

Microsoft .Net 2008 with 3.5 Framework (COURSE CURRICULUM)

DURATION: 5 Months

IMPLEMENTATION LANGUAGE C# AND VB.NET

➔ INTRODUCTION OF .NET

- Usage of .Net
- D.N.A. Architecture
- One Tier
- Two Tier
- Three Tier
- N-Tier

➔ COMMON LANGUAGE RUNTIME(C.L.R)

- CLR Architecture and Services
- The .Net Intermediate Language(IL)
- Just- In-Time Compilation and CLS
- Disassembling .NET application to IL
- Strict Type Checking

➔ .NET FRAMEWORK CLASS LIBRARY

- System Namespace
- System. Object Namespace
- System. Collection Namespace
- System. Type
- Exception

SYNTAX AND DATA TYPES

➔ LANGUAGE FUNDAMENTALS

- Data Types and Control Constructs
- Declaring and initializing variables
- Value and reference types
- Unicode characters and Strings
- C.T.S Type
- Implicitly Typed Local Variables



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- Conditional Syntax
- C# Operators
- Looping Syntax
- Array
- Structure

OOPS CONCEPT, INHERITANCE AND NAMESPACE

➔ CLASSES

- Encapsulating Attribute
- Defining Constructor
- Defining Method
- Overloading Methods and Constructor
- Creating Property
- Defining Read-Only, write-Only and indexer property
- Creating and using Objects
- Memory Allocation with new keyword
- Passing initial values with constructor
- Invoking Method and Property
- C# 3.0 Feature Object initialization Expression
- C# 3.0 Feature Lambda Expressions Extension
- Methods and LINQ
- Anonymous Types in C# 3.0 Nested for LINQ
- Query Execution

➔ INHERITANCE

- Implementing inheritance hierarchy
- Constructor Basic
- Method Overriding
- Abstract Class and Sealed class
- “is a” Versus “has a” relationship
- Exposing interface
- Implementation interface in a class
- Interface Polymorphism
- Operator Overloading
- Class Access Modifiers
- Namespace



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➔ EVENT AND DELEGATE

- Event Overview
- Delegate and events relation
- User define events
- Delegate creations and types

➔ COLLECTION

- Array List
- Hash Table
- Queue
- Stack
- ICollection interface
- IEnumerable interface
- IEnumerator interface
- IDictionary enumerable interface
- Dictionary & Entry structure
- Boxing Vs. UnBoxing

➔ GENERIC

- List
- Dictionary
- Stack
- Queue
- Name value Collection
- String Dictionary
- Bitvector32

➔ FILE HANDLING

- System. IO Namespace
- Stream reader and stream write class
- File and directory class
- Path class
- Reading and Writing a file

➔ MULTITHREADING

- Namespace System.Threading.Thread
- Namespace System.Threading.Threadstart
- Thread safety concept
- Thread Property and Methods



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- Thread Life Cycle
- Check ForIlligle crossThread call property
- Thread Synchronization

➔ **DATE & STRING METHODS**

- Date Time Class
- Date Time class methods and Property
- String class methods and property

➔ **EXCEPTION HANDLING**

- Introduction of Exception and their Types
- Built in Exception
- Handle Exceptions with Try, catch, Finally
- Throw Keyword
- Customizes message assignment
- Custom Exception

➔ **FORM AND CONTROL**

- Building window form application
- Programming forms and control
- Design window user interfaces, constructing MDI interface
- Implementing MDI parent and child Forms, implementing Menu strip, Tool . Strip, Status Trip, Rich Text box, Tool tip, Error Provider Etc.
- Creating Custom Control.

