

# Index

## A

### accessing

- document libraries, 84
- Feature collections, 26
- lists, 206-209
  - BDC data in, 59-62
  - item values, 53
- site collection information, 41
- web information, 45

### activating Features, 25, 29-30

### Add Reference dialog box, 19

### Add( ) method

- EventReceivers collection, 77
- Solutions collection, 32
- SPFeatureDefinitionCollection class, 31
- SPMeeting class, 103

### AddColleague( ) method, 308

### Added property (SPSolution class), 33

### AddGroup( ) method, 315

### AddGroupToRole( ) method, 315

### adding

- Assemblies to GAC, 181
- Global Assembly Cache, 236
- JavaScript to Web Parts, 204
- record routing rules, 370
- setup projects, 235
- Web controls to Web Parts, 199
- Web Custom Controls, 166
- Web Parts to Web Part pages, 339-341
- web references, 287
- user profiles to groups, 145

### AddLink( ) method, 308

### AddMeeting( ) method, 298

### AddMeetingFromCal( ) method, 299

### AddMembership( ) method, 308

### AddPinnedLink( ) method, 308

### AddRole( ) method, 315

### AddRoleDef( ) method, 315

### AddUserCollectionToGroup( ) method, 315

### AddUserCollectionToRole( ) method, 315

### AddUserToGroup( ) method, 315

### AddUserToRole( ) method, 315

### AddWebPart( ) method, 338

### AddWebPartToZone( ) method, 338

### AddWorkflowAssociation( ) method, 55

### AdventureWorks SQL database, 113

### AfterProperties property

- (SPItemEventProperties class), 74

### AfterUrl property (SPItemEventProperties class), 74

- agenda fields (Meeting Workspaces), 304
- alerts, viewing, 379-382
- Alerts property (SPWeb class), 42
- Alerts Web Service, 379-382
- AlertTemplate property (SPList class), 48-49
- AllowAnonymousAccess property (SPWeb class), 42
- AllowContentTypes property (SPList class), 48
- AllowDeletion column (lists), 275
- AllowDeletion property (SPList class), 48
- AllowEveryoneViewItems property (SPList class), 48
- AllowMultiResponse property (UpdateList( ) method), 278
- AllowMultiResponses column (lists), 275
- AllowMultiResponses property (SPList class), 48
- AllowRssFeeds property
  - SPList class, 48
  - SPSite class, 36
  - SPWeb class, 42
- AllowUnsafeUpdates property
  - SPSite class, 36
  - SPWeb class, 42
- AllProperties property (SPWeb class), 42
- AllUsers property (SPWeb class), 42
- AllWebs property (SPSite class), 36
- AlternateCssUrl property (SPWeb class), 42
- AlternateHeader property (SPWeb class), 42
- AlterTask( ) method, 365
- AlterToDo( ) method, 360
- AnonymousPermMask column (lists), 274
- AnonymousState property (SPWeb class), 42
- APIs (Application Programming Interfaces)
  - BDC administration, 121-123
  - BDC runtime, 124
    - data access, 126-131
    - direct method execution, 131-132
    - metadata, querying, 124-126
- AppearanceEditorPart control, 174
- applications
  - alerts viewing, 379-382
  - BDC, configuring, 111-114
  - console
    - creating, 21-22
    - deploying, 22-23
  - ExcelServicesHelloWorld, 326-328
  - Feature Enumerator, 29
  - list items, 281-282
  - ListRetriever, 276-277
  - photo album browser, 267-272
  - reading/writing ranges and saving temporary workbooks, 329-332
  - remote, 18
  - server, 17-18
  - web
    - hierarchy, 36
    - site collections, listing, 35
  - Windows Forms
    - DocLibPicker.cs, 89-90
    - Form1.cs, 86-88
- ApplyTheme( ) method, 44
- ApplyWebTemplate( ) method, 44
- approval workflows, 148
- Approve( ) method, 94
- approving files, 94
- architecture (Excel Services), 323
  - Calculation Services, 324
  - Web Access, 324
  - Web service, 325
    - hello world example, 326-328
    - methods, 325-326
    - multiple named ranges client application example, 328-329
    - reading/writing ranges and saving temporary workbooks application, 329-332
    - trusted locations, configuring, 326
- ASP.NET
  - server controls
    - building, 166-168
    - extending, 168-172
    - saving to ViewState, 170-172
    - user controls, compared, 163-166
  - user/server control integration, 184
  - Web Parts
    - accessing lists, 206-209
    - attributes, 194-195
    - connected. See connected Web Parts
    - controls, 173
    - creating, 178-181
    - debugging, 234
    - design mode, 177
    - entering data into lists, 210
    - functionality, 197
    - HelloWorld example, 179-180
    - importing, 188
    - integration, 174
    - JavaScript, adding, 204
    - layout, 197
    - managing, 175-176
    - postbacks, 203
    - properties, 191-196
    - providers, 217
    - rendering in browsers, 199

