



Acorn Software Training

ASP.NET 3.5

Workshop

**using
Visual Studio 2008**



Prerequisites

- ◆ *.NET Programming with Visual Basic and C#*, or hands-on experience with VB.NET or C#, and Visual Studio .NET 2002, 2003 or 2005
- ◆ Web concepts, including HTML and JavaScript
- ◆ Object-Oriented concepts



Course objectives

Upon successful completion of the course, you will be able to:

- ◆ design a web site using Master and Content Pages, style sheets, and other tools, to provide a good and consistent user interface
- ◆ use most of the ASP.NET Server controls included in Visual Studio.NET, to create full-featured ASP.NET pages (Web Forms)
- ◆ write extensive Visual Basic.NET or C#.NET code to process input and output, including validating input and handling exceptions
- ◆ navigate efficiently from page to page, including building a login process
- ◆ understand and use the Cache, Application and Session objects, and Global.asax
- ◆ use COM and .NET components (DLLs), Web Services, and WCF Services
- ◆ display database data, using DataSources and controls such as GridView; write code to query and update databases, using the ADO.NET Connection, Command, and DataReader classes
- ◆ use Ajax techniques to add functionality to a web site
- ◆ have a general understanding of good practices for security, and dealing with ADA (Section 508) disability guidelines
- ◆ be familiar with other issues, including creation of Class Libraries, Web Services, and WCF Services; know the purpose of LINQ (Language Integrated Query), WPF (Windows Presentation Foundation) and WF (Windows Workflow Foundation)
- ◆ deploy the application to a production server, create and use a configuration file



Hardware and software requirements

- ◆ One workstation per student and instructor, with Windows XP or later
- ◆ Visual Studio.NET 2008 Professional Edition or higher
 - the MSDN Help is optional and strongly recommended
 - Service Pack 1 is optional
 - IIS is optional



Course setup

The course comes with a large number of sample applications, databases, and supporting files, in a self-extracting zip file, usually on a CD.

If you wish, you can download this setup file from www.acornsoftware.com.



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1. ASP.NET Overview

- A. .NET Overview
- B. Installing the course files
- C. ASP.NET Overview
- D. Building a simple ASP.NET application

2. A basic ASP.NET web site

- A. Starting a web site with a master page
- B. Cascading Style Sheets in ASP.NET
- C. Using a DataSource with a GridView control
- D. The Page object

3. Temporary Storage

- A. Overview
- B. The Application object
- C. The Cache
- D. The Session object
- E. The global.asax file,
- F. Browser-side techniques

4. ASP.NET Components

- A. Pros and cons of various techniques
- B. Using DLLs, Web Services and WCF Services
- C. Master and Content pages
- D. Themes and Skins
- E. User controls
- F. Web Parts
- G. Server-side includes

5. ASP.NET Navigation

- A. Start and default pages
- B. Linking from page to page - overview of controls
- C. Controls with a NavigateUrl property
- D. Controls with a Click event
- E. Browser-side dialogs
- F. A login process

6. ASP.NET Server Controls: Input

- A. Events and AutoPostBack
- B. Text controls

- C. Choices: Radio buttons, Check boxes, and List controls
- D. Calendars

7. ASP.NET Validation & JavaScript

- A. Validators
- B. Custom Validator and JavaScript
- C. Inserting script into a page in server-side code

8. Overview of Database Programming with ADO.NET

- A. Overview of ADO.NET
- B. Reading data with a DataReader
- C. Database updating

9. Ajax in ASP.NET

- A. Overview of Ajax
- B. Server-side Ajax features
- C. Browser-side Ajax calls to inline methods
- D. Ajax calls to web services
- E. Additional considerations

10. Additional Topics

- A. Displaying reports
- B. Handling files
- C. Sending email
- D. Overview of additional .NET features:
LINQ (Language Integrated Query),
WCF (Windows Communication Foundation),
WF (Windows Workflow Foundation),
WPF (Windows Presentation Foundation)
- E. Creating Class Libraries, Web Services, and WCF Services
- F. Security guidelines
- G. Disability guidelines
- H. Service Pack 1 for Visual Studio 2008 & .NET 3.5
- I. Future developments

11. Deployment Issues

- A. Performance and tracing
- B. Site administration
- C. Deploying the application

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