

.Net

Course Content



ASP.NET

INTRO TO WEB TECHNOLOGIES

HTML

- ü Client side scripting langs
- ü IIS Architecture

ASP.NET INTRODUCTION

- ü What is ASP.NET
- ü Image Technique and code behind technique

SERVER SIDE CONTROLS

- ü Type of server controls
- ü Examples on Web server controls
- ü Validation Controls
- ü ASP.NET Page Execution Architecture

THEME AND SKIN STATE MANAGEMENT

- ü Cookies
- ü Session State
- ü Session Tracking Arch
- ü Application object
- ü Session and App events
- ü Global. AJAX
- ü Viewstate

ADO.NET

- ü Intro to ADO.NET Providers
- ü Data Reader
- ü Dataset
- ü Datalist
- ü Repeater
- ü Datasource Controls
- ü Grid view
- ü Details view
- ü List view

LINQ CACHING

- ü Importance of Caching-
- ü ASP 4.5 Support for Caching
- ü Type of Caching in ASP.NET

- ü Output Caching
- ü Web user control(VS) custom control
- ü Fragment caching
- ü Data caching vs Application object

ASP.NET CONFIGURATION

- ü Machine config vs Web config
- ü App Settings
- ü Compilation setting
- ü Custom error setting
- ü Session State Setting
- ü Enhancement in ASP.NET
- ü Inprocess VS out process session state
- ü State server and SQL Server
- ü Cookie less session

ASP.NET TRACING

- ü Page Level
- ü Application Level

- ü Authentication & Authorization
- ü Windows Based Authentication
- ü Form Based Authentication
- ü Passport Authentication
- ü Membership

XML WEB SERVICES

- ü Intro to Web Services
- ü Role of WSDL .NET support for XML Web Service
- ü Client Apps for Web Service
- ü Caching Web Service
- ü SOAP
- ü UDDI Registry

WCF MASTER PAGES SITE NAVIGATION WEB PARTS

- ü Web part manager
- ü Zone Types

C#.NET / VB.NET

.NET ENTERPRISE ARCHITECTURE 4.5

- ü Introduction to the .NET platform
- ü Common Language Run Time (CLR)
- ü The Common Type Specification (CTS)
- ü The Common Language Specifications (CLS)
- ü Microsoft Intermediate Language (MSIL)

C#.NET Language Basics

- ü Data Types -Type Conversion
- ü Boxing & Unboxing
- ü Conditional Statements
- ü Looping
- ü Methods in C#
- ü Properties

- ü Arrays
- ü Indexers
- ü Structures, Enumerations
- ü Strings
- ü Collections

- ü OOps Concepts
- ü Encapsulation
- ü Inheritance
- ü Polymorphism
- ü Class and Object
- ü Constructors
- ü Dynamic types
- ü Optional parameters
- ü Names & optional arguments
- ü Covariant generic type parameters
- ü Destructors
- ü Method overloading
- ü Method overriding
- ü Early binding, Late Binding
- ü Abstract Classes
- ü Abstract Methods
- ü Interfaces
- ü Multiple Inheritance
- ü Generic classes
- ü Static classes
- ü Static constructors
- ü Object initializer
- ü Collection Initializer
- ü Extension Methods
- ü Partial Classes & Methods

Memory Management

- ü Garbage Collector
- ü Stack and Heap
- ü System. GC Class
- ü System. Object Class
- ü Architecture of Gc

Exception Handling

- ü System Defined Exceptions
- ü Custom Exceptions
- ü Try, Catch, Finally
- ü Throwing exceptions

Operator Overloading GUI Application Development

- ü Windows forms and Controls
- ü Creating Menus
- ü Toolbars, Image List
- ü Tree view, List view
- ü Notify Icon

- ü Error Provider

Data Base Programming (ADO.NET)

- ü ADO .NET Introduction
- ü Data Providers in .Net
- ü Introduction to Managed and Unmanaged Providers
- ü Data Readers- Dataset and Data Adapters
- ü Datagrid View with DML operations sorting and paging etc.
- ü Creating Relations and Transactions
- ü Linq programming
- ü Stored procedures

ASSEMBLIES

- ü Private Assemblies
- ü Shared Assemblies
- ü Global Assembly Cache (GAG)

Delegates

- ü Function Pointers
- ü Multi cast delegates

User Controls and Event Handling

- ü User Defined Control
- ü Inherited Control
- ü Event handling

Pointers

- ü Value types, Reference types
- ü Unsafe Structures and Pointers

Distributed Technologies & .NET Remoting

- ü Distributed architecture
- ü DCOM, RMI, CORBA
- ü Channels (TCP HTTP) Marshal by Value
- ü Marshal by Reference
- ü Server Activated
- ü Client Activated
- ü Remoting Architecture

File Handling

- ü System .IO namespace
- ü File stream
- ü Stream Reader
- ü Stream writer
- ü FileInfo
- ü Directory info

Windows Services

- ü Service base class
- ü Service Process installer
- ü Service Installer
- ü Creating a Windows Service
- ü Installutil .exe

Multi threading

- ü Threading
- ü Thread synchronization

- ü Critical sections
- ü Thread life cycle

Security in .NET

- ü Cryptography
- ü Role based security VB.NET

INTRADUCTION TO VB.Net

- ü Features of VB.NET
- ü Writing Programs in VB.Net
- ü Compiling and executing form Command Prompt
- ü Intro to Assemblies and Namespace
- ü Base class Libraries
- ü Data types
- ü Boxing and unBoxing
- ü Array
- ü Sub Programs

VB.NET and C# Comparison

- ü Program structure
- ü Comments
- ü Data Types
- ü Constants
- ü Enumerations
- ü Operators
- ü Choices
- ü Loops
- ü Arrays
- ü Functions
- ü Strings
- ü Regular Expressions
- ü Exceptions Handling
- ü Classes/Interfaces
- ü Constructers/Destructors
- ü Using Objects
- ü Structs
- ü Properties

CRYSTAL REPORTS

LOCALIZATION AND GLOBALIZATION

- ü Resource file creation
- ü Satelite Assembly Creation
- ü Creating Globalization App and Localization App

WPF Programming

- ü Shapes
- ü Transformation
- ü Animation

MVC COURSE CONTENTS

- Theory of MVC
- Controller In MVC
- View In MVC
- Routing
- MVC Page Life cycle
- Razor View Engine
- Model in MVC
- Html Helper Classes
- Master Page and Named Section Implementation
- Validation in MVC
- Scaffolding in MVC
- LINQ and Entity Framework (EF)
- AJAX in MVC
- JQuery in MVC
- Security in MVC
- Filters in MVC
- Caching in MVC
- Unit Testing Of MVC Project
- Web API & Rest Based Services
- Area in MVC
- Bundling & Minification
- IOC and DI in MVC
- Error Handling
- Enterprise architecture
- API Development Patterns
- Object Mapper

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