

ASP.NET Using Visual Basic .NET 2003

page 1

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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

- Overview

- 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

Calendar Control

- Overview
- Intro- Calendar Control
- Calendar control Code
- Styles for Calendar Ctrl.

(Continued on page 2)

ASP.NET Using Visual Basic .NET 2003

page 2

- Code for TodayDay Style
- Handling Calendar Events
- SelectionChanged Event
- DayRender Event
- Client Code
- Summary

AdRotator Control

- Overview
- The AdRotator Control
- Code for AdRotator
- Examining Images.xml
- Properties of AdRotator
- Load AdResponse Target
- Target Frame Property
- AdCreated Event
- Summary

XML Control

- Overview
- XMLControl.aspx
- Setting Properties
- Summary

Overview of ADO.NET

- Overview
- Discovering ADO.NET
- ADO.NET Classes
- OleDb and SQLClient
- ADO.NET Architecture
- DataTable Object
- 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
- DataColumn and Schema
- Summary

Choose an ADO.NET Provider

- Overview
- Choosing a Provider
- SQL Server .NET Provider
- OLEDB .NET Provider
- ODBC Data Provider
- Coding- Multiple Providers
- Interface Inheritance

- Demo- Multiple Providers
- Summary

Creating a Repeater Control

- Overview
- Config a Repeater Control
- Create a Repeater Control
- Example- Repeater Control
- View the HTML
- Use Templates to Format
- Summary

Creating a DataList Control

- Overview
- Example- DataList.aspx
- Bind Data to a DataList
- Edit Data with a DataList
- DataListEditing Code
- Summary

Setting Up a DataGrid

- Overview
- DataGrid Setup
- Add a SqlDataAdapter
- Add an SqlConnection
- SqlDataAdapter Properties
- Add DataSet / Bind DataGrid
- Using Property Builder
- Behind the Scenes
- Display the DataGrid
- Summary

Advanced DataGrid Features

- Overview
- Example- Explore DataGrid
- Examining DataBinding
- Adding Button Columns
- Selecting Rows
- Adding a Hyperlink Column
- Setting Up Paging
- Editing Rows
- EditCommand Event
- CancelCommand Event
- UpdateCommand Event
- DeleteCommand Event
- Summary

The Role of DataSets

- Overview
- ADO.NET Object Model
- Summary

Using DataSets in ASP.NET

- Overview
- Example- ManagaingData
- Summary

Saving DataSets in ASP.NET

- Overview
- Using the Task List
- Create the DataSet
- Caching Data in DataSets
- Reloading Saved DataSets

- Summary

Constraints and DataRelations

- Overview
- Adding a Constraint
- Types of Constraints
- Add DataRelations
- Find Method
- GetParentRow
- Summary

DataSets with DataAdapters

- Overview
- Using CommandBuilders
- CommandBuilder Code
- Custom Cmds and Params
- Parameters Collection
- Auto-Increment Columns
- Summary

DataSet Transactional Model

- Overview
- Add a New Row
- BeginEdit - EndEdit
- DataRowVersion
- RowState
- GetChanges Method
- Accept/Reject Changes
- Summary

Why XML Web Services?

- Overview
- Technology and Reqs
- Bad News- Web Services
- Good News- Web Services
- Summary

Creating an XML Web Service

- Overview
- Create a Web Service
- Test the Web Service
- View the WSDL
- Example- Web Service
- Web Service Designer Code
- Examining Web Methods
- machine.config
- Disabling GET and POST
- Disabling WSDL
- Summary

Designing XML Web Services

- Overview
- Providing Services
- Marshalling Data
- Summary

HTTP Clients

- Overview
- Making HTTP Requests
- HTTP-GET/HTTP-POST
- web.config file
- Using HTTP-GET
- Using HTTP-POST

- Code for HTTP-POST
- Summary

Web Services Clients

- Overview
- Creating a Client App
- Introducing Web References
- A Simple Web Application
- Add a Web Reference
- Reference .vb file
- Demo- Web Application
- More Detailed Example
- Summary

