



V-Soft Consulting Group Inc.,

Microsoft .Net Technologies

MICROSOFT .NET OVERVIEW

- Why .Net?
- Introduction to .Net Framework
- Basic functionality of CLR
- MSIL
- CTS &CLS
- .Net Languages
- System Requirements

INTRODUCTION TO VB.NET

- Features of VB.Net
- Writing Programs in VB.Net
- Compiling and executing from command prompt
- Introduction to assemblies and Namespaces
- Base class Libraries
- Data types
- Option statements
- Boxing and un-boxing
- Array
- Sub programs

INTRODUCTION TO VISUAL STUDIO .NET

- VS 6.0 vs. VS.NET
- File structure created by VS.Net application
- Types of projects
- Creating Demo console application

OBJECT ORIENTED PROGRAMMING

- Structure Vs Class
- Access
- Properties
- Method Overloading
- Constructors
- Shared modifiers
- Inheritance
- Overloading & Overriding
- 'My Base' Keyword
- Shadowing abstract class
- Sealed class
- Interface
- Polymorphism
- Early-binding and Late-binding
- Destructor and Garbage collector

GUI APPLICATION DEVELOPMENT

- Basic controls and event driven programming
- Advance controls rich textbox, dialog
- Boxes, toolbar
- Working with context menus
- Main menu and MDI form
- Visual Inheritance

WINDOWS CONTROL LIBRARY

- Creating User controls
- Creating custom controls
- Creating Custom Controls

DELEGATES

- Introduction to delegate concept
- Event handling architecture with delegate
- Handlers, Add handler and Remove handler

ASSEMBLIES

- Introduction to COM Architecture
- Disadvantages of COM
- Introduction to assemblies
- Private Vs shared Assemblies
- Creating private assembly
- Probing and preparing configuration file
- Strong name utility
- Creating shared assembly
- CLR Architecture
- Native generator utility
- Assembly versioning
- Compatibility of assembly
- Configuration files for shared assembly

DATA ACCESS WITH ADO.NET

- Introduction to data access libraries, DAO
- RDO and ADO
- Drawback of ADO
- ADO.net managed data providers
- Introduction to System.Data.OleDb
- Data reader
- Introduction to system.Data.SqlClient
- Prepared statement
- Transaction handling
- Introduction to system.Data.OracleClient
- Dataset and DataAdapter
- Databinding
- Datagrind programming
- Dataview
- Data relation

CRYSTAL REPORTS

FILE STREAMS

ADVANCED CONCEPTS

MULTI-THREADING

- Thread class
- Sleep. Suspend and resuming thread
- Asynchronous connection
- Synchronization of thread

WINDOWS SERVICES

- Introduction to Windows services
- Creating your own windows services

ASP.NET

WEB TECHNOLOGIES

- HTML
- Server side scripting languages
- Client side scripting languages

ASP.NET

- ASP Vs ASP.NET
- What is ASP.NET
- IIS Architecture
- Post back technique
- Event driven programming support
- Page life cycles
- Code behind Technique

CONTROLS

- Client side controls
- Server side controls
- Data controls
- User controls
- Custom controls
- Validation controls
- Inline coding in controls

STATE MANAGEMENT

- Cookies
- Session state
- Application state
- View state
- Maintaing Viewstate in page and controls
- About global.aspx page
- Scope of viewstate,session and application variables
- Writing Session and Application events

CACHING

- Importance of caching
- Output caching or page caching
- Fragment caching
- Data caching

ASP.NET CONFIGURATION

- WEB.CONFIG File
- Compilation settings
- Custom error settings
- Application settings

ADO.NET

- Data Providers
- Data binding with data controls
- Programming with data grid
- Programming with data repeater
- Programming with Data list
- Programming with Data view
- Inline coding supports in page and data controls

ASP.NET TRACING

SECURITY IN ASP.NET

- Authentication
- Authorisation
- Authentication modes

ADVANCED PROGRAMMING

XMLPROGRAMMING

- Introduction to XML
- Creating and reading XML document
- XML parsers
- Data transformation using XML

WEB SERVICES

- What is Web service
- WSDL Utility
- Session state with Web services
- Caching with Web services
- Proxy with Asynchronous methods
- Securing Web Services
- SSL
- SOAP Headers

LOCALISATION AND GLOBALISATION

INTRODUCTION TO MOBILE PROGRAMMING

WHAT'S NEW IN ASP.NET 2.0?

C#.NET

MICROSOFT .NET OVERVIEW

- Why .Net?
- Introduction to .Net Framework
- Basic functionality of CLR
- MSIL
- CTS &CLS
- .Net Languages
- System Requirements

C#-THE LANGUAGE

- Writing Programs in C#
- Compiling and executing from command prompt
- Conditional statements
- Loops
- Structures
- Introduction to assemblies and namespaces
- Base class Libraries
- Datatypes
- Boxing and Un-Boxing
- Array
- Collections

OBJECTS ORIENTED PROGRAMMING

- Structure Vs Class
- Access Specifier
- Properties
- Method Overloading
- Operator Overloading
- Constructors
- Shared Modifiers
- Inheritance
- Overloading and Overriding
- 'THIS' Keyword
- Sealed class
- Interface
- Polymorphism
- Early-binding and Late-binding
- Destructors

MEMORY MANGEMENT

- Garbage Collector
- Stack and Heap
- System.GC class

EXCEPTION HANDLING

- System defined exceptions
- Custom exceptions
- Try, Catch and Finally structure
- Throwing exceptions

GUI APPLICATION DEVELOPMENT

- Introduction to "system.Windows.Form.DLL"
- Basic Controls rich text box, dialog
- Boxes and toolbars
- Working with context menus
- Main menu and MDI form
- Visual Inheritance

WINDOWS CONTROL LIBRARY

- Creating user controls
- Creating custom controls
- Creating user controls by extending and existing controls

DELEGATES

- Introduction to delegate concepts
- Even handling architecture with delegate

DATA ACCESS WITH ADO.NET

- Introduction to data access,libraries and DAO
- RDO and ADO
- Drawback of ADO
- ADO.NET managed data providers
- Introduction to system.Data.OleDb
- Datareader
- Introduction to System.data sqlclient
- Prepared statement
- Transaction Handling
- Introduction to System.Data.OracleClient
- Dataset and DataAdapter
- Databinding
- Datagrid programming
- Dataview
- Datarelation

CRYSTAL REPORTS

FILE STREAMS

ADVANCED CONCEPTS

MULTI THREADING

- Thread class
- Sleep, suspend and resuming thread
- Asynchronous connection
- Synchronization of thread

ASSEMBLIES

- Introduction to COM architecture
- Disadvantage of COM
- Introduction to assemblies
- Private Vs shared Assemblies
- Creating private assembly
- Probing and preparing configuration file
- Strong name utility
- Creating shared assembly
- CLR Architecture
- Native generator utility
- Assembly versioning
- Compatibility of assembly
- Configuration file for shared assembly

WINDOWS SERVICES

- Introduction to window services
- Creating your own windows services

WHAT IS NEW IN C# 2.0?