

MICROSOFT .NET WITH LIVE PROJECTS DEVELOPMENT TRAINING

(INCLUDES COMPLETE C#.NET, ASP.NET, VB.NET, ADO.NET, XML, WEB SERVICES, WINDOWS SERVICES, REMOTING, THREADING, ASP.NET AJAX, SILVERLIGHTS, LINQ, WPF, WCF, WF, CRYSTAL REPORT, MS SQL SERVER AND MORE...)

C#.NET

Introduction

What is .NET?
What are C# and MSIL?
Introduction to Visual Studio .NET
.NET SDK and Tools

C# Fundamentals

Console IO
Simple "Hello Universe!" program
Comments and Documenting
Common Language Runtime
Base Class Library
Namespaces

Type Hierarchy

Object and Basic types
References and Values
Boxing

Classes vs. Structures

Constructors
Fields and Methods
Overloading
static and constant
public, private, protected, sealed
Properties and Indexers
Garbage Collection

Iteration and Flow of Control

Relational operators
Collections (Array List, Hash Table)
for and for each loops
while and do-while loops
Conditional expression
Switch statement

Arrays

Initialization
Accessing an arrays
Multi-Dimensioned arrays

Exception Handling

Exceptions
try...catch
try...finally
Throwing exceptions

Inheritance - Polymorphism

Virtual methods
Abstract methods
Override methods

Interfaces

Defining Interfaces
Implementing interfaces
Incomparable, Closeable

C# Event Model

Delegates and events

Win Forms

Simple Windows Application & Form Controls
Event Handling event procedure
Use of Class Library (User Controls)

ADVANCE TOPICS

Assemblies

Private vs. Shared
Strong Names
Versioning

Remoting

N-tier Architecture
Assemblies
Windows Services

Streams

File Stream
Stream Reader
Stream Writer

Threading Support

Threads and synchronization

Performance in C#

Writing code to maximize performance

Reflection

Querying for type information
AppDomain

Interoperability

With Win32
With COM
With other .NET modules

PROGRAM HIGHLIGHTS

- LIVE ISSUES
- INTERVIEW QUESTIONS
- PROJECT EXPERIENCE
- RESUME PREPARATION
- INDUSTRY LECTURES
- SILK TEST

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ASP.NET

Introduction

.NET Framework Overview

ASP.NET Introduction

Web Forms

- Server Controls
- Validation Controls

Web Forms Exercise

State Management Techniques

- Session
- Applications
- View state
- Cookies
- And Caches

Object Orientation

State Management Exercise

Object Orientation in .net

- OO Overview
- Creating Classes
- Using Inheritance

OO Exercise

Creating **Web** User Controls

- Creating properties in controls

Web User Controls Exercise

Advance Topics

Master Page Concept

Skin , Theme and CSS

Security Configuration

Login Controls

Introduction to Web Services

- Introduction to XML Web services
- Creating Web Service
- Setting the Web Service Attribute
- Test and Run Your Web Service
- Consuming a Web Service in Client Application
- Consuming a Third Party Web service

Data & ADO.NET I

Debugging, Tracing & Error Handling Techniques

Debugging, Tracing & Error Handling Exercise

Data Binding

- Creating Data sources for Data Binding
- Data Binding Controls
- Using template controls: Repeater, Data List

Data Binding Exercise

ADO.NET Object model

- ADO.NET Connections
- ADO.NET Commands
 - Executing Commands
 - Using Stored Procedures
- ADO.NET Data Reader
- ADO.NET Transactions.

ADO.NET Command, Connections, Data Reader Exercise

Data & ADO.NET II

- ADO.NET Datasets
 - Working with disconnected data
 - Working with XML Data
 - Working with related data
 - Updating data & Concurrency Issues
- *Dataset Exercise*
- Editing data with the Data Grid
 - Sorting
 - Paging
 - Button Columns
 - Hyperlink Columns
 - Template Columns

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MS SQL SERVER

QUERY WINDOW

The foundation statement of t-SQL
Started with SELECT statement
The DELETE statement

JOINS

Inner joins
Outer joins

THE UNION

THE CREATE STATEMENT

Creating data base
Creating table

THE ALERT STATEMENT

Alter database
Alert table

CONSTRAINT

Types of constraints

- Domain constraints
- Entity constraints
- Referential integrity constraints

Constraint naming
Key constraints

- PRIMARY KEY Constraints
- UNIQUE Constraints
- CHECK Constraint
- DEFAULT Constraints

Disabling constraints

THE DROP STATEMENT RULES

Defaults
Determining which table and data type use a given rule or default

ADDING MORE TO OUR QUERIES

What is subquery?
Building a nested subquery, Correlated subqueries
Correlated subqueries in the WHERE clause
Dealing with NULL data –the ISNULL function
derived tables
The existing in other ways
Maxing datatypes: CAST and CONVERT