Web Services - Legacy Clients

- Overview
- Legacy Clients - SOAP Toolkit
- Microsoft SOAP Toolkit
- Using a VB 6 Client
- MSSOAPLib 3.0
- VB6 Using a Web Service
- Summary

Using UDDI

- Overview
- What is UDDI?
- Searching a UDDI Portal
- UDDI Test Server
- Consuming a Web Service
- Summary

Migrating ASP to ASP.NET

- Overview
- The Path to ASP.NET
- Benefits of Migrating
- Deciding on a Strategy
- Preparing to Migrate
- Upgrading VB 6.0 Projects
- Migrating an ASP Page
- A Migrated ASP Page
- Summary

Using COM Objects

- Overview
- COM Components
- Managed - Unmanaged Code
- The Runtime Callable Wrapper
- PIAs
- Working with a PIA
- Sample Interop App
- ADO Recordsets
- Call an ActiveX DLL
- Work with ADO XML
- Summary

Platform Invocation Services

- Overview
- P/Invoke Caveats
- Creating a Wrapper Class
- Calling the Wrapper Class
- Summary

Preserving State in Web Apps

- Overview

ASP.NET Using Visual Basic .NET 2003

page 3

- Methods of Preserving State
- Sample application
- __ViewState Control
- Understanding Viewstate
- Limits of Page-Level State
- EnablingViewstateMac
- Summary

Cookies

- Overview
- Working with Cookies
- Examples of Using Cookies
- Viewing Cookies.aspx
- Summary

ASP.NET Session State

- Overview
- Problems in Classic ASP
- SessionState
- SessionID.aspx
- Storing Session Data
- SelectProducts
- Session State Objects
- Summary

Configuring Session State

- Overview
- Editing Configuration Files
- Session State Attributes
- web.config - machine.config
- State Server Mode
- ASP.NET State Service
- Testing StateServer
- SQL Server Mode
- SQL Server Session State
- Testing SQL Server
- Cookieless Session IDs
- Summary

User and Custom Controls

- Overview
- Two Kinds of Controls
- UserControl App
- Adding a User Control
- Viewing the Page
- A More Complex Control
- Completed.aspx
- Dropdown List Code
- Creating the State Control
- Test the User Control
- Summary

Creating Server Controls

- Overview
- Web Control Libraries
- Test Your Control
- Adding Your Control
- HTML View of the Control
- Code View of the Control

- Render Method
- WriteFullBeginTag
- Summary

Custom Control Example

- Overview
- The StateList.sln project
- HTMLTextWriter Class
- Constructor
- Setting Up forPostBack
- Render the Contents
- StateList Properties
- Property Behavior
- PostBack Data
- IPostBackDataHandler
- Methods of the Interface
- How Everything Works
- A Toolbox Bitmap
- Default Properties
- Summary

Output Caching

- Overview
- Read Permissions
- Types of Caching
- Caching Static Pages
- Duration Attribute
- VaryByParam Attribute
- Query String Parameters
- HTML - DairyProducts.aspx
- Code - DairyProducts.aspx
- Page Directives
- Other Types of Cache
- HTTP Headers
- Code for VaryByCustom
- VaryByCustom String
- View HTTP Cache Policy
- Programmatic Caching
- Setting a Cache's Duration
- Viewing a Static Page
- Summary

Caching Page Fragments

- Overview
- UserControl.aspx
- A Page with User Controls
- UserControl Problems
- Name Value in VaryByParam
- Eliminate VaryByParam
- Caching Controls on a Page
- Control - Multiple Instances
- BackColor Property
- Nesting Controls
- Nested Control Sample
- User Control Traps to Avoid

- Summary

Caching Data

- Overview
- Caching Data
- Sample of Caching Data
- CuteFurryAnimals.aspx
- File and Key Dependencies
- Summary

Monitoring Performance

- Overview
- The Performance Monitor
- Application Center Test
- Simulating Performance
- Summary

Tracing in ASP.NET

- Overview
- Page Level Tracing
- Enable Tracing
- Example - Trace Details
- View the Code
- Writing Trace Information
- Page Output
- Loading Trace.axd
- Summary

The Windows Event Log

- Overview
- Configure an Event Log
- Viewing the Event Log
- Writing to the Event Log
- Custom Error Page
- Summary

