

ASP.NET Programming

Duration: 40-45 Hours

Prerequisites

- Knowledge of C# Programming Language is required.

Programming Contents

1. Introduction to ASP.NET

- .NET Framework Architecture
- Common Language Runtime
- Common Type Specification
- Web Configuration File

2. ASP.NET Server Control

- Asp.NET Server Controls
- HTML Controls
- ASP.NET Vs Server Controls
- User Controls
- Advanced Controls

3. Validation Controls

- Types of Validation
- Compare Validator
- Range Validator
- Regular Expression Validator
- Required Field Validator
- Custom Validator
- Validation Summary

4. Master Pages

- Creating Master Pages
- Creating Content Page
- User Controls
- CSS, Skins, Themes

5. State Management & Caching

- Client Side State Management
- Server Side State Management
- Caching,
- Profile Management
- Tracing,
- Query String
- View State
- Session
- Application State

6. Web Services

- Creating Web services
- Hosting Web services
- Consuming Web services

7. AJAX

- AJAX Control Toolkit
 - ScriptManager
 - ScriptManagerProxy
 - UpdatePanel
 - UpdateProgress
 - Timer
- AJAX Scripting

Database Concepts

1. ADO.NET

- Database Basics
- Connection To ADO.Net
- Query, and SubQuery
- Connecting ASP.NET Application with Database
- DataSet, DataTable
- SqlCommand,SqlConnection, SqlDataAdapter,
- Using Stored Procedure

2. LINQ

- Introduction of LINQ
- Why LINQ and advantages of LINQ
- LINQ Query Syntax
- Standard Query Operators:

- Lambda Expression
- LINQ to XML

3. XML Data Access

- XML Introduction
- XML Syntax
- XML Elements
- XML Attributes
- XML Validation
- XML Validator
- XML Viewing
- XML CSS
- XML XSLT

4. Testing & Deployment

- Unit Testing
- Publishing Application

❖ **Industry Project under the Guidance of .Net Expert.**