➔ **MEMORY MANAGEMENT**

- Introduction of Memory Management
- Garbage Collection
- System.GC Namespace
- The IDisposable Pattern
- Suppressing Finalization
- Automating disposal with the using block



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ADO .NET

➔ EVOLUTION OF ADO.NET

- How ADO.NET works and how it differs from ADO
- Evolution of ADO to ADO.NET

➔ ADO.NET AND IT'S ARCHITECTURE

- The Connection Object
- The Command Object
- The Data Reader Object
- The Data Adapter Object
- Dataset
- Concurrency and the disconnected data architecture
- When to use the Dataset
- Provider

➔ DATASET

- Creating Table in Dataset
- Data Column
- Data Row
- Data Table
- Tables Events
- Saving Dataset Changes with Command builder

➔ CONNECTIONS AND COMMAND OBJECT

- Connection Object
- Understanding Connection Pooling
- Command Object
- ExecuteNonQuery
- Execute Scalar

➔ DATA READER

- Reading Data in Connected mode
- Accessing Value
- Execute Reader method



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➔ DATA VIEW

- Row State Filter
- Sort Property
- Update records via Data view
- Insert record via Data view
- Delete record via Data view

➔ DATA RELATION

- Creating relation
- Public property of Data relation

➔ ADDING CONSTRAINTS TO A TABLE

- Foreign Key Constraint
- Unique Constraint
- Defining Primary Key

➔ SCHEMAS

- Schema Type
- Missing Schema action Members

➔ TRANSACTION

- Introduction of Transaction (ACID)
- Transaction Class
- Method and Property
- Commit and Rollback

ADVANCE TOPIC

➔ REMOTING

- Introduction
- Remoting Architecture and .NET Remoting Scenarios
- Creating .NET Remoting Objects
- Hosting a remote Object
- Activation Type
- Marshal Object
- Creating and using Channel



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➔ REFLECTION

- Introduction of Reflection
- The Core Reflection Classes
- Assembly class
- Method info class
- Property info class
- Browsing and Querying Members
- Invoking Methods Setting Fields and Properties

➔ ASSEMBLY AND DEPLOYMENT

- Manifests and Assemblies
- DLL Hell Problem
- Private Vs. Shared Assemblies
- Assigning version
- The Global Assembly Cache
- Storing name Creation
- Deployment of Assembly

ASP.NET INTRODUCTION OF WEB

WHAT IS ASP.NET, AN INTRODUCTION

➔ INTRODUCING WEB FORMS

- What is ASP.NET Web Forms
- Writing Your First Web Forms Page

➔ INTRODUCTION TO HTML CONTROL

- HTML Control Class
- Implementing the Controls

➔ WORKING WITH SERVER CONTROLS

- Declaring Server Controls
- Manipulating Server Controls
- Handling Control Action Events



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- Handling Multiple Control Action Events
- Performing Page Navigation(Scenario 1)
- Performing Page Navigation(Scenario 2)
- Http Request Class
- Http Response Class
- Http ServerUtility Class

➔ SERVER CONTROL FORM VALIDATION

- Introduction to Validation
- Types of Validation Controls
- Client- Side Validation
- Displaying Validation Errors
- Working with Compare Validator
- Working with Range Validator
- Working with Regular Expression
- Performing Custom Validation

➔ WEB FORMS CONTROLS

- Server Control
- Navigation Control
- Standard Control
- Introduction to User Controls
- Exposing User Control Properties
- Encapsulating Events in a User Control

➔ DATA BINDING SERVER CONTROLS

- Data Binding Overview and Syntax
- Binding to Simple Properties
- Binding to Collections & Lists
- Binding Expressions or Methods
- DataBinder.Eval()

➔ STATE MANAGEMENT

- State Management: introduction
- Cookies
- Http SessionState Class



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- Application Class
- Using the Session
- Cleaning Up After Using Session State
- In – Process Session State
- Session State Using a State Server
- Storing Session State in SQL Server

- Application State Considerations
- Global.asax
- Web.config

➔ MASTER PAGE

- How Master Page Works
- Content Placeholders
- Content Pages
- Advantages of Master Pages

➔ SKIN AND THEME

- Cascading Style sheets
- Scoping Themes
- Themes Vs. Cascading Style Sheets
- Create a skin
- Apply a theme to a website

➔ CACHING

- Page Output Caching
- Page Fragment Caching
- Data Caching
- Expiring Items from the Cache

➔ WEB SERVICES

- Introducing XML Web Services
- ASP.NET Web Services
- Accessing Web Services
- Write a Simple Web Services
- Precompiled XML Web Services



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- Consuming a XML Web Services from a Client Application
- XML Web Service Type Marshaling
- Use Data in XML Web Services
- The Web Service Behavior

