

Developing Applications Using Visual Basic 2008: What's New Table of Contents

INTRODUCTION	INTRO-1
Prerequisites	INTRO-2
Installing the Practice Files	INTRO-3
Software Requirements	INTRO-3
Sample Databases	INTRO-3
Security	INTRO-4
Installation	INTRO-4
About the Authors	INTRO-6
INTRODUCING LINQ	1-1
Language Integrated Query	1-2
LINQ Using Visual Basic and C#	1-4
LINQ Syntax	1-7
Basic LINQ Syntax	1-7
Extension Methods	1-9
LINQ and More Complex Objects	1-12
Anonymous Types	1-17
Some Interesting Examples	1-20
LINQ to SQL	1-26
Creating a Data Model	1-26
Calling Stored Procedures	1-32
Using Anonymous Types with SQL	1-34
Modifying SQL Data	1-35
LINQ to DataSets	1-41
LINQ to Typed DataSets	1-41
LINQ to Untyped DataSets	1-44
LINQ to XML	1-46
Generating XML	1-46
Querying XML	1-50
Transforming XML	1-54
Are You Done? Is there More?	1-56
LAB 1: INTRODUCING LINQ	1-61
Lab 1 Overview	1-62
Use LINQ to Objects	1-63

Use LINQ to SQL.....	1-66
Use LINQ to XML.....	1-71
DATA IMPROVEMENTS.....	2-1
Hierarchical Updates	2-2
Hierarchical Updates in Visual Studio 2005.....	2-7
Hierarchical Updates in Visual Studio 2008.....	2-8
Caching Data Locally.....	2-11
Synchronization Services for ADO.NET	2-12
Configuring the Application for Synchronization	2-15
Using Local and Remote Data in the Application.....	2-24
Synchronizing Local and Remote Data.....	2-26
Adding Bidirectional Synchronization.....	2-30
Creating N-Tier Data Applications	2-35
Separating the Business Logic and Data Access Layers	2-38
Building Data Applications with LINQ to SQL.....	2-48
Creating a Data Model.....	2-49
Creating a Data Entry Form.....	2-52
Calling Stored Procedures.....	2-55
LAB 2: DATA IMPROVEMENTS.....	2-65
Lab 2 Overview.....	2-66
Enforce Referential Integrity	2-67
Cache a Local Copy of Data.....	2-71
Separate DataSet Code from TableAdapter Code	2-80
Use LINQ to SQL.....	2-86
GETTING STARTED WITH WPF.....	3-1
Introducing Windows Presentation Foundation (WPF).....	3-2
Graphics and Composition.....	3-4
Important Questions.....	3-5
Investigating a Reference Application.....	3-6
An Inconvenient Truth (or Two)	3-7
WPF and XAML	3-8
Investigating XAML and the WPF Designer	3-9
Your First WPF Application.....	3-9
Investigating Routed Events	3-19
Introducing Content and Grid Controls	3-23
Working with Content Controls	3-23
List Box as Container.....	3-31

Working with the Grid Control	3-34
Placing Controls onto the Grid	3-41
LAB 3: GETTING STARTED WITH WPF	3-53
Lab 3 Overview	3-54
Create the User Interface	3-56
Add Puzzle Behavior	3-60
Shuffle the Puzzle	3-64
REVISITING WPF	4-1
Lay Out the Application.....	4-2
Create the Layout	4-5
Lay Out the Form	4-6
Create the MediaPlayer Control.....	4-14
Create the User Control	4-14
Add Code to the User Control.....	4-22
Create a Data Source and Hook Up Data Binding	4-35
Create the ThumbnailList Class	4-35
Prepare the Window1 Class	4-37
Hook up the Data Binding	4-39
Display the Video	4-41
Add a Data Converter and a Data Template	4-43
Creating a Type Converter.....	4-43
LAB 4: REVISITING WPF	4-53
Lab 4 Overview.....	4-54
Create the Main Form.....	4-56
Create a User Control.....	4-61
Hook Up Data Binding and a Data Template.....	4-65
WINDOWS COMMUNICATION FOUNDATION	5-1
What Is Windows Communication Foundation?	5-2
Monolithic Applications	5-2
COM.....	5-2
DCOM and COM+.....	5-3
Web Services.....	5-3
Enterprise Services and .NET Remoting	5-4
Web Services Enhancements.....	5-4
Windows Communication Foundation	5-4
WCF Building Blocks	5-10

