

## VB.Net Online Course

### Unit1: Overview of .NET

- Drawbacks of the Existing System
- Why .NET came into picture
- Difference between Java and .NET
- .NET Framework Architecture
- Versions of .NET Framework

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### Unit2: Visual Basic .NET

- Disadvantages of Visual Basic
- Programming in VB .NET
- Operators
- Conditional Statements
- Arrays

### Unit3: Working with XML Data

- Understanding XML and XML Schemas
- Using XML with DataSets
- Using XmlReader and XmlWriter
- Manipulating XML Data Using XmlDocument
- Querying XML Data Using XPath
- Working with XPathDocument

### Unit4: Working with Threads

- Overview of Threading
- Creating Threads
- Passing Data to Threads
- Returning Data from Threads
- Managing Threads
- Problems with Threads
- Synchronizing Threads
- Debugging Threads
- Using Async and Await

### Unit5: ADO .NET

- Client Server Architecture
- Understanding Drivers and Providers
- ADO .NET Architecture
- Using OLEDB Providers
- Data Readers
- Using Oracle and SQL Server Managed Providers
- Disconnected Architecture with Data sets
- Data controls
- Data Table and Data View difference and usage

- Invoking Stored Procedures

## Assemblies

- Why Assemblies
- Disadvantages of Com
- Architecture of Assemblies
- Creating Private and Shared Assemblies
- Deploying Shared Assemblies in GAC

## Unit6: Custom Windows Controls (User Controls)

- Creating and Using them in other applications
- Defining properties to controls using Property Procedures
- Defining Events to controls and invoke them

## Unit7: Multithreading

- Difference between Multitasking and Multithreading
- Advantages of Multithreading
- Creating Multiple threads in application
- Thread Synchronization

## Unit8: Collections and Generics

- Understanding .NET Collections
- Ordered vs. Unordered Collections
- Managing Data with .NET Collections
- Defining Generic Methods
- Building and Using Generic Classes
- Defining Extension Methods

## Unit9: Managing Data with ADO.NET

- ADO.NET Object Model
- Connected vs. Disconnected Access
- Working with Data in Databases
- Calling Stored Procedures
- Working with Transactions
- Managing Connection Pooling
- Using the ADO.NET Provider Factory
- Working with Untyped DataSets
- Working with Typed DataSets
- Managing DataViews

## Unit10: .NET Remoting

- Understanding Distributed Architecture
- Drawbacks of DCOM
- Remoting Advantages

- Remoting Vs web services
- Creating & Using Remote Applications

#### Unit11: Crystal Reports

- Designing and Invoking Crystal Reports
- Datasets and Crystals Reports