

OUTLINE DELPHI 2005 FOR .NET JUMP START

CARY JENSEN, PH.D.

COPYRIGHT 2003-2005. CARY JENSEN. JENSEN DATA SYSTEMS, INC.
ALL RIGHTS RESERVED.

JENSEN DATA SYSTEMS, INC.

HTTP://WWW.JENSEN DATASYSTEMS.COM

PHONE: 281-359-3311

EMAIL: INFO@JENSEN DATASYSTEMS.COM

COURSE INCLUDES A 275+ PAGE COURSE BOOK PLUS ALL CODE EXAMPLES PRESENTED ALONG WITH
ADDITIONAL CODE EXAMPLES.

DELPHI 2005 FOR .NET JUMP START

OVERVIEW OF THE MICROSOFT .NET FRAMEWORK.....

THE COMMON LANGUAGE RUNTIME (CLR).....	
THE COMMON TYPE SYSTEM (CTS)	
THE FRAMEWORK CLASS LIBRARY (FCL)	
THE COMMON INTERMEDIATE LANGUAGE (CIL)	
THE BENEFITS OF THE .NET FRAMEWORK.....	
<i>Security</i>	
<i>Consistency</i>	
<i>Deployment</i>	
<i>Platform Independence</i>	

THE NEW IDE (INTEGRATED DEVELOPMENT ENVIRONMENT)

THE WELCOME PAGE.....	
ONE IDE, MULTIPLE PERSONALITIES	
ONE IDE, MULTIPLE LANGUAGES.....	
THE PANES OF THE IDE	
<i>The Tool Palette</i>	
<i>Code Snippets</i>	
<i>The Structure Pane</i>	
<i>The VCL and VCL for .NET Floating Designer</i>	
<i>The Project Manager</i>	
<i>The Object Inspector</i>	
<i>Model View</i>	
<i>Data Explorer</i>	
<i>Configuring the Panes of the IDE</i>	
THE DIALOGS OF THE IDE	
<i>The Add Reference Dialog</i>	
<i>The Options Dialog</i>	
<i>The Project Options Dialog</i>	
<i>The Object Repository</i>	
<i>IDE Error Reporting</i>	
<i>Import/Export Project from/to Visual Studio .NET</i>	

CODE EDITOR.....

CODE FOLDING.....	
REFACTORING	
<i>Symbol Renaming</i>	
<i>Variable and Field Declarations</i>	

- Resource Refactoring*
- Extract Method Refactoring*.....
- REFACTORING EXAMPLE
- Creating the Project*
- Declare Variable and Extract Method*
- SYNCEdit
- ERROR INSIGHT
- HELP INSIGHT
- THE HISTORY MANAGER.....
- The Content Pane*.....
- The Info Pane*.....
- The Diff Pane*
- Configuring the History Manager*.....
- HISTORY MANAGER DEMONSTRATION
- CODE NAVIGATION ENHANCEMENT.....
- TOGGLING CODE TO/FROM COMMENTS.....
- PERSISTENT BOOKMARKS
- USING THE HELP**
- Viewing by Contents*.....
- Using the Index*
- Searching Help*.....
- Remembering Favorites*.....
- Filtering*.....
- TYPES OF APPLICATIONS IN DELPHI 2005**
- CONSOLE APPLICATIONS.....
- WINDOWS FORMS APPLICATIONS
- VCL FOR .NET APPLICATIONS
- ASSEMBLIES
- Strongly Naming an Assembly*
- Installing Assemblies into the Global Assembly Cache (GAC)*
- Using a Class Library*
- Inspecting a Class Library*.....
- WEB FORMS APPLICATIONS
- WEB SERVICE APPLICATIONS.....
- DELPHI LANGUAGE DIFFERENCES**.....
- THE FOR...IN LOOP
- SUPPORT FOR UNICODE AND UTF8 FORMATS.....
- ATTRIBUTES
- NAMESPACES AND UNIT ALIASES.....
- .NET NAMES AND DELPHI RESERVED WORDS.....
- FCL EVENT HANDLERS
- STRING AND STRINGBUILDER.....
- SUPPORT FOR NESTED TYPES
- NESTED TYPE CONSTANTS IN CLASS DECLARATIONS.....
- FORWARD DECLARED RECORD TYPES
- XML DEVELOPMENT WITH DELPHI 2005 FOR .NET**.....
- INTRODUCTION TO XML
- OVERVIEW OF XML DOCUMENTS
- Well-Formed XML Documents*.....
- XML Schema and Valid XML Documents*.....
- The Schema Definition Tool*.....

XML NAMESPACE.....
WRITING XML.....
READING XML.....
USING AN XMLDOCUMENT

DATA ACCESS IN DELPHI FOR .NET

BORLAND COMPATIBILITY DATA ACCESS

- Overview of the Borland Database Engine for .NET.....*
- BDE for .NET Advantages.....*
- BDE for .NET Limitations*
- Overview of dbExpress for .NET.....*
- dbExpress for .NET Advantages*
- dbExpress for .NET Limitations.....*
- Overview of dbGo for .NET.....*
- Advantages of dbGo for .NET.....*
- Limitations of dbGo for .NET.....*
- Overview of MyBase for .NET (ClientDataSets).....*
- MyBase for .NET Advantages.....*
- MyBase for .NET Limitations*
- Overview of IBExpress for .NET.....*
- InterBase Express for .NET Advantages*
- InterBase Express Limitations.....*
- Overview of DataSnap for .NET*
- DataSnap for .NET Advantages.....*
- DataSnap Limitations.....*
- Overview of Third-Party Data Access Mechanisms.....*
- Advantages of Third-Party Data Access Mechanisms*
- Limitations of Third-Party Data Access Mechanisms.....*
- Overview of ADO.NET.....*
- Advantages of ADO.NET.....*
- Limitations of ADO.NET.....*
- Overview of BDP for ADO.NET*
- Advantages of BDP for ADO.NET.....*
- Limitations of BDP for ADO.NET.....*

