

Deccansoft Software Services

(A Microsoft Learning Partner)

Module 1:-- MS.NET Framework Introduction

- ❖ Everything About Microsoft .Net Framework
- ❖ Framework Types Of Application
- ❖ Framework Base Class Library
- ❖ Framework MSIL and PE
- ❖ Framework-CLR

Module 2:-- VS.NET and Entry Point Method - Main

- ❖ Visual Studio Overview and Installation
- ❖ First .Net Application
- ❖ Command Line Arguments
- ❖ Return Value of Main
- ❖ Resolve Main Ambiguity
- ❖ Using Command Line Compiler
- ❖

Module 3:-- C# Language Syntax

- ❖ C# Introduction and Evolution
- ❖ Data Type Value Type and Reference
- ❖ Implicit and Explicit Casting
- ❖ String and String Builder
- ❖ Object Boxing & Unboxing
- ❖ Constant and Enum
- ❖ Operators
- ❖ Control Statement
- ❖ Working with Arrays
- ❖ Multi-Dimensional Arrays
- ❖ Working with Methods
- ❖ How to become an Extraordinary Programmer

Module 4:-- OOPs – Concepts

- ❖ Object Oriented Programming Concept

Module 5:-- OOPs - Programming Encapsulation

- ❖ Writing Class And Initializing Objects
- ❖ Destroying Objects and Role Of Garbage Collection
- ❖ Writing Methods in Classes
- ❖ Working with Properties in Class
- ❖ Constructor and Destructor
- ❖ Static Members

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Module 6:-- OOPs - Inheritance

- ❖ Protected Keyword And Constructors In Inheritance
- ❖ Casting Between Reference Types
- ❖ Static And Dynamic Binding
- ❖ Abstract Class And Methods
- ❖ Object Class As Parent

Module 7:-- OOPs - Interface & Polymorphism

- ❖ Polymorphism And Syntax Of Interface
- ❖ Explicit Implementation And Casting
- ❖ Types Of Interface

Module 8:-- Collections and Generics

- ❖ Introduction To Collection Of Classes
- ❖ IEnumerable, IComparable And IComparer Interface
- ❖ Writing Generic Classes And Methods
- ❖ Generic Collection Classes

Module 9:-- Assemblies and GAC

- ❖ Assemblies Introduction And Working With ClassLibrary
- ❖ Shared Assemblies And GAC

Module 10:-- Exception Handling

- ❖ What Exception And Behavior Of Try And Catch Blocks
- ❖ Throw And Finally Keywords
- ❖ Writing Custom Exception

Module 11:-- Streams

- ❖ What Is Streams And Types Of Streams
- ❖ Standard IO Streams
- ❖ Dealing With FileStreams
- ❖ Binary Reader And Binary Writer
- ❖ Working With File System
- ❖ Serialization And Deserialization

Module 12:-- Unsafe Code

- ❖ Unsafe Code

Module 13:-- Reflection And Attributes

- ❖ Reflection

- ❖ Reflection And Attributes
- ❖ Pre-Defined Attributes
- ❖ Custom Attributes

Module 14:-- More On Classes

- ❖ Operator Overloading
- ❖ Partial Classes And Methods
- ❖ Extension Methods
- ❖ Anonymous Types And Tuple
- ❖ App.Config Configuration File

Module 15:-- Developing GUI Application Using WinForms

- ❖ WinForms Working With Controls
- ❖ WinForm Working With Controls
- ❖ Container Control
- ❖ Graphics And GDI Objects
- ❖ Interactive Drawing Examples
- ❖ Menu Strip, Context Menu Strip, Tool Strip And Status Strip
- ❖ Modal Dialog And Notepad Application
- ❖ Modeless Dialog Box
- ❖ MDI Interface
- ❖ Form Inheritance
- ❖ Adding Login Facility To Application
- ❖ Working With Resources And Settings
- ❖ Notify Icon For Adding Form To System
- ❖ Components Timer Background Worker File System
- ❖ Watcher And Process
- ❖ Drag And Drop
- ❖ Tree View And List View

Module 16:-- Database Programming Using ADO.NET

- ❖ ADO.NET Evolution And Role Of Managed Providers 40 mins
- ❖ Installing SQL Server And Management Studio 10 mins
- ❖ Establishing Connection With Database And Connection Pooling 45 mins
- ❖ Executing Insert, Update And Delete Commands 35 mins
- ❖ Fetching Data Using Select Command 30 mins
- ❖ How to Implement Login in Application 17 mins
- ❖ Multiple Active Resultsets 18 mins
- ❖ Parameterized Prepared Statements 50 mins
- ❖ Executing Stored Procedures 32 mins
- ❖ Managing Database Transaction And DTC 39 mins
- ❖ Asynchronous Execution Of SQL Commands 21 mins
- ❖ Writing Managed Provider Independent Code 20 mins
- ❖ Writing Utility Class With Common Code 16 mins Summary And API Used

Deccansoft Software Services**SQL Server Analysis Service****Module 17:-- Managing Data Using DataSet**

- ❖ Introduction to DataSet
- ❖ Filling And Updating DataSet And DataTable Using DataAdapter
- ❖ Adding, Editing And Deleting Rows in DataTable
- ❖ DataAdapter Events
- ❖ Handling Optimistic Concurrency
- ❖ Sorting And Filtering With DataView
- ❖ Constraints And Data Relations Object
- ❖ Dynamically Creating DataSet And Typed DataSet
- ❖ Summary.

Module 18:-- N-Tier Layered Architecture Applications

- ❖ What is Tier and Layer
- ❖ N-Tier Architecture And Role Of Each Layer
- ❖ Developing N-Tier Architecture Application
- ❖ Developing GUI For Application

Module 19:-- XML

- ❖ XML Introduction and Terminology
- ❖ XML DOM Reading XML Document
- ❖ XML DOM CRUD OPERATIONS
- ❖ Using XPath To Filter
- ❖ XML And DataSet Interoperability
- ❖ XML TextWriter And XML TextReader
- ❖ XPath Document And XPath Navigator.

Module 20:-- Windows Services

- ❖ Introduction And Windows Service Template For Express Edition
- ❖ Develop Deploy And Lunch Windows Service
- ❖ Service Controller Application

Module 21:-- Delegates & Events

- ❖ Declaring And Using Delegates
- ❖ Chat Application Using Delegates
- ❖ Declaring Raising And Handling Events

Module 22:-- User Control and Custom Control

- ❖ User Control
- ❖ Inheriting User Control
- ❖ Custom Control

Module 23:-- Delegates & Events

- ❖ Declaring And Using Delegates
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- ❖ Declaring Raising And Handling Events

Module 24:-- User Control and Custom Control

- ❖ User Control
- ❖ Inheriting User Control
- ❖ Custom Control

Module 25:-- Multithreading

- ❖ Multithreading Overview
- ❖ Programming Threads
- ❖ Thread Priority
- ❖ Suspend Resume Interrupt And Cross Thread Operations
- ❖ Thread Pool
- ❖ Sync Using Monitor
- ❖ Sync Using Mutex
- ❖ Sync Using Semaphore And Events
- ❖ Async Programming

Module 26:-- Debugging and Diagnostics

- ❖ Debugging Features In VS.NET
- ❖ Diagnostics API

Module 27:-- Packaging and Deployment

- ❖ Packaging Introduction & File System Editor
- ❖ User Interface Editor
- ❖ Custom Actions and Launch Condition Editors
- ❖ Creating Shortcut to Uninstall

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