Visual C# .NET 2003: Developing Apps

Meet the expert: Andy Baron is a nationally recognized industry expert specializing in Visual Basic, Visual C#, ASP.NET, ADO.NET, SQL Server, and SQL Server Business Intelligence. He is an experienced consultant, author, and editor for several industry publications and speaker at industry conferences. Andy has also been repeatedly selected as a Microsoft MVP for his contributions to Microsoft's online support.

Ken Getz is a featured instructor for several of our Visual Studio courses. He is a Visual Basic and Visual C# expert and has been recognized multiple times as a Microsoft MVP. Ken is a seasoned instructor, successful consultant, and the author or co-author of several best-selling books. He is a frequent speaker at technical conferences like Tech-Ed, VSLive, and DevConnections and he has written for several of the industry's most-respected publications including Visual Studio Magazine, CoDe Magazine, and MSDN Magazine.

Mary Chipman is a programmer-writer for the Data Access Technologies team at Microsoft. Previously, she was a senior consultant and was repeatedly recognized as a Microsoft MVP. Mary is the co-author of the "Microsoft Access Developer's Guide to SQL Server" (Sams) and has written additional books and articles for technical journals. She has been a frequent speaker at industry conferences and is an experienced trainer and courseware author.

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Course description: In this course, you will investigate some of the important classes and tools provided by the .NET Framework. This course focuses on important development techniques, such as building Windows Forms Controls, Code Access and Role-Based Security, Cryptography, serialization, GDI+, creating Windows services, printing, working with XML documents, and creating custom controls. You will explore ADO.NET more in-depth with topics like advanced searching, sorting, and filtering, applying constraints, creating DataRelations, using CommandBuilders, Data Binding Techniques, and manipulating XML.

Course outline:

The Tab Control
- Introduction
- Run the Sample Application
- Tab Control
- Context Menu
- Tab Alignment
- BreakIfChecked
- Multiline Property
- ToolTipText Property
- TabPages Property
- Summary

Additional Controls
- Introduction
- TrackBar
- LinkLabel
- ListBox
- RadioCheck Procedure
- TrackBar Properties
- Scroll Event
- NumericUpDown
- DomainUpDown
- Label
- CheckBox
- Three-Value Logic

- CheckBox Properties
- RadioButton
- CheckChanged Event
- Summary

Advanced Controls
- Introduction
- Anchoring
- Dialog Controls
- Filter Property
- CheckedListBox Control
- CheckedListBox.ItemCheck
- Docking
- AutoScroll
- Splitter Control
- OpenFileDialog
- ColorDialog
- FontDialog
- Summary

Security in the CLR
- Introduction
- Code Has Permissions
- Managed/Unmanaged Code
- CAS Concepts
- Security Policy in the CLR
- .NET Framework Config

- Stack Walk
- Code Groups
- Config Folders
- Summary

Working with Assemblies
- Introduction
- Parts of an Assembly
- Creating Evidence
- Run with Full Trust
- Creating Evidence
- Private Assemblies
- Strong-Named Assemblies
- Viewing Assembly Contents
- Digital Signing
- Digital Signing and CLR
- Generating a Key Pair
- AssemblyInfo.cs
- Running with Limited Trust
- Summary

Getting Started with XML
- Introduction
- XML Document Model
- Retrieve Just Text Nodes
- Tree-Based XML
- Non-Cached XML

- What Is XML DOM?
- Investigating the Sample
- Loading XML Data
- Work with Child Nodes
- Iterate Through All Nodes
- Retrieve Element Nodes
- Summary

Working with XML
- Introduction
- Nodes Matching Criterion
- Modify Attribute Values
- SelectNodes with XPath
- More About XPath
- Reference to Specific Node
- Retrieve a Single Attribute
- Work with Attributes
- If XML Isn"t Well Formed
- XML Loading Errors
- Get a Reference to a Node
- Navigate to Related Nodes
- Retrieve Attributes of a Node
- Creating XML
- Add or Delete Nodes
- Remove All Nodes/Attributes

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