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.Net Online Training Course Content

Introduction to .Net Framework

- .Net Framework Overview
- Types of applications developed using .Net Framework
- Why to go for .Net instead of other technologies
- .Net Framework Class Library
- CLR, CTS, MSIL, JIT - Explanation
- Memory Units / Number System
- Number System
- Memory Units

C#-Programming - Programming Concepts

- Why Windows Forms?“Hello, World” – C# Program and Structure of C# Program
- Compiling and executing C# Program without using Visual Studio
- Why do we need Visual Studio
- Data Types in C#
- Operators in C#
- Control Structures in C# [Conditional Statements, Loops]
- Types of Variables – Value Type and Reference Types, Stack, Heap Concepts
- Functions
- Arrays
- Collections in C#
- Generics in C#
- Lambda Expressions
- LINQ (LanguageIntegrated Query)
- Exception Handling in C#

C#-Programming – Object Oriented Programming



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- Class, Object Concepts
- Access Modifiers – public, private, protected, internal, etc.,
- Static Class, Static Methods
- Abstract Class, Sealed Class
- Interfaces
- Inheritance
- Polymorphism – Method Overloading, Method Overriding
- Delegates – Single Cast Delegates, Multi Cast Delegates
- Properties in C#

Introduction to Web Technologies

- HTML (Hypertext Markup Language)
- JavaScript
- CSS Basics

ADO.NET Concepts

- ADO.NET Architecture, Connected and disconnected architecture
- Connecting to database from UI
- 5 Main Concepts – DataSet, Connection, Command, DataAdapter, DataReader
- GridView with examples

ASP.NET Concepts

- Difference between HTML and ASP.NET
- ASP.NET Controls (Text box, drop down list, checkbox etc.,)
- Validation Controls in ASP.NET
- ASP.NET State Management – Client Side Techniques
- ASP.NET State Management – Server Side Techniques
- Page Life Cycle in ASP.NET



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- ASP.NET Master pages
- ASP.NET User Controls
- Custom Error Handling in ASP.NET
- Introduction to AJAX, Ajax Control Tool kit
- XML Concept
- ASP.NET Web Services (asmx services)

Advance Topics

- Introduction to WCF Services
- Introduction to .Net MVC