



Developing Windows Applications Using VB.Net – ADO.Net – SQL Server / Oracle

MS.NET Framework

- Architecture of .NET Framework
- Different Type of Applications
- The Common Language Runtime (CLR)
- Common Type System (CTS)
- COMMON Language Specification (CLS)
- Types of JIT Compilers
- Memory Management & Garbage Collection
- MS.NET Base Classes Framework
- MS.NET Assemblies and Modules

Win Forms

- Introduction
- Controls
- Menus and Context Menus
- MenuStrip, ToolStrip.
- Graphics and GDI
- SDI and MDI Applications
- Dialogbox (Modal and Modeless)
- Form Inheritance
- Developing Custom, Composite & Extended Control

Essentials of Object-Oriented Programming

- Object and Class Definition
- Using encapsulation
- Inheritance & Polymorphism.
- Working with Classes and Objects
- Adding Variables and Methods
- Constructors and Destructors
- Memory Management and GC
- Shared Members
- Method Overloading & Operator Overloading
- Attributes and their Usage

Developing Console Application

- Command Line Parameters
- Language Basics
- Boxing and Unboxing
- Control Statements
- Arrays and Strings

Working with Collection

- List and Dictionary
- Array List and Hash Table
- Generic Classes
- Custom Collection Classes
- IEnumerable and IEnumerator.

Exception Handling

- Handling Exceptions using Try and Catch
- Raising Exceptions using Throw
- Pre-defined Exception Classes
- Custom Exception Classes
- Using Statement

Database Programming Using ADO.NET

- ADO.NET Concepts and Overview
- Managed Providers
- Working with connection, Command & Data reader
- Connection Pooling and Multiple Active Results Sets
- Working with DataSet
- Adding, Deleting and Modifying Records in a Dataset
- Data Tables – Data Columns and DataRows, Constraints and DataReations
- Using Data View

Free
Oracle / SQL Server
+
Project



Developing Web Applications Using C#.Net – ASP.Net

C# Course Outline:

Essentials of Object-Oriented Programming

- Object and Class Definition
- Using encapsulation
- Inheritance & Polymorphism.
- Working with Classes and Objects
- Adding Variables and Methods
- Constructors and Destructors
- Memory Management & GC
- Shared Members
- Method Overloading
- Operator Overloading
- Attributes and their Usage
- Interfaces
- Overriding Methods
- Abstract Class

Working with Collection

- List and Dictionary
- Array List and Hash Table
- Generic Classes

Exception Handling

- Handling Exceptions using Try and Catch
- Raising Exceptions using Throw
- Pre-defined Exception Classes

Database Programming Using ADO.NET

- ADO.NET Concepts and Overview
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- Working with connection, Command & Data reader
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ASP.Net Course Outline:

Introduction

- ASP Architecture
- ASP Objects

Overview

- ASP.NET Architecture
- Virtual WebServer

Web Forms

- Introduction
- Advantages
- Comparison with HTML Form
- Event Model
- View State Management

Using Web Controls

- HTML Server controls
- Standard ASP.NET Server Controls
- Navigational controls
- Validation Controls
- Validation Groups
- Web User Controls

Creating a Layout Using Master Pages

- URL Rebasing in a Master Page.
- Accessing a Master Page from Code
- Master and Content Pages

Applying Styles to Controls

- Using Themes to Customize a Site
- Contents of a Theme and Skin

Data Access Controls

- Data binding Server Controls
- SqlDataSource ObjectDataSource,
- GridView



Oracle 9i / 10g DBA

Module 1: SQL

- Introduction to Oracle.
- Writing Basic SQL Statement.
- Using Where Clause & Oracle by Clause.
- Functions – Single Row & Group.
- Joins.
- Using Set Operators.
- Sub- Queries.
- DML (Insert, Update, Delete).
- DDL (Create, Alter, Drop).
- Including Constraints.
- Creating views, index & sequence.

