

# DOTNET Content

## C# .NET

### .NET Framework

1. What is .NET?
2. Languages
3. CLR, Assemblies,
4. .NET Architecture
5. Namespaces,
6. Writing dll's and Exe's
7. CLS, CTS

### C# Introduction

1. Syntaxes
2. Access Specifies, Data Types,
3. Conversions
4. Loops, control structures
5. Methods and Parameters
6. Arrays
7. Param Arrays
8. Using Aliases
9. Writing Multiple Main Methods

### Object Oriented Programming

1. Introduction
2. Static (Vs) Instance Members
3. Constructors
4. This Keyword
5. Inheritance
6. Base Keyword
7. Overriding, New methods
8. Sealed Classes
9. Operator Overloading
10. Interfaces, Abstract Classes
11. Destructors,GC
12. Properties,Indexers
13. Structs and Enums
14. Delegates
15. Events and Exception Handling
16. Partial Classes, Partial Methods
17. Is, as Keywords, String formatting, Var KeyWord

### GUI Programming With C# .NET

1. Designing GUI Applications
2. System. Windows. Forms namespace
3. Form Class
4. Control Programming
5. Visual Inheritance

### Working With VS .NET 2008 IDE

1. What is IDE?
2. IDE Windows
3. ToolBox, Solution Explorer
4. Server Explorer .....
5. .NET Solution Structure
6. Creating Console projects through IDE
7. Creating Windows projects through IDE

### Working With Collections

1. System. Collection Hierarchy
2. Array List
3. Hash table
4. Sorted List
5. Stack
6. Queue

### Generics

1. Generic Collections
2. Generic Classes
3. Working With I/O
4. Systemic Namespace
5. File Directory classes
6. Working with Streams
7. Working with Readers and Writers

### Serialization

1. What is Serialization?
2. Why Serialization?
3. Types of Serializations
4. Deep (VS) Shallow Serialization
5. Binary Serialization
6. Soap Serialization
7. Xml Serialization

### ADO .NET

1. What is OLE DB?
2. Working with Connection, Command Object and Data readers
3. Working with Execute Methods of Command Object
4. Command Behaviors
5. .NET Providers for SQL Server and Oracle
6. Transaction Programming
7. Working With Adapters and DataSets
8. DataSet Updation
9. DataSet Filtering
10. Data Views
11. DataRelations
12. PL/Sql Execution
  1. Calling SqlServer Procedures
  2. Calling Oracle Procedures
13. Other ADO.Net Adv Issues

### Remoting

1. What is Remoting?
2. Introduction to Distributed Computing
3. Remoting (VS) WebServices
4. Channels
5. Formatters
6. MBV's(VS) MBR'S
7. Remoting Types
  1. Server activated types and Client activated types



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8. Remoting API
9. Remoting: First Example
10. Remoting using Configuration Files
11. Designing 3-tier and N-tier Applications
12. Using Remoting and ADO.NET
13. Remoting & Serialization

## Asynchronous Programming

1. What is Asynchronous Programming
2. Asynchronous API?
3. AsyncCallback delegate
4. System.Runtime.Remoting & Async Result
5. Asynchronous Remoting

## Windows Services

1. What is Windows Service?
2. Service Control Manager System.ServerProcess namespace
3. Service Base Class
4. Creating and Installing Windows Services
5. Remoting & windows Services
6. Install Util tool

## Reflection

1. What is Reflection?
2. Why Reflection?
3. Type Class
4. System.Reflection
5. Assembly Class
6. MethodInfo,ParameterInfo and Classes
7. Remoting & Reflection

## MS.NET 3.5 Features

### ASP .NET

#### Basics

1. What is WWW?
2. Web Programming
3. HTML & JavaScript
4. WebServers, IIS
5. Active Server Pages

#### ASP.NET Introduction

1. ASP.NET Architecture
2. Asp (v) ASP.NET
3. Server control
4. Types Of Server Controls
5. Control Hierarchy
6. View States
7. Creating Controls Dynamically
8. Page class
9. Page Life Cycle
10. Page Members
11. Code behind Pages
12. Designing User Controls

## Working With ASP .NET From VS .NET IDE 2008 Control Programming

1. Web Server Control
2. Basics Web Server Controls
3. List Controls
4. Validation Controls
5. Data Controls
  1. Grid View (Paging, Sorting, Updates, etc.)
  2. Data List
6. Adv. Controls
7. New ASP .NET 3.5 Controls

