

# Contents

Introduction	xxiii
--------------	-------

## Part I: Grids, Editors, Navigation, and Controls

<b>Chapter 1: Programming with the ASPxGridView</b>	<b>3</b>
---	----------

---

<b>Understanding How Ajax Delivers Real Performance to the ASPxGridView</b>	<b>4</b>
---	----------

What Does Ajax Do for Web Developers?	4
---------------------------------------	---

ASPxGridView and Ajax	4
-----------------------	---

<b>Binding and Editing Data in the ASPxGridView</b>	<b>6</b>
---	----------

Creating a New Data Source from the Task Menu	6
---	---

Editing Column Information	11
----------------------------	----

<b>Filtering Data</b>	<b>12</b>
-----------------------	-----------

Using the Filter Row	12
----------------------	----

Using the Filter Row Menu	14
---------------------------	----

Filtering with the Header Filter Button	16
---	----

Defining Dynamic Predicates with the Filter Bar	16
---	----

Filtering the Grid Programmatically	21
-------------------------------------	----

Configuring Filtering Using web.config Settings	22
---	----

<b>Grouping and Sorting Data</b>	<b>23</b>
----------------------------------	-----------

<b>Creating and Using Summary Values</b>	<b>25</b>
--	-----------

Calculating Summary Values	25
----------------------------	----

Calculating Custom Summaries	27
------------------------------	----

Calculating Total Custom Summaries	29
------------------------------------	----

<b>Managing the Grid's Appearance</b>	<b>32</b>
---------------------------------------	-----------

<b>Summary</b>	<b>33</b>
----------------	-----------

<b>Chapter 2: Advanced ASPxGridView Computing</b>	<b>35</b>
---	-----------

---

<b>Storing Changes</b>	<b>35</b>
------------------------	-----------

Implementing Write Behaviors Declaratively	36
--	----

Using Stored Procedures for Declarative Writes	41
--	----

Implementing Write Behaviors Dynamically (with Code)	46
--	----

<b>Enabling Callback Compression</b>	<b>47</b>
--------------------------------------	-----------

<b>Catching Callback Errors Using an ASPxHttpHandlerModule</b>	<b>47</b>
Displaying Callback Errors	49
Redirecting Callback Errors to a Specific Web Error Page	52
<b>Binding the ASPxGridView to an ArrayList or Collection</b>	<b>55</b>
Binding an ArrayList to an ASPxGridView	56
Binding a Generic Collection to an ASPxGridView	58
<b>Using Unbound Columns</b>	<b>66</b>
<b>Implementing a Custom Sort</b>	<b>69</b>
<b>Exporting Grid Data</b>	<b>71</b>
Exporting ASPxGridView Data to PDF, RTF, CSV, and XLS	72
Adding Export Detail with the RenderBrick Event	73
Implementing Your Own Exporter	75
<b>Using Master and Detail Grids</b>	<b>78</b>
<b>Saving User Customizations with Cookies</b>	<b>85</b>
<b>Programming Client-Side Events</b>	<b>87</b>
Adding an ASPxPopupMenu to an ASPxGridView	88
Implementing the ASPxPopupMenu Behavior	89
Debugging JavaScript	94
<b>Using Custom Script Properties</b>	<b>94</b>
<b>Enabling Horizontal Scrolling</b>	<b>96</b>
<b>Displaying Images Directly from a Database in a Template Region</b>	<b>98</b>
Displaying Images from a Database Manually	98
Displaying Images from a Database in the ASPxGridView	104
<b>Summary</b>	<b>107</b>
<b>Chapter 3: Using the ASPxTreeList, ASPxDataView, and ASPxNewsControl</b>	<b>109</b>
<b>Displaying Data in Tree Views</b>	<b>109</b>
Using the ASPxTreeList in Unbound Mode	110
Creating a Windows Explorer-Style Web Page with Virtual Mode	120
Binding (over Building) to a SqlDataSource	124
Sorting Hierarchies of Data	135
Modifying ASPxTreeList Data	136
Exporting Data from an ASPxTreeList	150
<b>Introducing the ASPxDataView</b>	<b>152</b>
<b>Displaying News and Product Headlines in a Web Page</b>	<b>155</b>
Using the ASPxNewsControl to Display Information about Published Books	157
Reading ASPxNewsControl Images from a Database	161
<b>Summary</b>	<b>167</b>

