



Course Brochure

VB.NET

Overview

•The course starts with a quick overview of the .NET platform, examining assemblies, Microsoft Intermediate Language, Visual Studio profiles, XML comments, IntelliSense, and debugging. From there, you will learn all the Visual Basic 2008 language features that you must internalize in order to create full-featured Web or Windows applications that make best use of the .NET 3.5 platform.

Pre-requisites

•General Programming Experience

Applications

COURSE CONTENTS

MICROSOFT .NET OVERVIEW

- ❖ Why .Net?
- ❖ Intro to .NET Framework
- ❖ Basic Functionality of CLR
- ❖ MSIL
- ❖ CTS & CLS
- ❖ .NET Languages System Requirements

INTRO TO VB .NET

- ❖ Features of VB.NET 2008
- ❖ Writing Programmes in VB.NET
- ❖ Compiling and executing from Command prompt
- ❖ Intro to Assemblies and Namespace
- ❖ Base class Libraries
- ❖ Data types
- ❖ Boxing and unBoxing
- ❖ Array
- ❖ Sub Programmes

INTRO TO VISUAL STUDIO.NET

OBJECT ORIENTED PROGRAMMING

- ❖ Principles of OOP
- ❖ Structure Vs Class
- ❖ Access Specifiers
- ❖ Properties
- ❖ Method Overloading
- ❖ Constructors
- ❖ Shared Modifier
- ❖ Inheritance
- ❖ Overloading and overriding
- ❖ MyBase Keyword
- ❖ Abstract Class
- ❖ Sealed Class
- ❖ Interface
- ❖ Polymorphism
- ❖ Destructor & Garbage Collector

GUI APPLICATION DEVELOPMENT

EXCEPTION HANDLING AND DEBUGGING

ASSEMBLIES

- ❖ Intro to Assembly
- ❖ Private Assembly VS Shared Assembly
- ❖ Creating private Assembly
- ❖ Strong Name Utility
- ❖ Creating shared Assembly
- ❖ CLR Architecture
- ❖ Assembly Versioning
- ❖ Partial class
- ❖ Extension methods

DATA ACCESS WITH ADO .NET

- ❖ Intro to Data Access Libraries DAO
- ❖ RDO and ADO
- ❖ Draw Backs of ADO
- ❖ ADO.NET managed Data Providers
- ❖ Intro system. Data. Oledb
- ❖ Data Reader
- ❖ Data Set
- ❖ Intro to system. Data. SQL client
- ❖ Transaction handling
- ❖ Intro to system. Data. Oracleclient

DELEGATES

- ❖ Intro to Delegate concept
- ❖ Event handling Arch with delegate
- ❖ Handle. Add Handler and Remove Handler

MULTI THREADING

- ❖ Thread Class
- ❖ Sleep, Suspend and Resuming Thread
- ❖ Asynchronous Connection
- ❖ Synchronization of Threads

COURSE CONTENTS

WINDOWS CONTROL LIBRARY

DISTRIBUTED APP DEVELOPMENT

- ❖ Intro to monolithic, 2 Tier and 3 Tier Arch
- ❖ Intro to DCOM
- ❖ Disadvantage of DCOM
- ❖ Intro to remoting
- ❖ TCP and HTTP Channels
- ❖ Serialization and Deserialization with Binary Formatter and SOAP Formatter
- ❖ Activation modes Server Activated and Client Activated
- ❖ Server Activated (Single call and single ton)
- ❖ Remoting Architecture
- ❖ Apps for server Activated and client Activated

INTEROPERABILITY WITH COM

- ❖ Managed code and unmanaged code
- ❖ Using active XDLL in VB.NET App
- ❖ RCW
- ❖ Using .NET Assembly in VB-6.0 App
- ❖ CCW
- ❖ Regasm

CRYSTAL REPORTS

PACKAGE AND DEPLOYMENT

WINDOWS SERVICE

- ❖ Intro to service App
- ❖ Service Base Class
- ❖ Service Installer and Service
- ❖ Process installer
- ❖ Registry Data Base of Services
- ❖ Installutil Utility
- ❖ SCM and SCP

LOCALIZATION AND GLOBALIZATION

- ❖ Resource file creation
- ❖ Satellite Assembly Creation
- ❖ Creating Globalization App and Localization APP

SPEECH TRANSLATION

WINDOWS PRESENTATION FOUNDATION

- ❖ WPF Shapes
- ❖ Media element
- ❖ Animation
- ❖ Brushes
- ❖ Transformations