DATA ACCESS IN THE .NET FRAMEWORK: ADO.NET

ADO.NET DATA ACCESS INTERFACES

- IDbConnection.....*
- IDbCommand.....*
- IDataReader.....*
- IDbDataAdapter.....*
- CommandBuilder*

THE ADO.NET DATA STORAGE CLASSES

- DataSet.....*
- DataTable.....*
- DataRow.....*
- DataColumn.....*
- DataRelation.....*
- DataView.....*
- Constraints.....*
- DataRowView.....*

USING ADO.NET.....

- Using Connections*
- Executing IDbCommand Queries.....*
- Working with IDbDataAdapters*

- Introduction to DataSets*.....
- Creating and Using DataViews*.....
- CurrencyManagers and Controls*.....
- DataSets with Multiple DataTables and DataRelations*.....
- Creating Calculated and Aggregate Fields*.....
- Performing Calculations Programmatically*.....
- Defining Query Parameters*.....
- Query Parameters and the SQL Script Hack*.....
- Synchronizing DataSets and XMLDataDocuments*.....
- BORLAND'S ADO.NET EXTENSION: BDP FOR ADO.NET**
- CONNECTING TO DATA USING BDP FOR ADO.NET
- DELPHI'S DATA EXPLORER AND BDP FOR ADO.NET
- Managing Tables*.....
- Data Migration*.....
- Viewing Data*.....
- Executing SQL Queries*.....
- Testing Stored Procedures*.....
- ADVANCED DELPHI 2005 ADO.NET COMPONENTS**.....
- PROVIDING AND RESOLVING WITH DATASYNC AND DATAHUB
- DataSync*.....
- DataHub*.....
- DATA REMOTING WITH REMOTESERVER AND REMOTECONNECTION
- RemoteServer*.....
- RemoteConnection*.....
- USING DELPHI 2005'S ADVANCE ADO.NET COMPONENT.....
- USING DATASYNC AND DATAHUB
- USING REMOTESERVER AND REMOTECONNECTION
- Creating the Remote Client*.....
- Creating the Remote Server*.....
- WEB DEVELOPMENT WITH ASP.NET**.....
- An Overview of Web Interactions*.....
- HTTP Method Request Types*.....
- SUBMITTING DATA TO ASP.NET PAGES USING HTML
- The Image Tag*.....
- The Anchor Tag*.....
- The <Form> Tag*.....
- OVERVIEW OF ASP.NET.....
- REQUIREMENTS FOR USING IIS
- Configuring IIS to Run ASP.NET Applications*
- Configuring Virtual Directories*.....
- PREPARING AND USING CASSINI.....
- CREATING ASP.NET APPLICATIONS IN DELPHI.....
- Creating the ASP.NET Project*.....
- FlowLayout Versus GridLayout*.....
- Controlling ASP.NET Project Options*.....
- Designing Your Web Form Interface*
- Validation Controls*.....
- USING MORE THAN ONE WEB FORM.....
- The ASP.NET Objects*.....
- Changing Pages from Server-Side Controls*.....
- Reading Data from a Request*.....
- DATA ACCESS AND ASP.NET.....

- WEB FORM LIFE-CYCLE
- STATE MANAGEMENT
- Client-Side State Maintenance Options*
- Server-Side State maintenance Options*
- GLOBAL.ASAX AND WEB.CONFIG
- DEBUGGING ASP.NET PAGES
- Debugging Using Breakpoints*
- TRACING
- Enabling Trace for Single Web Pages*
- Adding Output to Trace*
- Enabling Application-Level Trace*
- USING CUSTOM ERROR PAGES
- DEPLOYING ASP.NET APPLICATIONS
- ASP.NET WEB SERVICES.....**
- CREATING A WEB SERVICE APPLICATION WITH DELPHI FOR .NET
- Defining WebMethods*
- Testing a Web Service*
- Adding the WebService Attribute*
- CALLING A WEB SERVICE WITH DELPHI FOR .NET
- INTEGRATING WITH WIN32 EXECUTABLES.....**
- CALLING WIN32 CODE FROM DELPHI FOR .NET
- Accessing Win32 DLLs*
- More About the DLLImport Attribute*
- Using Virtual Library Interfaces*
- Accessing COM Objects*
- Inspecting the Runtime Callable Wrapper*
- USING .NET EXECUTABLES FROM WIN32
- Exposing .NET Classes As COM Objects*
- Deploying Win32 Apps that Use .NET Objects Through COM*
- CREATING AND USING .NET CLASSES**
- CREATING THE C# CLASS
- USING THE C# CLASS WITH DELPHI FOR .NET
- MIGRATING EXISTING APPLICATIONS**
- CONVERTING FROM WIN32
- WIN32 TO .NET AND BACK

Borland, the Borland Logo, and Delphi are trademarks or registered trademarks of Borland Software Corporation in the United States and other countries. Other product and company names mentioned herein may be the trademarks of their respective owners

For more information about training, consulting, mentoring or development, please contact Jensen Data Systems, Inc. by phone at 281-359-3311 or by email at info@JensenDataSystems.com.