

C#.NET TRAINING



.NET ENTERPRISE ARCHITECTURE

- Introduction to the .NET platform
- Common Language Run Time(CLR)
- The Common Type Specification(CTS)
- The Common Language Specification(CLS)
- Microsoft Intermediate Language(MSIL)



C#.NET LANGUAGE BASICS

- Data Types
- Type Conversion
- Boxing And Unboxing
- Conditional Statements
- Looping
- Methods In C#
- Properties
- Arrays
- Indexes
- Structures And Enumerations
- Strings
- Collections



OBJECT ORIENTED PROGRAMMING

- OOps Concepts
- Encapsulation
- Inheritance
- Polymorphism
- Class And Object
- Constructors
- Dynamic Types
- Optional Parameters
- Names And Optional Arguments
- Covariant Generic Type Parameters
- Destructors
- Method Overloading
- Early Binding And Late Binding
- Abstract Classes
- Abstract Methods

- Interfaces
- Multiple Inheritance
- Generic Classes
- Static Classes
- Static Constructors
- Object Initializer



EXCEPTION HANDLING

- System Defined Exceptions
- Custom Exceptions
- Try, Catch, Finally
- Throwing Exceptions



GUI APPLICATION DEVELOPMENT

- Windows Forms And Controls
- Creating Menus
- Toolbars And Image List
- Tree View And List View
- Notify Icon
- Error Provider



DATABASE PROGRAMMING (ADO.NET)

- ADO.NET Introduction
- Data Providers In .Net
- Introduction To Managed And Unmanaged Providers
- Data Readers
- Data Set And Data Adapters
- Data Grid View With DML Operations Sorting And Paging Etc.
- SQL Data source, XML Data Source, Object Data source Etc.
- Creating Relations And Transactions
- LINQ Programming



ASSEMBLIES

- Private Assemblies
- Shared Assemblies
- Single File Assemblies
- Multi File Assemblies
- Global Assembly Cache (GAG)



DELEGATES

- Functional Pointers

- Multi Case Delegates

ASP.NET



ASP.NET INTRO

- What is ASP.NET
- ASP Vs ASP.NET
- In Line Technique and code behind techniques



SERVER SIDE CONTROLS

- Client side control vs Server side controls
- Type of server controls-HTML server controls
- Example on Web server controls
- ASP.NET Page Execution Architecture



STATE MANAGEMENT

- Cookies
- Session State
- Session Tracking Arch
- Application object
- Session and App events
- Context
- View state



ADO.NET

- Introduction to ADO.NET Providers
- Data Reader
- Dataset
- Data list
- Repeater
- Data source Controls
- Grid view
- Details view
- List view



CACHING

- Importance of caching-ASP 3.0 Support for Caching
- Type of Caching in ASP.NET
- Output Caching
- Web user control(VS) custom control

- Fragment caching
- Data caching vs Application object



USER CONTROLS AND EVENT HANDLING

- User Defined Controls
- Inherited Control
- Inherited Forms
- Event Handling



SECURITY IN ASP.NET

- Authentication & Authorization
- Windows Based Authentication
- Form Based Authentication
- Passport Authentication
- Membership



WEB SERVICES



MASTER PAGES

Introduction to LINQ and Entity Framework



LINQ

- Intro to LINQ
- LINQ to Object
- LINQ to XML
- LINQ to SQL



Introduction to Entity Framework

- Code First
- Database First
- Model First

WCF

❖ **WCF Overview**

- Need for SOA
- Why WCF
- WCF Architecture

❖ **WCF Concepts**

- Messages
- Channels
- Services
- Behaviors

❖ **WCF Programming Model**

- Service Model
- WCF Programming Levels
- Installing WCF

Introduction to ASP.NET MVC

❖ **MVC Basics**

- Design Goals
- MVC Design Pattern
- Routing
- Controllers Intro
- Views Intro
- Models Intro

❖ **Controllers**

❖ **Views**

❖ **Models**

www.tekclasses.com

+91-8970005497/+91-7411642061

info@tekclasses.com / contact@tekclasses.com