- SharePoint integration, 185-188
- SharePoint Web Parts, compared, 185
- SimpleLoanCalculator, 192-194
- SQLExecute example, 197-203
- System.Web.dll file reference, 178
- template, 198-199
- testing, 181-183
- third-party tools, 183
- time sheet list example, 205
- Timesheet Entry Web Part example
  - listing, 210-213
  - updating lists, 209-215
  - web controls, adding, 199
  - zones, 178

**assemblies**

- adding to GAC, 181
- PublicKeyToken, retrieving, 186
- references, testing, 21-22
- strong naming, 180

**AssociateWorkflowMarkup( ) method, 338****associations**

- BDC entities, 110
- workflows, 150

**Attachments property (SPListItem class), 51****attendance (meetings), 302-303****attendee responses (meetings), 105****attributes**

- ConnectionConsumer, 223
- ConnectionProvider, 220
- Web Part properties, 194-195

**Audit property**

- SPFolder class, 86
- SPList class, 48
- SPListItem class, 51
- SPSite class, 36
- SPWeb class, 42

**authentication**

- BDC, 110-111
- web services, 299

**AuthenticationMode property (SPWeb class), 42****Author column (lists), 274****Author property**

- SPFile class, 84
- SPWeb class, 42

**AvailableContentTypes property (SPWeb class), 42****B****BackColor property (TextBox class), 168****BaseTemplate property (SPList class), 48****Basetype column (lists), 274****BaseType property (SPList class), 48****batch file for installation, 158-159****BDC (Business Data Catalog), 59, 109, 347**

- administration API, 121-123
- applications, 111-114
- authentication, 110-111
- benefits, 111
- columns in custom lists, 118-119
- compatible web services, 132
- disadvantages, 111
- entities, 110

- actions, 117-118

- associations, 110

- enumerating, 350-351

- finding, 117, 126-132

- methods, 110

- Field Resolver Web Service, 355-356

- fields, enumerating, 355-356

- filter descriptors, enumerating, 354

- ID enumerators, 110

- Line of Business system

- enumerating, 349

- properties, 348

- lists, 59-62

- metadata, querying, 124-126

- methods

- enumerating, 352-353

- instances, 351

- overview, 347-348

- relational data, exposing, 133

- runtime API, 124

- data access, 126-131

- direct method execution, 131-132

- metadata, querying, 124-126

- Web Parts, 114-116

- Web Service, 348

- entities, enumerating, 350-351

- filter descriptors, enumerating, 354

- Line of Business systems, 348-349

- methods, 351-353

**BeforeProperties property**

- (SPLItemEventProperties class), 74

**BeforeUrl property (SPLItemEventProperties class), 74****BehaviorEditorPart control, 174****binary representations (files), 94****breakpoints (Web Parts), 231-233****BreakRoleInheritance( ) method**

- SPList class, 55

- SPListItem class, 57

**btnExecuteSQL control, 202****building**

- BDC compatible web services, 132
- consumer Web Parts, 221-223
- document library explorer, 86
  - DocLibPicker.cs, 89-90
  - Form1.cs, 86-88
- provider Web Parts, 217
  - data interface, 218
  - Web Part, creating, 21-220
- server controls, 166-168
- workflows, 150
  - designing forms, 151-153
  - modeling, 153-155
  - typical roadmap, 150

