



## **ASP.Net with C# Course Content:35-40hours**

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### Course Outline

#### **Introduction to ASP.NET with C#**

- A Review of Classic ASP
- ASP.NET Web Applications
- Rendering HTML with Server Controls
- Using ASP.NET to Deliver XML Web Services

#### **Working with Web Forms Controls and C#**

- Introduction to Web Forms Controls
- Simple Input Controls
- HyperLinks
- Button Controls
- List Controls
- Validating User Input with C#

#### **Overview of ASP.NET Validation Controls**

- Client-Side Validation
- Server-Side Validation
- Required Field Validator
- Summarizing Results with the ValidationSummary Control
- Using Rich Server Controls with C#

#### **Introduction to Rich Controls**

- The Calendar Control
- The AdRotator Control
- The XML Control
- Accessing Data with C#

#### **Overview of ADO.NET, Connecting to Data**

- ADO. NET Classes
- Accessing database from webpage
- Using System.Configuration
- Using the DataList and Repeater, Datagrid Controls

#### **Overview of List-Bound Controls**



- Creating a Repeater Control
- Creating a DataList Control
- Introduction to the DataGrid
- Setting Up the DataGrid
- Using Advanced DataGrid Features
- Adding Advanced Features
- Managing Data with ADO.NET DataSets and C#

#### **The Role of DataSets in ADO.NET**

- Using DataSets in ASP.NET
- Saving DataSets in Session State
- Using DataTable Constraints
- DataSet DataRelations
- Using DataSets with DataAdapters to Modify Data
- Creating and consuming XML Web Services with C#

#### **The Motivation for XML Web Services**

- Creating an XML Web Service with Visual Studio .NET
- Making Web Services using in C#
- Running the Web Service
- Creating Web Services Clients
- HTTP Clients Creating .NET Consumers
- Web Services and Legacy Clients
- Migration and Interoperability

#### **Migrating to ASP.NET with C#**

- Using COM Objects in ASP.NET
- working with ADO Recordsets
- Using Platform Invocation Services
- Managing State with ASP.NET and C#

#### **Preserving State in Web Applications**

- Page-Level State
- Using Cookies to Preserve State,ASP.NET Session State
- Storing Objects in Session State
- Configuring Session State
- Setting Up an In-Process State Server
- Using HttpContext to store the values
- Using Application State to store the application level values
- Improving Performance with Caching

#### **The Importance of Caching**

- Declarative Page Output Caching

- Programmatic Page Caching
- Caching Page Fragments
- Caching Data and Monitoring Performance
- Configuring and Deploying ASP.NET Applications

#### **Configuring IIS and the .NET Framework**

- Deploying ASP.NET Applications
- Securing ASP.NET Applications with C#

#### **ASP.NET Security Overview**

- Windows Authentication
- Forms Authentication
- Custom Authentication