## Working With Xml & Xml Web Services

1. What is Xml
2. Writing Xml Documents
3. Wellformed Xml Documents
4. Documents Type Definitions(DTP)
5. Validated Xml Documents
6. Papers
  - 1.SAX Model
  - 2.DOM Model
7. Xml Readers
8. XmlNode, XmlDocument Classes
9. Working with Xpath
10. Xml Namespaces
11. Validating Xml Documents in
12. .NET(2.0 model (vs) 3.5 model)
13. XSL and Xslt
14. Xml Controls
15. Xml Web Services-an Introduction
16. Role of WSDL
17. SOAP
18. UDDI
19. Desining Xml Web services in Asp.Net
20. Consuming Xml Web services
21. Sucuring Xml Web Services
22. Adv . Issues in XmlWebServices

## Advanced Issues In ASP .NET

1. State Management
  1. View State
  2. Cookie State
  3. Session State
  4. Server Sessions
  5. Client Sessions
  6. Applications State
2. Tracing
3. Errorhandling
4. Appsetting



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5. Connection string settings
6. Caching
  1. Page Caching
  2. Page Fragmentation Caching
  3. Data Caching
7. Asp.Net Security
  1. Authentication
8. Forms
9. Windows
10. PassPort
  1. Encrypting Passwords
  2. Authorization
  3. Principal and Identity Objects
11. Global.Asax
12. Application Events

## Advanced Issues In ASP.NET II

1. Site Navigation
2. Master Pages
3. Themes And Skins
4. Asynchronous Javascript and Xml(Ajax)
5. Ajax Programming in Asp.Net 3.5
6. Postbacks (vs) Callback in Asp.Net 3.5
7. Introduction to WebParts
8. Custom Controls (vs) Custom Controls

## .NET Mobile Deployment

1. Crystal Reports In ASP.NET 3.5

## VB .NET

### .NET Frame Work

1. What is .NET?
2. Languages
3. CLR, Assemblies,
4. .NET Architecture
5. Namespaces,
6. Writing dll's and Exe's
7. CLS,CTS

### VB.NET Introduction

1. Syntaxes
2. Access Specifiers, Data Types, Conversions
3. Loops, control structures
4. Methods and Parameters
5. Arrays
6. Param Arrays

### Object Oriented Programming

1. Introduction
2. Shared (Vs) Instance Members
3. Constructors
4. me Key Word
5. Inheritance
6. myBase Key Word

7. Overriding, Shadowing
8. Not over-ridable Methods
9. Not-inheritable Classes
10. Interfaces, Abstract Classes
11. Destructors, GC
12. Properties
13. Structs and Enums
14. Delegates
15. Events
16. Exception Handling
17. Partial Classes
18. String formatting

### Working With VS.NET 2008 IDE

1. What is IDE?
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  2. Server Explorer .....
  3. .NET Solution Structure

### Working With Collections

1. System. Collections Hierarchy
2. ArrayList, Hashtable

### Generics 3.5 With VB.NET

### Working With IO Serialization

1. What is Serialization?
2. Why Serialization?
3. Binary Serialization

### ADO.NET

1. What is OleDb?
2. Working with Connection, Command Object and Datareaders
3. Working with Execute Methods of Command Object
4. .NET Providers for SqlServer and Oracle
5. Working with Adapters and DataSets
6. DataSet Updation
7. Data Views

### Remoting

1. What is Remoting?
2. Remoting Types
  1. Server activated types, Client activated types
3. Remoting API
4. Designing 3-tier and N-tier Applications
5. Using Remoting and ADO.NET

### Assemblies

1. Types Of Assemblies
2. SFA
3. MFA
4. Private Assemblies
5. Shared Assemblies
6. Global Assembly Cache
7. GacUtil



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8. Sn

1. Globalization & Satellite assemblies

## App Domains & Multithreading

1. What is an AppDomains?
2. Managed Process (Vs) UnmanagedProcesses
3. Working with AppDomains
4. Loading Dll and exe Services in appdomains
5. What is Threading ?
6. System. Threading Namespace
7. Thread Class
8. Synchronization
9. Monitor Class
10. Thread Pool
11. Threads and AppDomains
12. Remoting and AppDomains

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YOU DO **NOT** { **TODAY** }  
TOMORROW”

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