➔ ASP.NET AJAX

- Why Use ASP.NET AJAX, Features
- Architecture of AJAX Features in ASP.NET
- Creating an ASP.NET AJAX – enabled Web Site
- Understanding and Working with UpdatePanel
- Understanding the Benefits of the UpdatePanel Control
- Understand Update Progress
- Creating an AJAX – enabled Website

➔ SECURITY

- Windows
- Form
- Passport
- Login Control
- Administrative site

➔ GLOBALIZATION AND LOCALIZATION

- Understand Culture and UI Culture
- Initialize Culture Method
- Set the Culture and UI Culture for ASP.NET Web Page

➔ XML

- What is XML
- XML Document Structure and Syntax
- System.xml Namespace
- XML documentation, xmlreader, xmlnode, xmlodelist, xmlwriter classes.
- Reading and Writing XML file.

➔ CRYSTAL REPORT

- Crystal Report Overview
- Getting start with Crystal Report



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- Creating Basic Report
- Working with sub Report
- Integration with Windows Application
- Customizing Appearance and Layout of Report Viewer
- Creating Xml Report Web Service
- Working with .Net Data
- Adding a Database or Table to a Report
- Working with ADO.NET
- Formulas and Logic

THE SQL SERVER MANAGEMENT STUDIO 2005

➔ QUERY WINDOW

- The Foundation Statement of T-SQL
- Started with SELECT Statement
- Adding Data with the INSERT Statement
- Changing What You've Got with the UPDATE Statement
- The DELETE Statement

➔ JOINS

- Inner Joins
- Outer Joins
- Cross Joins

➔ UNION

➔ CREATE STATEMENT

- Create Database
- Create Table

➔ ALTER STATEMENT

- Alter Database
- Alter Table

➔ DROP STATEMENT

➔ CONSTRAINTS

- Types of Constraints
- Domain Constraints
- Entity Constraints



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- Referential Integrity Constraints
- Constraint Naming
- Key Constraints
- PRIMARY KEY Constraints
- FOREIGN KEY Constraints
- UNIQUE Constraints
- CHECK Constraints
- DEFAULT Constraints
- Disabling Constraints

➔ RULES

- Defaults
- Determining Which Tables and Data types Use
- Given Rule or Default
- Triggers for Data Integrity
- Choosing What to Use

➔ ADDING MORE TO QUERIES

- What is Subquery
- Building a Nested Subquery
- Correlated Sub queries
- How Correlated sub queries work
- Correlated sub queries in the WHERE Clause
- Dealing with NULL Data – The ISNULL Function Derived Tables
- EXISTS Operator
- Using EXISTS in Other Ways
- Mixing Data types : CAST and CONVERT

➔ UNDERSTANDING INDEXES

- How Data is Accessed in SQL Server
- Creating, Altering, and Dropping indexes
- CREATE INDEX Statement

➔ VIEWS

- Simple Views
- Views and Filters
- More Complex Views
- Editing Views with T-SQL



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- Dropping View
- ➔ **STORED PROCEDURE**
 - Basic Syntax
 - Changing Stored Procedure with ALTER
 - Dropping Stored Procedure
 - Handling Errors
- ➔ **TRANSACTIONS**
 - BEGIN TRAN
 - COMMIT TRAN
 - ROLLBACK TRAN
 - SAVE TRAN
- ➔ **TRIGGERS**
 - What is Trigger
 - With Encryption
 - The For|After Vs. insteadOf Clause
 - With Append
 - Not For Replication
 - Using Triggers for Data integrity Rules
 - Dealing with Requirements Sourced from Other Tables
 - Using Triggers to check the Data of an Update
 - Using Triggers for Custom Error Message
 - Other Common Usage for Triggers
 - Other Trigger Issues
 - Triggers can be Nested
 - Triggers Can be Recursive
 - Dropping Triggers
- ➔ **USING XML**
 - Retrieving XML by Using FORXML
 - Shredding XML by Using OPENXML
 - Introducing Xquery



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➡ LIVE PROJECT

➡ FEATURES :

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- ❖ STUDY MATERIAL
- ❖ CD FOR REQUIRED SOFTWARE
- ❖ WELL EQUIPED LAB
- ❖ UNINTERRUPTED POWER BACK UP
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