ASP.NET Using Visual Basic .NET 2003

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'll learn how to use Visual Basic .NET to build ASP.NET Web pages and XML Web services. You'll gain an understanding of the new architecture behind ASP.NET and how to use the new server controls. You also learn how to use ADO.NET to create data-driven ASP.NET Web forms. You'll learn to inter-operate with non-.NET code, to manage session state, to re-use code by creating your own controls, to improve performance with output caching, to debug your application and trace its activity, to use advanced Web services features, to configure and deploy ASP.NET applications, to authenticate users and limit their access to resources, to handle multi-user data access conflicts, and to support mobile devices.

Course outline:

A Review of Classic ASP
- Overview
- Configuring Examples
- Intro Example Solution
- ASP.NET Project Files
- Code Behind the ASP Page
- The ASP.NET Object Model
- Continue with the ASP Code
- Summary

ASP vs ASP.NET
- Overview
- ASP Shortcomings
- ASP.NET to the Rescue
- Summary

Create ASP.NET Apps
- Overview
- A New Web Project
- Grid Layout Mode
- HTML View
- Adding Code
- Target Schema
- Set a Start Page
- Summary

Render with Server Controls
- Overview
- HTML Controls
- Page_Load Event Handler
- Run the Products-HTML page
- Web Forms Controls
- HTML View/Properties
- AutoPostBack property
- Summary

Creating Web Services
- Overview
- Overview of Web Services
- Example of a Web Service
- Test the Web Service
- WSDL of the Web Service
- SOAP that Gets Returned
- Summary

Web Form Controls
- Overview
- WebControl Class
- Browser Detection
- Setting Attributes/Properties
- View the HTML
- View the Client Source
- Summary

Simple Input Controls
- Overview
- Text Box Controls
- Checkbox Controls
- Radio Button Controls
- View Client Code
- Summary

Button Controls
- Overview
- Submit Button Behavior
- HyperLink Control
- Displaying Images
- HandleCommand Event
- HyperLink, Image Button
- Page Load Event
- Summary

List Controls
- Overview
- ListControls Base Class
- Adding List Items
- View Add Button Code
- Setting AutoPostBack
- SelectedIndexChanged
- Multiple Selections
- Clear Selected Items
- Summary

Simple Validation Controls
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- Validation Controls
- The Sample Project
- How Val. Controls Work
- Simple Validators
- Required Validator
- Validator Display
- Range Validator
- Compare Validator
- Summary

Complex Validation Controls
- Overview
- Regular Expressions
- Custom Validator
- Client-Side Validation
- Server-Side Validation
- Client-Side Val. Code
- Server-Side Val. Code
- Validation Summary
- Summary

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- Calendar control Code
- Styles for Calendar Ctrl.

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- Code for TodayDay Style
- Handling Calendar Events
- SelectionChanged Event
- DayRender Event
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- Code for AdRotator
- Examining Images.xml
- Properties of AdRotator
- Load AdResponse Target
- Target Frame Property
- AdCreated Event
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- XMLControl.aspx
- Setting Properties
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- OleDb and SQLClient
- ADO.NET Architecture
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- DataTable w/o a Connection
- Connect to a Data Source
- Set Up Connection Info
- Command Object
- DataReader Object
- Using SQLDataReader
- Summary

Accessing Data
- Overview
- Working with Data
- Getting Data
- DataSet Object
- Filling a DataSet
- Example-Fill a DataSet
- DataTable Rows / Columns
- Using DataRows
- DataColumns and Schema
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Choose an ADO.NET Provider
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- Choosing a Provider
- SQL Server .NET Provider
- OLEDB .NET Provider
- ODBC Data Provider
- Coding- Multiple Providers
- Interface Inheritance
- Demo- Multiple Providers
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- Create a Repeater Control
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- Use Templates to Format
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- Edit Data with a DataList
- DataListEditing Code
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- Add an SQLConnection
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- Using Property Builder
- Behind the Scenes
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- A Simple Web Application
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- Deciding on a Strategy
- Preparing to Migrate
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- Session State Attributes
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- Testing SQL Server
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- HTMLTextWriter Class
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- Setting Up for PostBack
- Render the Contents
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- PostBack Data
- IPostBackDataHandler
- Methods of the Interface
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