

Advanced Microsoft .NET Framework Programming

Course Description

In this Course you learn how to programming .NET framework classes. This class will teach you to programming with COM object, using Reflection, sending mail in .NET and provide you the technique to configure an .NET application also with multithreading application.

Course Level

Advanced

Who should attend?

Programmers who want to Programming .NET Application and Support who want to take Microsoft Exam 536

Pre-requisites

Good understanding concept of Programming .NET Application.

Course Objectives

- Interoperate .NET with other Programming Application
- Using Reflecting to Call DLL without References
- Create an Application to Send Internet Mail
- Increasing .NET Application using Threading
- Control .NET Application using Application Domain
- Creating a Windows Service

Course Durations

12 Hours

Course Outline

1. Interoperation

Using COM Objects
Exposing .NET Component to COM
Using Unmanage Code
Calling Windows API

Hand-On Labs:

Calling COM Object
Calling .NET Object from VB Script
Using Windows API

2. Reflection

Understanding Reflection
Assembly Attributes
Reflecting Types
Writing Dynamic Code
Creating Code at Runtime

Hand-On Labs:

Get Assembly Information
Calling DLL without References
Creating a Dynamic Code

3. Mail

Creating a Mail Message
Sending Mail

Hand-On Labs:

Creating and Sending Mail
Sending Mail with Attachments

4. Threading

Creating Threads
Passing Data to Threads
Stopping Threads
Execution Context
Synchronization Locks
Using the ThreadPool
Using Timer Objects

Hand-On Labs:

Use the Thread Class
Use a Mutex
Use the ThreadPool to Queue Work Items

5. Application Domains and Services

Creating Application Domains
Configuring Application Domains

Hand-On Labs:

Control Application Domain Privileges
Creating Domains and Loading Assemblies

6. Windows Services

Understanding a Windows Services
Create a Windows Services Application

Hand-On Labs:

Create, Install, and Start a Service

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