Module 2: Fundamental I (Architecture of Oracle DB)

- Oracle Architectural Components.
- Getting Started With Oracle Server.
- Managing an Oracle Instance, Creating a Database.
- Data Dictionary Contents and Usage.
- Maintaining the Control File, Redo Log Files.
- Managing Tablespaces and Data Files.
- Storage Structures and Relationships.
- Managing Undo Data, Tables, Indexes.
- Maintaining Data Integrity, Managing Password.
- Managing Security, Resources, users, Privileges & Roles.
- Loading Data into a Database using SQL Loader.

Module 3: Fundamental II (Backup & Recovery)

- Oracle Networking Overview.
- Basic Oracle Net Architecture.
- Configuration of the Oracle Shared Server.
- Backup and Recovery Overview.
- Instance and Media Recovery Structures.
- Configuring the Database Archiving Mode.
- Oracle Recovery Manager (RMAN).
- User Managed Backups, RMAN Backups.
- User Managed Complete & Incomplete Recovery.
- RMAN Complete Recovery, Incomplete Recovery.
- Recovery Catalog Creation and Maintenance
- Transporting Data between Databases

Module 4: Performance & Tuning

- Overview Of Oracle Performance Tuning
- Diagnostic and Tuning Tools
- Sizing the Shared Pool & the Buffer Cache
- Sizing The Other SGA Structures
- Database Configuration and I/O Issues
- Optimizing Sort Operations
- Diagnosing Contention For Latches
- Tuning Rollback Segments
- Monitoring and Detecting Lock Contention
- Tuning The Oracle Shared Server
- Application Tuning, Using Oracle Blocks Efficiently
- SQL Statement Tuning, Tuning the OS and Using Resource Manger

Module 5: Oracle 10g New Features.

- ASM Database
- RMAN Compressed backups
- Temporary TS groups
- Flashback Features
- Data Pump
- Resemble Space Mgmt.

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Programming in C & C++

Programming in C:

Introduction to C

Features, Structure of C Program, Data Types, variables, Operators, etc.

Decision Control / Looping Statement

If Statement, If....Else, Nested If....Else, Switch Statements, Goto & Break Statement, While Statement, Do....While & For Loop.

Arrays & Functions

One, two, multi Dimensional Arrays
Mathematical, String, Character functions
User-Define Functions, Recursive Functions.

Structure & Unions

Declaring & Using Structures & Unions

Pointer

Memory Concepts, Need for Pointers, Pointer to variable, Call by Value & Call by Reference, Pointer to Structure & Arrays, Dynamic Memory Management, Malloc(), Calloc(), Realloc(), Free()

File in 'C'

Introduction, Type of File, How to Open, Close & Deletes files, File Pointer.

Data Structure

Introduction to Data Structure, Linked List, Single Linked List, Double Link List, Stacks, Queues.

Programming in C++

Introduction to C++

History of C++, Structure of C++, Object Oriented Features of C++, Data types, Reference Variables & Operators in C++.

Classes & Objects

Difference Between Class and Structures, Defining a Class in C++, Access Specifiers, Data Members & Member Function, Creating Objects, Static Members & Constant Members, Friend Functions, Friend Class.

Constructors & Destructors

Need for Constructors, Constructor Overloading, Destructor, NEW & DELETE operator.

Overloading

Function Overloading & Operator Overloading

Inheritance

Benefit of Inheritance, Single, Multiple, Multilevel, Hierarchical & Hybrid Inheritance.

Polymorphism

Intro, Static Binding, Dynamic Binding, Virtual Function, Pure Virtual Function, Abstract Class.

Other Misc. Topic

Files, Pointers & Data Structures in C++.



Complete JAVA with Oracle 9i

Core Java

1. Oops Concepts.
2. Learning to write own java classed.
3. Comparison between C++ a java.
4. Java Basics
5. Arrays a Strings
6. Java Interfaces
7. Java Packages
8. GUI – AWT a strings
9. Delegation Event model
10. Multithreading
11. I/O
12. Exceptions
13. Applet Programming
14. Socket programming & networking
15. Introduction to JDBC
16. Introduction to RMI
17. Introduction to Java Beans

Advanced Java

1. Core Java Review
2. Java Database Connectivity
3. RMI
4. Servlets
5. J.S.P
6. EJB
7. Introduction to Structs

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Oracle 9i: SQL & PL/SQL