**built-in style sheets, 213****Business Data Actions Web Part, 114****Business Data Catalog. See BDC****Business Data Item Builder Web Part, 115****Business Data Item List Web Part, 114****Business Data Item Web Part, 114****Business Data Related List Web Part, 115****C****Calculate( ) method (Excel Services Web Services), 325****CalculateA-1( ) method (Excel Services Web Service), 325****CalculateWorkbook( ) method (Excel Services Web Service), 325****calendar events, 105****CAML (Collaborative Application Markup Language), 5**

- comparison operators, 6
- FieldRef extraction utility, 7-8
- list items, querying, 8-11, 62-64, 287-288
- queries, creating, 6
- U2U CAML Query Builder, 11

**Cancel( ) method, 104****Cancel property**

- SPItemEventProperties class, 74
- SPListEventProperties class, 71

**CancelRequest( ) method, 325****CanCreateDwsUrl( ) method, 242****CanReceiveEmail property (SPList class), 48****CatalogZone control, 173, 178****CatchAccessDeniedException property (SPSite class), 36****CertificationDate property (SPSite class), 36****change log query for user profiles, 140-142****change tokens (user profiles), 314****CheckedOutBy property (SPFile class), 84****CheckedOutDate property (SPFile class), 84****CheckForPermissions( ) method, 38****CheckIn( ) method, 91, 94****CheckInComment property (SPFile class), 84****checking in/out files, 91-94****CheckOut( ) method, 91, 94****CheckOutExpires property (SPFile class), 84****CheckOutStatus property (SPFile class), 84****CheckSubWebAndList( ) method, 257****child/parent relationships (lists), 64**

- content types, creating, 65
- hierarchical, traversing, 66-67

**choice list properties (user profiles), 144****claiming workflow tasks, 366****ClaimReleaseTask( ) method, 360, 366****classes**

- document libraries, 84
- ExpandingTextBox, 170
- Features, 26
- GenericWebPart, 184
- ListMetaLogger, 72-73
- MembershipManager, 145
- object model, 16
- ProfilePropertyCollection, 143
- SPChangeToken, 314
- SPContext, 21
- SPEventReceiverBase, 70
- SPFarm, 27-29
- SPFeatureDefinitionCollection, 31
- SPFile
  - CheckIn( ) method, 91
  - CheckOut( ) method, 91
  - methods, 94
  - properties, 84-85
  - SaveBinary( ) method, 93
  - submitting files to records repositories, 373-374
- SPFolder
  - methods, 94
  - properties, 86
- SPItemEventProperties, 74
- SPItemEventReceiver, 69
- SPList
  - enumerating lists, 50-51
  - methods, 55
  - properties, 48-50
- SPListEventProperties, 71
- SPListEventReceiver, 70