Trace Listener / Switches

- Overview
- Trace Listeners
- Trace Switches
- Configuring Trace Switches
- Trace Listeners Setup
- TraceListener.aspx
- Summary

Debugging ASP.NET Apps

- Overview
- Configuring Debugging
- Configure SQL Debugging
- Debug Stored Procedures
- Setting Breakpoints
- Debug Windows
- Summary

Consuming Web Services

- Overview
- Synchronous / Asynchronous
- Synchronous Web Services
- Run the Web Service
- Web Service Code
- Asynchronous Web Services
- Create the Event Source
- Sample Code

- Delegates
- Properties of IAsyncResult
- Summary

Binary Information

- Overview
- Transferring Binary Info.
- Web Service Test
- CuteFurryAnimals.aspx
- The Image Web Service
- Code for GetImage
- HTML for the Page
- Retrieving a List of Images
- XML Sent to the Client
- Non-Local Images
- GetPicture.aspx Code
- Summary

Deploying ASP.NET Apps

- Overview
- Install the .NET Framework
- Install MDAC
- Install IIS
- Setup ASPNET Account
- Configuration Files
- Application-Level Settings
- Database Resources
- The SQL Server sa user
- Summary

ASP.NET Architecture

- Overview
- ASP.NET File Architecture
- Assemblies
- ASP.NET App Execution
- Running Multiple Versions
- XCOPY Deployment
- Copy Project Deployment
- A Web Setup Project
- Create a Web Setup Project
- Adding Project Output
- Custom Web Setup Project
- Launch Conditions
- Summary

ASP.NET Mobile Controls

- Overview
- A Big Problem, and a Solution
- Testing Mobile Pages
- How Mobile Pages Work
- How Mobile Pages Browse
- A Simple Mobile Web Page
- Make a Mobile Page Work
- Using an Wmlator
- How Did this Code Work?
- Summary

More on Mobile Controls

- Overview

(Continued on page 4)

ASP.NET Using Visual Basic .NET 2003

page 4

- Container Controls
- Example- Container Controls
- Transfer Controls
- Text Display Controls
- List and Selection Controls
- Code Example
- Object List Control
- Code for Object List Control
- Validation Controls
- Image Display Controls
- Misc. Controls
- Summary

ASP.NET Security Overview

- Overview
- IIS and ASP.NET Security
- ASP.NET Authentication
- Configure ASP.NET Settings
- Authorization
- Configuring IIS Settings
- Impersonation
- Summary

Windows Authentication

- Overview
- Configuring Security
- WindowsAuth.sln
- Summary

Forms Authentication

- Overview
- Form-Based Authentication
- The FormsAuth Project
- Configure Authentication
- Code- FormsAuth.sln
- Hashing Passwords
- Hashes in the web.config File
- Using XML to Store Info.
- Summary

Custom Authentication

- Overview
- Storing Secrets Safely
- CreateWebUserObjects.sql
- Results of Script
- Examine Stored Procedures
- Run the Sample Application
- Code Behind Default.aspx.vb
- CreateSale Method Code
- GetRolesString Method Code
- Run the CustomAuth Sample
- Summary

DataSets

- Overview
- ASPNET Write Permissions
- Saving XML Schema and Data
- CategoriesProducts Schema
- CategoriesProducts XML

- Sequence Tags
- XPath
- DataRelation: Nested Property
- CategoriesProductsDataNested
- Edit Products Code
- Loading XML Schema / Data
- Summary

Typed DataSets

- Overview
- CategoriesProducts.xsd
- Browser for Typed DataSets
- Creating a Typed DataSet
- DataSet Schema Annotations
- Typed DataSet Schema Annt.
- Generating a Typed DataSet
- XML Schema Graphically
- Define a Relationship
- Cascading Options
- Summary

Concurrency

- Overview
- A Concurrency Conflict
- Update Criteria
- DataHandling Sample
- Concurrency Conflicts
- Display Concurrency Errors
- InkSave_Click Event
- Stored Procedure Code
- Handling Data Updates
- RowUpdated Event
- SQLRowUpdatedEventArgs
- Check dtChanges.HasErrors
- Summary