming language
- 1 year of Web development or very good understanding of Web design
- Understand or be practiced in all topics in the Beginning ASP.NET 4.0 using Visual Studio 2010 course.

Course Summary and Lessons

Understanding ASP.NET Frameworks

- Writing Code
- 4.0 Page Directives
- Page Events
- Postback
- Cross-Page Postback
- ASP.NET Application Folders
- Global.asax

Server Controls and Client Side-Scripts

- ASP.NET Server Controls
- Applying Styles to Server Controls
- HTML Server Controls
- Manipulating Pages and Server Controls with JavaScript
- Client-Side Callback

Web Server Controls

- Label
- Literal
- Textbox

- Button
- HyperLink
- List Controls
- Panel
- File Upload
- Wizard
- Chart

Validating User Input

- Understanding Validation
- Validation Server Controls
- Notifying the User
- Validation Groups

Master Pages

- The Basics
- Adding Code to a Master Page
- Adding Content Pages
- Default Content
- Dynamically Assigning Master Page

- Nesting
- Events

Adding Style

- Cascading Style Sheets (CSS)
- Themes and Skins Overview

Working with Data

- Data Source Controls
- Data Bound Controls
- ADO.NET Overview
- LINQ Overview

Site Navigation

- <A> Tag
- Hyperlink Control
- Response.Redirect
- Server.Transfer
- Site Maps
- Site Map Path
- Menus

User Controls

- Creating User Controls
- Creating Web Controls
- Creating Web Parts

ASP.NET AJAX

- Server-Side Controls
 - ScriptManager
 - UpdatePanel
 - Timer
- AJAX Control Toolkit Overview

Security

- <authentication>
- Forms-Based Authentication
- User Object
- Membership Object
- Role Object

Managing State

- Session
- Application
- Query Strings

- Cookies
- Hidden Fields
- ViewState

Debugging and Error Handling

- Debugging in Visual Studio
- Tracing
- Exceptions and Error Handling
- Web.Config

Modules and Handlers

- HttpModules
- HttpHandlers

ASP.NET MVC Overview

- Intro to Model-View-Controller
- Understanding Routes and URL's
- Controllers
- Views

Introduction to ADO.NET Entity Framework

- EDM Wizard
- ADO.NET Entity Designer
- Understanding Relationships
- Inheritance
- Using Store Procedures
- EntityDataSource Control

Working with Services

- Creating an XML Web Service
- Consuming an XML Web Service
- Creating a WCF Service
- Consuming a WCF Service

JQuery Overview

- What is JQuery
- Using JQuery scripts
- Function()
- \$

Silverlight 3 Overview

- Intro to Silverlight