---

<b>Chapter 4: Adding SiteMaps, Navigation, and Pop-Up Dialog Boxes</b>	<b>169</b>
<b>Implementing a Navigation Bar</b>	<b>169</b>
Incorporating Basic Navigation Using an XML File	170
Exploring the Boundaries of the ASPxNavBar	179
<b>Facilitating Social Networking with the ASPxCloudControl</b>	<b>203</b>
Configuring Microsoft Indexing Service	204
Defining a Catalog and Directory, and Building the Index	206
Linking the Indexing Service to the FileSystem Via SQL Server	207
Querying the Indexing Service	207
Configuring the ASPxCloudControl	208
<b>Creating a Sitemap with XML and the ASPxSiteMapControl</b>	<b>212</b>
Binding an ASPxSiteMapControl to an Existing .sitemap File	212
Building a Sitemap Based on the Current Structure of Your Site	214
Building a Site Map Dynamically	216
<b>Using Modal Dialogs in ASP.NET</b>	<b>219</b>
Blending showModalDialog with JavaScript and the ASPxCallbackPanel	220
Implementing a Modal Login Window with the ASPxPopupControl	227
<b>Summary</b>	<b>233</b>
<b>Chapter 5: Implementing a Menu and Tabbed Controls</b>	<b>235</b>
<b>Building Menus with the ASPxMenu</b>	<b>235</b>
Defining Menu Items	236
Binding to an ASPxSiteMapDataSource and XML File	237
Exploring ASPxMenu Features	240
Defining Menu Items with Code	243
Defining Menu Templates	243
Implementing a Tabbed Menu	257
Emulating a Toolbar with the ASPxMenu	268
<b>Incorporating Pop-Up Menus into Your Web Application</b>	<b>269</b>
Designing the ASPxPopupMenu	270
Implementing the JavaScript Class	272
Coding the Client-Side Behaviors	273
<b>Creating Tabbed Views</b>	<b>277</b>
Customizing the Appearance of Tabs	277
Using the ASPxPageControl	280
<b>Summary</b>	<b>284</b>

## **Chapter 6: Managing Scheduled Items and Using Gauges** **285**

---

<b>Scheduling Calendar Events</b>	<b>285</b>
Data Binding an AccessDataSource to the ASPxScheduler	288
Using the Scheduler in List Bound Mode	295
Exploring View Types	308
Changing the Active View with Client-Side Script	314
Grouping Schedule Events with the ASPxResourceNavigator	315
Defining an Appointment Template	316
Exporting and Importing a Calendar	322
<b>Using the ASPxGaugeControl</b>	<b>325</b>
Exploring the ASPxGaugeControl Properties	326
Dynamically Applying Gauge Styles	333
Data Binding Gauges	341
<b>Summary</b>	<b>357</b>

## **Part II: Data Sources, JavaScript, CSS, and Themes**

### **Chapter 7: Using the Data That Makes Sense for Your Solution** **361**

---

<b>Using an XpoDataSource</b>	<b>362</b>
Using the DevExpress' Object Relational Mapping Capability	363
Using the ASPxTitleIndex with an XpoDataSource	369
Using a View with (XPO) Persistent Objects	373
<b>Enabling ServerMode for High Performance Applications</b>	<b>378</b>
<b>Generating a Database Dynamically with XPO</b>	<b>381</b>
Requesting a Connection String from the Database Server	381
Defining the Tweet Class	381
Creating a Database Dynamically with XPO	383
Querying Twitter	384
Extracting the Tweet Data with LINQ for XML	384
Using UnitOfWork to Update the Database	386
<b>Summary</b>	<b>388</b>

### **Chapter 8: Implementing Data Solutions with the ASPxPivotGrid** **391**

---

<b>Transforming Relational Data into an ASPxPivotGrid</b>	<b>392</b>
Using Relational Data in an ASPxPivotGrid	392
Using Multiple Data Fields	399
Choosing the Field Summary Type	400
Implementing a Custom Summary	400
Calculating Fields Manually	403
Using the Built-in Summary Variation Feature	405