UNDERTANDING INDEXES

How data is accessed in SQL Server
Creating ,altering and dropping indexes
The CREATE INDEX statement

VIEWS

Simple views
Views as filters
More complex views
Editing views with T-SQL

Dropping views

STORED PROCEDURES

Basic syntax
Changing stored procedures with ALTER
Dropping store Procedure
Exception Handling

TRANSACTIONS CONTROLS

Begin tran
Commit tran
Rollback tran
Save tran

TRIGGERS

What is a trigger?
With encryption
The forafter vs.the instead of clause
With append
Not for replication
Using trigger for data integrity rules
Using triggers for custom error messages
Triggers can be nested
Triggers can be recursive
Dropping triggers

ADO.NET

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Introducing ADO.NET

ADO.NET Objectives and Architecture
Disconnected and Connected Data Programming
ADO.NET compared to 'classic' ADO Datasets
Benefits of ADO.NET

Managed Providers

The SQL and OLEDB Managed Providers,
Connection, Command and Data Reader objects,
Data Adapters, Parameterised Commands, Using
Stored Procedures

Database Theory

An understanding of SQL and relational databases,
Data Definition Language

Datasets

Working with Datasets, Loading Datasets using
XML, Loading Datasets using Managed Providers,
The Dataset Object Model, Dataset Navigation,
Sorting and Filtering, Data Views, Using Data
Relationships, Using Stored Procedures

Data Binding with ADO.NET

ADO.NET Data binding compared to classic ADO
Data binding, Binding to Windows Forms, Binding
to Web Forms, Using Table Mappings

Updating Data Sources

Performing Updates using Command objects,
Performing Updates using Datasets, Concurrency
Issues when using Datasets and Data Adapters,
Controlling the Order of Updates, Programming
Custom Updates, Using Transactions

Visual Programming with ADO.NET

Using Server Explorer, Database Design Tools,
Visual Data Objects

Typed Datasets

Benefits of Typed Datasets, Creating XML Schemas,
Creating and Customising Typed Datasets, Using
Typed Datasets

CRYSTAL REPORT

- Crystal report overview
- Crystal report with crystal report
- Creating basic report
- Working with sub report
- Integration with window application
- Customizing appearance and layout of report viewer
- Customizing xml report web service
- Working with .net data
- Adding a database or table or table to a report
- Working with ado .net
- Formulas and logic
- Report formatting
- Integration with web application
- Working with crystal report engine

ADVANCE COURSES IN .NET

ASP.NET AJAX

Understanding AJAX Technology
Web Application – Pre and Post Ajax
How AJAX Works
Building a ASP.NET Page with Ajax
Using UpdatePanel Control
AJAX Server Controls
AJAX Control Toolkit
Downloading and Installation
AJAX Control Toolkit Extenders

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LINQ (Language Integrated Query)

Getting Started with Standard Query Operators
Language Features Supporting the LINQ Project
More Standard Query Operators
Query Syntax
LINQ to SQL: SQL Integration
LINQ to XML: XML Integration

WPF (Windows Presentation Foundation)

.Net 3.0 and 3.5 Architecture Overview
Advantages of WPF
Building XAML Windows and Pages
Creating WPF applications in Visual Studio
Setting window Properties
Changing application settings
Implementing behaviors in code-behind files
Adding controls to containers
Setting properties in XAML
Handling window and control events with C#.Net
Opening and controlling other windows.
Architecting WPF Programs

WCF (Windows Communication Foundation)

What is WCF?
How does it work?
Why WCF?
Difference between WCF and Web Services.
Terms & Concept around WCF

- Address
- Binding
- Contract
- Endpoint

How do we use it?
How WCF works inside of AP.NET?
All about Binding

- Basic Http Binding
- Net TCP Binding
- Net Peer TCP Binding

Hosting Services in ASP.NET

SILVER LIGHT

Silver light Introduction
Silver light Architecture
Running Silver light Apps
Tools for Creating Silver light Apps
Difference in versions
Silver light XAML
Silver light Controls
Walkthrough of Expression Blend
Silver light Graphics, Media and Animations
Data Binding
Understanding Data Binding in Silver light
Data Binding Modes
Debugging, Testing, and Deploying Silver light Applications
Improving Silver light Application Performance
Data Binding Syntax

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Course Training Details

Environment like growing each and every day in life. You will get company mail account from first day of training and private limited company certificate which will be benefited at the time of interviews.

Program Duration: 60 Hrs. (Theory) Full Time / Part Time

Max Duration: 03 Months

Includes (Lab Practice, Resume/Interview preparation, FAQ's, Project)

Program Fee:

Total fees: Rs.5500/ (Service tax extra*)

Weekends or Weekdays option available.