Service Contracts.....	5-10
Data Contracts	5-11
Endpoints	5-12
Bindings	5-15
Hosting a WCF Service	5-17
Create the WCF Service	5-17
Host the Service on a Web Server.....	5-26
Call the Service from a Windows Client Application	5-28
Self-Hosting the WCF Service	5-37
Call the Service from a Windows Client Application	5-40
Defining Multiple Endpoints for a Service	5-48
Configuring WCF Services	5-52
Configure the Host	5-54
Configure the Client	5-61
LAB 5: WINDOWS COMMUNICATION FOUNDATION.....	5-69
Lab 5 Overview	5-70
Create a WCF Service	5-71
Host the WCF Service	5-77
Call the WCF Service from a Client	5-82
Use Configuration Files	5-90
WINDOWS WORKFLOW FOUNDATION	6-1
What Is Windows Workflow Foundation?	6-2
What Types of Applications Might Benefit from Workflow Support?.....	6-5
Creating Your First Workflow.....	6-6
Create a Sequential Workflow Project	6-6
Add Activities to the Workflow.....	6-8
Debug Your Workflow	6-11
Examine the Startup Code.....	6-12
Activities.....	6-16
IfElse Activity.....	6-19
While Activity.....	6-26
Using Rules in Workflows	6-33
Using a RuleSet	6-34
Using the Policy Activity.....	6-35
Calling Methods in Rules	6-40
Hosting a Workflow in a Windows Application.....	6-44
Explore the Solution.....	6-44

Host the Workflow in a Form and Pass Parameters	6-49
Host/Workflow Communication.....	6-53
Create the Interface	6-53
Call Methods in the Host from the Workflow	6-55
Create the Interface Implementation.....	6-59
Hook Up the Plumbing	6-62
State Machine Workflows	6-64
Handling Host Events in the Workflow	6-65
Create the Solution	6-66
Run the Application.....	6-81
LAB 6: WINDOWS WORKFLOW FOUNDATION	6-87
Lab 6 Overview	6-88
Use IfElse and While Activities	6-89
Use a Policy Activity	6-94
Define a State Machine Workflow.....	6-99
Create the Interface and Complete the Workflow	6-102
Create a Windows Host Application	6-112
CLIENT APPLICATION SERVICES.....	7-1
Membership, Roles, and Profiles on the Web	7-2
Introducing Membership Management in ASP.NET	7-3
Introducing Role Management in ASP.NET	7-4
Data Has to Go Somewhere	7-5
Configuring Membership and Roles.....	7-6
Working with Roles	7-9
Client Application Services	7-13
Configure Client Application Services.....	7-14
Using the Authentication Service	7-18
Using the Roles Service.....	7-27
Using the Profiles Service	7-28
Create Your Own Membership and Role Providers.....	7-35
LAB 7: CLIENT APPLICATION SERVICES	7-41
Lab 7 Overview	7-42
Create the Application and Web Service	7-43
Configure Membership and Roles	7-48
Add Client Application Services.....	7-53

CREATING OFFICE APPLICATIONS USING VISUAL STUDIO 2008	8-1
Introducing Office Projects in Visual Studio 2008	8-2
What Can You Do with Office?	8-2
Document vs. Application Customizations	8-4
Ribbon Customizations and Custom Task Panes	8-5
Creating Ribbon Customizations	8-5
Create the Excel Add-In Demo	8-6
An Important Tool: Office Ribbon IDs	8-7
Lay Out the Tab and Group	8-8
Adding the Data Source	8-11
Adding Data and Hooking Events	8-12
Creating a Custom Task Pane	8-14
Managing the Task Pane Display	8-17
Handle the Task Pane and ToggleButton	8-18
Work with Word 2007's Content Controls	8-21
Creating a Form Using Content Controls	8-22
Add a Data Source	8-24
Adding the Content Controls	8-26
Programming Content Controls	8-30
Enhancing Data Binding	8-33
Create an Outlook Form Region	8-36
Create the Add-In Project	8-37
Create the Data Source	8-41
Lay Out the Form Region's Contents	8-45
Add Code to Populate the Mail Message	8-48
What's Next?	8-52
LAB 8: CREATING OFFICE APPLICATIONS USING VISUAL STUDIO 2008	8-57
Lab 8 Overview	8-58
Create a PowerPoint 2007 Add-In	8-59
Add a Custom Task Pane	8-62
Create an Outlook 2007 Add-In with a Form Region	8-67
INDEX	INDEX-1