---

<b>Exporting Data to Create Crosstab Reports</b>	<b>406</b>
<b>Binding to an OLAP Cube</b>	<b>409</b>
<b>Using an ASPxPivotGrid as a WebChartControl's Data Source</b>	<b>411</b>
<b>Grouping Axis Values</b>	<b>415</b>
Grouping Axis Values	416
Grouping Values Manually	416
<b>Arranging Values Hierarchically</b>	<b>418</b>
Creating a Hierarchy	418
Keeping Fields Together	419
<b>Calculating Totals</b>	<b>423</b>
Computing Summaries Automatically	423
Computing Running Totals	423
Using Manually Specified Totals	425
<b>End-User Data Filtering</b>	<b>428</b>
<b>Sorting Data and Displaying Top or Bottom Values</b>	<b>430</b>
Sorting Manually	431
Displaying Top or Bottom Numbers	435
<b>Using the Drill-Down Window</b>	<b>436</b>
<b>Summary</b>	<b>439</b>
<b>Chapter 9: Using the ASPxHtmlEditor</b>	<b>441</b>
<hr/>	
<b>Managing ASPxHtmlEditor Features</b>	<b>441</b>
Enabling or Disabling Scripts	442
Allowing IFrames	443
Allowing Form Elements	444
Allowing Supported Editor Views	444
Updating Document Elements Automatically	444
<b>Defining a Custom ASPxHtmlEditor Toolbar</b>	<b>445</b>
Adding a Custom Toolbar Item with Code	447
Defining CustomCommand Toolbar Behavior and Ajax	448
<b>Applying Custom Styles (CSS)</b>	<b>451</b>
<b>Enabling Spell Checking</b>	<b>458</b>
<b>Summary</b>	<b>464</b>
<b>Chapter 10: Using Themes, CSS, and JavaScript for Customizations and Enhancements</b>	<b>465</b>
<hr/>	
<b>Defining and Managing Style Information</b>	<b>466</b>
Specifying Style Information and Understanding Precedence	466
Creating Cascading Style Sheets	469
Managing Style Information with Visual Studio Features	482

# Contents

---

<b>Using Skins and Themes</b>	<b>484</b>
Applying Existing Themes	484
Applying a Theme to Your Web Application	489
Changing a Theme Dynamically	490
Defining Custom Skins and Themes	492
<b>Making the Most of JavaScript</b>	<b>497</b>
Common Client-Side Functionality	497
Client-Side Discussion	498
Client-Side Events	499
JavaScript Debugging	505
<b>Summary</b>	<b>505</b>
 <b>Part III: Ajax, Charting, Reporting, and Cloud Computing</b>	
<hr/>	
<b>Chapter 11: Asynchronous Computing for ASP.NET</b>	<b>509</b>
<hr/>	
<b>Controlling Asynchronous Behavior with a Timer</b>	<b>510</b>
Controlling Asynchronous Behavior with Callbacks	511
Using the ASPxCallback Control	511
Using the ASPxCallbackPanel Control	514
<b>Displaying Multimedia Content</b>	<b>519</b>
Creating a YouTube Player	520
Controlling the YouTube Player	521
Playing FLV Files	529
<b>Summary</b>	<b>529</b>
 <b>Chapter 12: Adding Charts and Graphs to Your Applications</b>	
<hr/>	
<b>The Vernacular</b>	<b>531</b>
<b>Creating a Chart</b>	<b>533</b>
<b>Medium Trust</b>	<b>541</b>
<b>Real-time Updates</b>	<b>541</b>
<b>Runtime Visual Effects</b>	<b>545</b>
<b>Summary</b>	<b>550</b>
 <b>Chapter 13: XtraReports For the Web</b>	
<hr/>	
<b>Creating a Tabular Report</b>	<b>551</b>
Displaying the Report in an ASP.NET Web Page	555
<b>Using the SqlDataAdapter as a DataSource</b>	<b>555</b>
<b>Using an IBindingList as a DataSource</b>	<b>557</b>
<b>Using XML as a DataSource</b>	<b>559</b>
<b>Conditional Report Bands</b>	<b>560</b>

<b>Master-Detail Report</b>	<b>561</b>
<b>Drill-Through Report</b>	<b>563</b>
<b>Label Report</b>	<b>566</b>
<b>Mail Merge Report</b>	<b>567</b>
<b>Caching the Report</b>	<b>567</b>
<b>Parameterized Stored Procedure Report</b>	<b>568</b>
<b>Combining Multiple Reports</b>	<b>572</b>
<b>End-User Report Designer</b>	<b>572</b>
<b>Summary</b>	<b>575</b>
<b>Appendix A</b>	<b>577</b>
<b>Index</b>	<b>615</b>

