

Contents

Foreword	<i>xiii</i>
Acknowledgments	<i>xv</i>
How to Use This Book	<i>xvii</i>

Chapter 1: Introducing ASP.NET1

ASP.NET: The Five-Minute Guide	2
ASP.NET vs. Classic ASP	6
Developing Web Applications	7
Key Concepts for ASP.NET	10
Understanding Web Applications	17
Understanding Web Services	27
Introducing ASP.NET Intrinsic Objects	30
Summary	35

Chapter 2: Web Forms37

What Is a Web Form?	38
Your First Web Application	45
Positioning Controls	51
Browser Rendering	53
Defining Web Form Properties and Methods	55
Understanding Web Form Events	58
Exploring Navigation	61
Understanding Web Form File Structure	65
Content of a Web Form	67
Where to Locate Code?	80
The Shift from Procedural to Object-Oriented	80
Summary	81

Chapter 3: HTML Controls83

Introducing HTML Tags, Elements, and Controls	83
Using HTML Controls	84
Formatting and Style	96

Properties, Methods, and Events	100
Maintaining Page State	109
Why Use HTML Controls?	111
Summary	112

Chapter 4: Web Controls113

Using Web Controls	118
Introducing Web Control Classes and Categories	120
Understanding Intrinsic Controls	121
Exploring List Controls	135
Using Rich Controls	138
Using Validation Controls	142
Implementing Formatting and Style	158
Understanding Event Processing and AutoPostBack	161
Summary	170

Chapter 5: Building Custom Web Controls173

Implementing Web User Controls	174
Creating Active Web User Controls	179
Developing Web Custom Controls	189
Summary	209

Chapter 6: Building Mobile Web Applications211

What Is a Mobile Web Application?	212
Creating a Mobile Web Application	215
Using Mobile Controls	225
Limitations, Problems, and Challenges	243
Summary	247

Chapter 7: Working with Databases249

Reading a Single Row	251
Reading Multiple Rows	258
Performing Updates	261
Using Stored Procedures	270

Working with DataSets	274
Updating DataSets	290
Summary	291

Chapter 8: Data Binding293

Understanding Data Bound Lists	295
Binding Expressions	298
Implementing Data Bound Input Controls	299
Using Templates, Repeaters, DataLists, and DataGrids	308
Putting It Together	319
DataGrid Sorting and Paging	326
Editing and Updating	330
Using Templates with DataGrids	336
Event Bubbling	340
Summary	342

Chapter 9: Working with XML343

Learning XML Basics	344
Using DataSets and XML Schemas	355
Summary	360

Chapter 10: Web Application Architecture361

How ASP.NET Works	362
Exploring Client Browsers and Platforms	364
Working with IIS and ISAPI	366
Understanding the HTTP Runtime, Modules, and Handlers	370
Introducing the ASP.NET Processing Model	380
Processing Page Requests	386
Creating Custom Modules and Handlers	396
Configuring ASP.NET	400
Deploying Applications	407
Using Tracing	417
Summary	425

Chapter 11: Web Application Security	427
Understanding Security	428
Browser Security	431
Implementing Secure Transmission	441
Securing the Web Server	446
IIS Security	448
ASP.NET Impersonation	455
ASP.NET Authentication	457
ASP.NET Authorization	465
Securing Static Content	471
Summary	474
 Chapter 12: Designing Web Applications	 475
Introducing Application Structure and Design	476
Understanding Global.asax	480
Centralizing Error Management	487
Controlling Navigation	496
Using Framesets	504
Using Form, QueryString, and Cookies	509
Managing State	514
Output Caching	535
Summary	541
 Chapter 13: Achieving Scalability	 543
Who Needs Scalability	543
Let's Go (Round) Tripping	546
Load Balancing and State Management	557
Enterprise Services	569
Summary	574
 Chapter 14: Web Services	 577
What Are Web Services?	577
Creating Web Services and Web Service Clients	580
Learning Web Service Standards	588
Using Web Services	596
Designing Web Services	605
Summary	627

Appendix A: Web and ASP Basics	629
Understanding HTML	630
Understanding HTTP	638
Using IIS	640
Using ASP	643
Summary	648
 Appendix B: The What and Why of .NET	 649
The .NET Vision	650
The .NET Framework	654
Summary	660
 Appendix C: The Visual Basic .NET Language	 661
Introducing Language Constructs	663
Learning about Data Types	664
Understanding Error Handling	668
Using Classes	669
Exploring Inheritance	672
Summary	674
 Appendix D: An Overview of ADO.NET	 677
ASP.NET and SQLServer Security	678
Before ADO.NET	679
Exploring ADO.NET	682
Using .NET Data Providers	685
The DataSet Object Model	689
Summary	694
 Appendix E: The Common Language Runtime	 695
Managing Memory in .NET	696
Understanding Intermediate Language and Metadata	700
Locating Assemblies	703
Summary	706

Appendix F: Updating DataSets	707
Writing Changes to a DataTable	708
Updating a Database One Row at a Time	710
Batch Updating a Database	715
Summary	718
 Index	 719



<http://www.springer.com/978-1-59059-009-6>

Moving To ASP.NET

Web Development with VB .NET

Harris, S.; MacDonald, R.

2002, XIX, 768 p., Softcover

ISBN: 978-1-59059-009-6

A product of Apress