Dot Net Training Course Content

CHAPTER 1: FRAMEWORK INTRODUCTION

- ➢ The .NET Framework – an Overview
- ➢ Framework Components
- ➢ Types of Applications developed using MS.NET
- ➢ Base Class Library/Framework Class Library
- ➢ Namespaces
- ➢ Common Language Runtime (CLR)
- ➢ MS.NET Memory Management / Garbage Collection
- ➢ Common Type System (CTS)
- ➢ Common Language Specification (CLS)
- ➢ Types of JIT Compilers

CHAPTER 2: INTRODUCTION TO C#

- ➢ Overview of C#
- ➢ Datatypes & Variables Declaration
- ➢ Implicit and Explicit Casting
- ➢ Enum and Constant
- ➢ Control Structures
- ➢ Arrays
- ➢ Methods
- ➢ Out and Ref Parameters

CHAPTER 3: OOPS- OBJECT ORIENTED PROGRAMMING

- ➢ Classes
- ➢ Objects
- ➢ Encapsulation
- ➢ Inheritance
- ➢ Polymorphism
- ➢ Abstract
- ➢ Interfaces
- ➢ Delegates

CHAPTER 4: EXCEPTION HANDLING

- ➢ Introduction to Exceptions
- ➢ Try and catch keywords
- ➢ Using "finally" block
- ➢ Throwing exceptions
- ➢ Creating User defined/Custom Exception class.

CHAPTER 5: WIN FORMS

- ➢ Intro to Win forms
- ➢ Panel & Layouts
- ➢ Event handling
- ➢ Building Login Form
- ➢ Toolbox
- ➢ Custom toolbox controls
- ➢ User defined controls

CHAPTER 6: INTRODUCTION TO MSSQL SERVER

- ➢ Introduction to databases
- ➢ Relational database Management concepts
- ➢ Structured Query Language
- ➢ Stored Procedures
- ➢ Functions
- ➢ Triggers

CHAPTER 7: ADO.NET

- ➢ Basics of Ado.net
- ➢ Connected and Disconnected modes
- ➢ Programming with Ado.net
- ➢ CSS and JavaScript
- ➢ HTML

CHAPTER 8: ASP.NET

- ➢ Intro to Web forms
- ➢ Web Controls
- ➢ Server Controls
- ➢ Client Controls
- ➢ Navigation Controls

CHAPTER 9: MASTER PAGES

- ➢ Introduction to MasterPage
- ➢ ContentPlaceHolder and Content tags

- ➤ Accessing controls of MasterPage in ContentPage
- ➤ URL's in MasterPages
- ➤ UniqueID and ClientID

CHAPTER 10: WORKING WITH USER CONTROL

- ➤ Overview of User Controls
- ➤ Creating a User Control
- ➤ Adding Properties to User Control
- ➤ Adding Events to User Control
- ➤ Using User Control in Web Form
- ➤ Rendering Clients Scripts Using Page.ClientScript methods

CHAPTER 11: VALIDATION CONTROLS

- ➤ Base Validator
- ➤ Required Field Validator
- ➤ Compare Validator
- ➤ Range Validator
- ➤ Regular Expression Validator
- ➤ Custom Validator
- ➤ Causes Validation Property
- ➤ Grouping – Validation Group Property
- ➤ Page.Validators and Page.IsValid

CHAPTER 12: ASP.NET STATE MANAGEMENT

- ➤ Static Members
- ➤ View State
- ➤ Hidden Field in Form
- ➤ Query String
- ➤ HttpContext
- ➤ Cookies-HttpCookie
- ➤ Sessions-HttpSessionState
- ➤ Application-HttpApplicationState
- ➤ Summary of All Features

CHAPTER 13: AUTHENTICATION & AUTHORIZATION

- ➤ What is Authentication and Authorization
- ➤ Types of Authentication
- ➤ Forms Authentication
- ➤ Role based Authentication
- ➤ Windows and Basic Authentication

- What is ASP.NET Impersonation
- Using location section in web.config

Contact Info:

+91 9884412301 | +91 9884312236

Know more about **Dot Net**

info@credosystemz.com

New # 30, Old # 16A, Third Main Road, Rajalakshmi Nagar, Velachery, Chennai (Opp. to MuruganKalyanaMandapam)

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