



Asp.net Course Content (150 hours of teaching)

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Introduction to Asp.net

- ✓ The web programming model – where does asp.net fit in.
- ✓ Asp.net vs php, asp, jsp
- ✓ Asp.net and the .net framework.
- ✓ Role of c# / VB.net in asp.net programming.
- ✓ Asp.net evolution – framework 1.1, 2.0, 3.5

Demystifying the asp.net web page (.aspx)

- ✓ Understanding the asp.net web page.
- ✓ Digging into the asp.net web page class.
- ✓ Asp.net web page as a controls container.
- ✓ Asp.net web page life cycle.

Demystifying the asp.net user controls (.ascx)

- ✓ Asp.net web page vs asp.net user control
- ✓ Understanding the asp.net user control.
- ✓ Digging into the asp.net user control class.
- ✓ User control as a controls container. How is it different from asp.net web page
- ✓ Asp.net user control life cycle.
- ✓ Using asp.net user control inside web page.

Unleashing server controls

- ✓ Understanding the asp.net server controls base class
- ✓ Understanding the server control rendering mechanism
- ✓ Building a basic server control and using it in the web page
- ✓ Understanding composite controls
- ✓ Building a composite control and using it in the web page
- ✓ Understanding templated server controls
- ✓ Building a basic template server control and using it in the web page
- ✓ Demystifying databound server controls.
- ✓ Building an advance templated server control with data binding capability and using it in the web page

Anatomy of an asp.net application

- ✓ Understanding the application domain, application lifetime and application directory structure.
- ✓ Demystifying the web.config file
- ✓ Understanding the asp.net http pipeline – httpmodules and httphandlers
- ✓ Creating and using httpmodules and httphandlers

Digging into the asp.net toolbox

- ✓ Categorizing the asp.net standard controls available
- ✓ Understanding each category of asp.net server controls.
- ✓ Understanding and using standard asp.net controls.
- ✓ Understanding and using the gridview, detailsview and repeater control.

Ado.net

- ✓ Demystifying the connection string.
- ✓ Understanding sql server express.
- ✓ Working with dataset and datareader
- ✓ Understanding sqlConnection , sqlCommand and sqlParameter classes.
- ✓ Using ado.net with asp.net.

LINQ to SQL

- ✓ Understanding LINQ
- ✓ Designing the database to be fit for using LINQ
- ✓ Understanding DataContext and Entities
- ✓ Learning LINQ to SQL basics
- ✓ Using LINQ as a data access layer in real world projects

Asp.net security – Membership, roles and profiles

- ✓ Understanding the aspnetDB schema.
- ✓ Getting familiar with asp.net membership, roles and profile tables.
- ✓ Digging into System.Web.Security namespace
- ✓ Understanding asp.net security controls available.
- ✓ Developing security enabled real world asp.net application.