

Microsoft Ajax 4 Using Visual C# 2010: Server

Table of Contents

INTRODUCTION	INTRO-1
Prerequisites	INTRO-2
Installing the Practice Files	INTRO-3
Software Requirements	INTRO-3
Sample Database	INTRO-4
Installation	INTRO-6
About the Author	INTRO-7
AJAX FUNDAMENTALS	1-1
Introducing Ajax	1-2
Web Form Processing	1-9
Ajax and Visual Studio	1-12
Comparison of Full and Partial-Page Postbacks	1-14
Essential JavaScript	1-22
JavaScript, the Language	1-22
Dynamic HTML (DHTML)	1-24
JavaScript Object Notation	1-26
JavaScript Objects	1-29
Prototypes and Enclosures	1-30
Server and Client-Side Ajax	1-34
LAB 1: AJAX FUNDAMENTALS	1-39
Lab 1 Overview	1-40
Implement Ajax Using the XMLHttpRequest Object	1-41
Use Server-Side Ajax in a Web Page	1-51
SERVER-SIDE AJAX: UPDATEPANEL AND RELATED CONTROLS	2-1
Partial-Page Rendering	2-2
Ajax Server-Side Controls	2-2
The ScriptManager Control	2-4
ScriptManager Property Collections	2-6
The UpdatePanel Control	2-17
UpdatePanel Default Behavior	2-17
Triggers	2-25
Other Server-Side Ajax Controls	2-28

LAB 2: SERVER-SIDE AJAX: UPDATEPANEL AND RELATED CONTROLS.....	2-39
Lab 2 Overview.....	2-40
Consume a Web Service in Microsoft Ajax.....	2-41
Build a Comments Form	2-49
CREATING RICH AJAX APPLICATIONS	3-1
Using Multiple UpdatePanel Controls.....	3-2
Using Two Independent UpdatePanels	3-2
Nesting UpdatePanels	3-5
Minimizing Data Transfer with UpdatePanel.....	3-7
Using Page Methods	3-9
Calling a Web Service from a Browser	3-9
Calling a Server-Side Page Method.....	3-14
Ajax History and the Browser Back Button.....	3-17
Use Ajax History	3-19
LAB 3: CREATING RICH AJAX APPLICATIONS	3-29
Lab 3 Overview.....	3-30
Use Client-Side Ajax to Call a Page Method.....	3-31
Use Ajax History in a Web Page.....	3-38
ASP.NET AJAX CONTROL TOOLKIT	4-1
Introduction to the Ajax Control Toolkit.....	4-2
Control Extenders	4-3
Server and Client Controls.....	4-4
Add the Ajax Control Toolkit to the Visual Studio Toolbox.....	4-5
Toolkit Controls and Extenders.....	4-11
Accordion Control	4-11
AlwaysVisibleControlExtender	4-13
AutoCompleteExtender Control	4-15
FilteredTextBoxExtender Control.....	4-20
ListSearchExtender Control	4-21
MaskedEditExtender and Validator Controls	4-28
PagingBulletedListExtender Control	4-31
TextBoxWatermarkExtender Control	4-33
PasswordStrength Control	4-34
ToolkitScriptManager Control	4-36
LAB 4: ASP.NET AJAX CONTROL TOOLKIT	4-49

Lab 4 Overview	4-50
Configure the Rating Control	4-51
Use the ModalPopupExtender	4-58
INDEX.....	INDEX-1

ASP.NET 4.0 Ajax and jQuery Using Visual C#

Table of Contents

INTRODUCTION	INTRO-1
Prerequisites	INTRO-2
Installing the Practice Files	INTRO-3
Software Requirements	INTRO-3
Sample Database	INTRO-6
The Chapter Files	INTRO-7
About the Author	INTRO-8
THE JQUERY LIBRARY	5-1
jQuery for the ASP.NET Developer	5-2
The Microsoft Ajax Library	5-3
The jQuery Library	5-4
Progressive Enhancement with JavaScript.....	5-8
Delivering jQuery to the Browser	5-9
Compressed and Uncompressed Versions of jQuery	5-12
Using jQuery	5-15
A jQuery Statement.....	5-19
The jQuery Function	5-20
Waiting for the Page to Load	5-21
Selectors, Wrapped Sets, and Chains	5-26
jQuery Selector Test Page.....	5-26
Using jQuery Selectors	5-29
jQuery Filters.....	5-41
Wrapped Sets and Chaining	5-47
LAB 5: THE JQUERY LIBRARY.....	5-53
Lab 5 Overview.....	5-54
Build a Web Page Using jQuery	5-55
Solve jQuery Selector Puzzles	5-63
BRING A WEB PAGE ALIVE WITH JQUERY.....	6-1
Introduction	6-2
Work with Page Elements.....	6-3
Manipulating CSS with jQuery	6-3
Hiding and Showing Page Elements.....	6-12
Changing Element Content.....	6-16

Adding and Removing Page Elements	6-20
Use Animations and Effects.....	6-26
Hovering Effects.....	6-27
Hiding and Showing Content	6-31
The animate Method	6-37
The jQuery User Interface Library	6-46
Downloading the jQuery UI Library	6-47
Exploring the jQuery UI Library	6-51
LAB 6: BRING A WEB PAGE ALIVE WITH JQUERY	6-57
Lab 6 Overview.....	6-58
Build a Web Page Using jQuery Manipulations and Animations	6-59
Build a Web Page Using the jQuery UI Library.....	6-65
USING JQUERY'S AJAX FEATURES	7-1
Introduction	7-2
The Server Side of Ajax	7-3
Ajax Made Simple with jQuery	7-4
The load Method	7-4
Content from HTML Files.....	7-5
Content from a Web Service.....	7-12
GETs, POSTs, and Data Formats	7-21
GET versus POST in the load Method.....	7-21
The get and post Methods	7-22
Taking Full Control with the ajax Method.....	7-25
Using the ajax Method	7-26
Setting Global ajax Method Options	7-30
Ajax Local and Global Events	7-32
LAB 7: USING JQUERY'S AJAX FEATURES	7-43
Lab 7 Overview.....	7-44
Refresh Content on a Page Using Ajax	7-45
Get JSON Data from a Web Method to Update a Page	7-52
JQUERY EXTENSIONS.....	8-1
jQuery Extensions in Microsoft's World	8-2
Replacing the Ajax Control Toolkit.....	8-2
Microsoft Extensions.....	8-15
jQuery Validation.....	8-34
Building Your Own Extensions	8-43

Plugin Conventions	8-43
The Sample Application	8-44
Plugin Framework	8-47
Building Version 1.0 of the Plugin	8-48
LAB 8: JQUERY EXTENSIONS	8-59
Lab 8 Overview	8-60
Globalize Data on a Web Page	8-61
Validate a Form Using jQuery Validation	8-65
Build a jQuery Plugin	8-72
INDEX.....	INDEX-1

