ASP.NET

CSLiT
.....Connecting Technology

ASP.NET

The goal of this **ASP.NET training** course is to teach students how to create a simple Active Server Page ASP.NET application that delivers dynamic content to the Web. The ASP.NET course covers Web Forms and handling events, Web Controls and input validation, using the new web application architecture and Web Services, and debugging in the new integrated development environment.

Benefits expected from this course:

- Understanding .NET Framework
- Understanding Architecture of Scalable Applications
- Working with ASP.NET controls
- Building Data Layer
- Working with Presentation Layer
- Creating layout using Master Pages
- Working with Business Layer
- Using AJAX with .NET applications
- Improving Performance and Security
- Deploying a Web Application

Who should attend this Training?

- Web Developers
- Application Developers
- Anyone interested to develop web based applications using ASP.NET

Course Pre-requisites

- Knowledge of HTML and JavaScript.
- Experience with at least one other programming language

Course Duration

36 Hours, 12 Classes, 3 Hours per class

Course Details

Lesson 01: The .NET Framework

- The CLR
- The Framework Class Library
- Intermediate Language
- .NET Languages
- The Global Assemble Cache
- Disassemblers

Lesson 02: Visual Studio 2010

- Creating Projects
- Project Anatomy
- Using the IDE
- Code Snippets

Lesson 03: Language Syntax

- VB.NET vs C#
- Comments
- Data Types
- Variables
- Operators
- Conditional Statements
- Looping Structures
- Functions
- Exception Handling

Lesson 04: Classes & Objects

- Classes and Objects
- Partial Classes
- Methods, Properties and Events
- Constructors
- Property Procedures
- Enumerations
- Reference vs. Value Types
- Structures
- Namespaces

Lesson 05: Debugging Applications

- Breakpoints
- Tracepoints
- Stepping through code
- Data Tips & Visualisers
- Watch windows
- Command Windows

Lesson 06: ASP.NET Introduction

- HTML & Server controls
- Postbacks
- Page Lifecycle

Lesson 07: User Interface Development

- Master Pages
- Themes
- User Controls
- Navigation
- Validation

Lesson 08: Configuration

- Configuration Files
- Developer Settings
- Administration Tools

Lesson 09: Membership & Personalization

- Membership Providers
- Login Controls
- Roles
- State Management
- Personalization
- Web Parts

Lesson 10: Error Handling

- Page Level Exceptions
- Site Level Exceptions
- Custom Error Pages
- Tracing

Lesson 11: Data Binding

- Data Sources
- Data Controls
- Parameterised Queries
- Updating bound controls

Lesson 12: AJAX

- o AJAX Architecture
- o Client vs Server
- o The Async Post Back model
- o Using Update Panel controls
- o Update Progress

Lesson 13: LINQ

- o Creating a DataContext
- o Querying the Database
- o Updating the Database
- o Using the LinqDataSource

Lesson 14: Deployment

- o XCopy deployment
- o Copying web sites
- o Publishing web sites
- o Setup Projects