

Advanced ASP.Net with C# programming with 3.5 Framework

Introduction to ASP3.0

Overview of Web Application Technology

- Static vs. Dynamic Web Sites
- Dynamic Content from Databases
- Client-Side Scripting vs. Server-Side Scripting

ASP.NET 3.5 Features

- Comparison between ASP.NET2.0 & 3.5 Versions
- ASP.NET 3.5 as a Programming Framework
- Power of Web Forms
- Tying Together the Server-Side and Client-Side Architecture

Creating ASP.NET 3.5 Pages

- How to Build ASP.NET 3.5 Pages
- Elements of a Web Form
- Page Directives
- Use of Code Behind Pages
- Life-cycle of a Web Form
- Handling Page Object Events
- Application Folders

Using Controls

- HTML Controls
- Web Controls
- Creating Controls at Runtime
- Custom User Controls

Validation in ASP.NET 3.5

- How Validation Controls Work
- Server-Side Validation
- Client-Side Validation
- Regular Expressions
- Customizing Validation
- Disabling Validation
- Working with Validation Groups

Maintaining State

- The Web is Stateless
- Techniques to Maintain State
- Application Object
- Session Object

- Page Object and ViewState
- Cookies

Master Pages

- The Basics of Master Page
- Coding a Master Page
- Coding a Content Page
- Event Ordering

ADO.NET 3.5

- The ADO.NET 3.5 Object Model
- Client-Side vs. Server-Side Cursors
- Connected vs. Disconnected Access
- Using Connection Classes to Connect to a Data Source
- Using Command Classes to Execute Queries and Stored Procedures
- Insert, Update and Delete with ADO.NET
- Using DataReader Classes to Work with Cursors
- Using the DataSet Class with Disconnected Data
- Using DataAdapter Classes with DataSets

Data Binding in ASP.NET 3.5

- Binding ASP.NET 3.5 Controls to a Data Source
- Using the ListBox Control
- Using the GridView Control
- Using the DetailsView Control
- Using the FormView Control
- Using the Repeater Control

Using XML in ASP.NET 3.5

- Introduction to XML and XML Schemas
- Reading XML Data with a DataSet
- Writing XML Data with a DataSet

Working with Assemblies

- The Role of .NET Assemblies
- Private and Shared Assemblies
- Understanding Private Assemblies
- Building and Using Single-File Assemblies
- Building and Using Multi-File Assemblies
- Understanding Shared Assemblies
- Strong Names
- Global Assembly Cache (GAC)
- Building, Configuring and Consuming Shared Assemblies

File Upload

- Using the FileUpload Control
- Uploading Binary and Text Files to a Server
- Setting Size Limitations on Files to be Uploaded

Securing ASP.NET 3.5 Applications

- Security Basics
- ASP.NET 3.5 Authentication
- ASP.NET 3.5 Authorization
- Using the Web Site Administration Tool

E-mail

- Using SMTP Mail Servers
- Constructing E-Mail Messages
- Sending E-mail Attachments

Introduction to Web Services

- Web Services Architecture Web Service Programming Model
- Understanding SOAP Messages
- Creating Web Services using VB.NET
- Protocols for Accessing Web Services
- Consuming a Web Service
- Using WSDL and Proxy Classes

Working with Files

- System.IO Namespace
- Examining Files and Directories
- Opening Files
- Reading Files
- Writing Files

Deploying ASP.NET 3.5 Applications

- Issues with Deployment
- Using Publish Option
- Using XCOPY Deployment
- Using Web Setup Projects
- Using Copy Web Site to Deploy Files and Web Pages

ASP.NET AJAX Overview

- Introduction to AJAX
- ASP.NET AJAX Overview
- ASP.NET AJAX BETA and CTP differences
- ASP.NET AJAX Release schedule

Visual Studio2008 (.Net3.5) Features:

- Language Integrated Query (LINQ)
 - Understanding the Role of LINK
 - First Look at LINK Query Expressions
 - LINK and Generic Collections
 - LINK and Non Generic Collections
 - Internal Representation of LINK Query Operators
 - LINK Queries
 - The Role of LINK to ADO.NET
 - Programming with LINK to DataSet
 - Programming with LINK to SQL
- Introduction to Windows Communication Foundation (WCF)
- Introduction to Windows Presentation Foundation (WPF)
- Introduction to Windows Workflow foundation (WWF).
- Introduction to Silver Light.