<u>Deccansoft Software Services</u>

(A Microsoft Learning Partner)

Module 1:- Developing GUI Application Using WinForms

In this module we concentrate on Introduction to WindowsForms and we understand

- ❖ What are Windows Forms and how they bring Rich GUI to the Application
- ❖ what are the controls that have in the WindowsForms
- ❖ what are the important properties of the controls
- ❖ what are the important Events that each control have
- ❖ What are the Container controls
- ❖ what are Graphical Objects
- ❖ what are GDI objects
- ❖ What is MenuStrip, ContextMenuStrip, ToolStrip And StatusStrip
- ❖ How to work with Model Dialog
- ❖ How to develope a Notepad Application
- ❖ What is Modeless dialog Box
- ❖ What is Multiple Document Interface
- ❖ What is Form Inheritance
- ❖ How to Add Login Facility to the Application
- ❖ How to work with the Resource files
- ❖ what is NotifyIcon Control
- ❖ What is Timer control
- ❖ How to Drag and Drop the Files
- ❖ What is a Treeview
- ❖ What is a ListView

Module 2:- ADO.NET Part1 - Managed Provider Objects

In this module we concentrate on Introduction to Ado.net, Architecture of ADO.net and we understand that

- ❖ What is a Manage Provider and important objects in it?
- ❖ How to Install SQL server and Management Studio
- ❖ How to establish a connection to Database
- ❖ what is Connection Pooling
- ❖ How to insert, Update, Delete the data in the Database from the Application
- ❖ How to Fetch Data from the Database using Select command
- ❖ How to implement Login to the Application using Database
- ❖ what is MultipleActiveResultSets
- ❖ what is Parameterized Prepared Statement
- ❖ How to write stored procedures in Backend
- ❖ How to Execute storedprocedures from front end Application
- ❖ what are the Transactions
- ❖ How to Manage the Transactions using Transaction Scope
- ❖ What is Asynchronous Execution of SQL Commands
- ❖ How to write Provider independent code
- ❖ what is utility class

Module 3:- ADO.NET Part2 - DataSet Object Model

In this module we concentrate on

- ❖ What are DataAdapter events
- ❖ How to handle Concurrency issues if multiple users performing operations on same Data
- ❖ How to sort and filter the data using DataView
- ❖ what are the constrains in the DataTable and how to Add the constrain to the DataTable
- ❖ what is a DataRelation object
- ❖ How to create DataSet/ DataTable Dynamically without using DataAdapter
- ❖ what is Typed Dataset

Module 4:- N-Tier Layered Architecture Applications

In this module we concentrate on N-Tier Layered Architecture

- ❖ Introduction to N-Tier
- ❖ what is a Tier and what is a Layer
- ❖ what is the Role of Presentation layer, Data layer, Business object Layer, DAO layer
- ❖ How to design a GUI for the Application
- ❖ How to use Helper class and Enum
- ❖ How to pass the data from one Layer to another Layer

Module 5:- XML

In this module we concentrate on XML and we understand

- ❖ What is a XML and XML parser
- ❖ what is DOM parser
- ❖ How to perform CRUD operations on XML DOM
- ❖ How to get the reference to nodes in XMLDocument using XPath
- ❖ How XML works with DataSet
- ❖ What is XML Textwriter and XML TextReader
- ❖ what is XPath Document and XPath Navigator

Module 6:- Windows Services

In this module we concentrate on Windows Service and we understand that

- ❖ What is a Windows service
- ❖ How to create a new windows service Template
- ❖ How to Install/Deploy windows service in the OS
- ❖ How to Launch a Windows Service
- ❖ How to develop an Application for controlling the Service

Module 7:- Delegates & Events

In this module we concentrate on Delegates and their working and we understand that

- ❖ What is a Delegate
- ❖ How to create a chat application using Delegates
- ❖ How to raise an event using Delegates
- ❖ what are Anonymous Methods

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Module 8:- User Control and Custom Control

In this module we concentrate on   User Control and we understand that

- ❖   what is User Control
- ❖   what is composite control
- ❖   How to inherit the User Control
- ❖   what is a custom control

Module 9:- MultiThreading

In this module we concentrate on MultiThreading and we understand

- ❖   What is process and Thread
- ❖   what is difference between MultiThreading and Multitasking
- ❖   what is scheduling and types of scheduling
- ❖   How to set the Thread priority
- ❖   How to suspend, Resume, Interrupt, Abort and get the status of Thread
- ❖   what is cross Thread operation
- ❖   what is Thread pool
- ❖   what is Thread Synchronization
- ❖   What is critical section
- ❖   what is Mutex
- ❖   what is Semaphore
- ❖   what is Task parallel programming
- ❖   what is Async Programming

Module 10:- Debugging and Diagnostics

In this module we concentrate on   Debugging and Diagnostics and we understand

- ❖   What is Debugging
- ❖   what is Build Configuration (Debug and Release)
- ❖   what are List of Debugging Windows
- ❖   what is Break Point Hit Count and Condition
- ❖   what are Debugging Exceptions
- ❖   What is Diagnostics
- ❖   what is Debug and Trace Classes
- ❖   what are Types of Listeners
- ❖   what is Boolean and Trace Switch

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