- SPListItem
  - list contents, viewing, 52
  - list item values, accessing, 53
  - methods, 57
  - properties, 51
  - Update method, 214
- SPMeeting, 99
  - Add( ) method, 103
  - Cancel( ) method, 104
  - LinkWithEvent( ) method, 105
  - SetAttendeeResponse( ) method, 105
  - Update( ) method, 104-105
- SPSite, 35-36
  - accessing site collection information, 41
  - creating site collections, 39-41
  - Features property, 27
  - instance of, creating, 27-29
  - methods, 38
  - properties, 36-38
  - updating site collections, 42
- SPSiteCollection, 35-36
- SPSolution, 32
  - deploy methods, 34
  - properties, 33
- SPWeb, 36, 42
  - accessing webs information, 45
  - creating webs, 44-45
  - Delete method, 99
  - Features property, 27
  - methods, 44
  - properties, 42-43
  - updating webs, 46
- SPWebApplication, 35-36
- SPWebPartManager, 185
- SPWorkflow, 365
- TextBox, 166
- UserProfileManager, 135, 143
- WebControl, 166
- WebPart, 185
- WebPartManager
  - static connection properties, 224
  - Web Parts, connecting, 223
- WebPartZone, 185
- Close( ) method**
  - SPSite class, 38
  - SPWeb class, 44
- CloseWorkbook( ) method, 325**
- coding workflows, 155-156**
- Collaborative Application Markup Language.**  
See CAML
- collections**
  - EventReceivers, 77
  - Features, 26
  - Solutions, 32
  - SPFeaturePropertyCollection, 30
- columns**
  - custom BDC lists, 118-119
  - lists, 274-275
  - Meeting Series, 300
- comparison operators (CAML), 6**
- Compatibility( ) method, 338**
- compiling setup projects, 237**
- compliance. See records repositories**
- configuring**
  - BDC applications, 111-114
  - development environment, 18-19
    - local, 19-20
    - remote, 20-21
  - domain-level trusts, 151
  - Excel Services trusted locations, 326
  - feature.xml file, 156-157
  - install.bat file, 158-159
  - Records Center connections, 370
  - setup projects, 236
  - workflow.xml file, 157
- ConfirmUsage( ) method, 38**
- connected Web Parts**
  - connecting, 223-226
  - consumers, 221-223
  - providers, 217-220
- ConnectionConsumer attribute (SetCustomer( ) method), 223**
- ConnectionProvider attribute (GetCustomerID( ) method), 220**
- console applications**
  - creating, 21-22
  - deploying, 22-23
- consumer Web Parts, 221-226**
- ConsumerConnectionPoint property (WebPartManager class), 224**
- ConsumerID property (WebPartManager class), 224**
- ContainingDocumentLibrary property (SPFolder class), 86**
- Contains element, 6**
- ContainsCasPolicy property (SPSolution class), 33**
- ContainsGlobalAssembly property (SPSolution class), 33**
- ContainsWebApplicationResource property (SPSolution class), 33**

**content types**

- creating, 65
- event receivers, deploying, 81
- hierarchical list items, querying, 283-285
- Order Item, 65
- Order Parent, 65
- ContentDatabase** property (SPSite class), 36
- ContentType** property (SPListItem class), 51
- ContentTypes** property
  - SPList class, 48
  - SPWeb class, 42
- ContentTypesEnabled** property (SPList class), 48
- Context** property (SPItemEventProperties class), 74
- controls**
  - server, 184
    - ASPNET integration, 184
    - building, 166-168
    - extending, 168-172
    - saving to ViewState, 170-172
    - user controls, compared, 163-166
  - SQLExecute Web Part, 202
  - user
    - ASPNET integration, 184
    - information collection user control, 164-165
    - server controls, compared, 163-166
  - Web Part, 173
    - adding, 199
    - CatalogZone, 178
    - WebPartManager, 175-176
    - WebPartZones, 178
- Convert( )** method, 94
- converting files**, 94
- ConvertWebPartFormat( )** method, 338
- Copy( )** method, 57
- CopyDestinations** property (SPListItem class), 51
- copying files/folders**, 94
- CopyTo( )** method, 94
- core objects**, 207
- CorrelationToken** property, 155
- Create( )** method, 143
- Create New Item** interface, 210
- Create, Retrieve, Update, and Delete (CRUD)**, 274
- CreateChildControls( )** method, 199, 202-203
- Created column (lists)**, 274
- Created** property
  - SPList class, 48
  - SPWeb class, 42
- CreateDws( )** method, 242
- CreateMemberGroup( )** method, 308
- CreateNewFolder( )** method, 257, 263-264

- CreateUserProfile( )** method, 143
- CreateUserProfileByAccountName( )** method, 308
- CRUD (Create, Retrieve, Update, and Delete)**, 274
- Current** property (SPContext object), 207
- CurrentChangeToken** property
  - SPList class, 48
  - SPSite class, 36
- CurrentUser( )** method, 315
- CurrentUser** property (SPWeb class), 43
- CurrentUserId** property (SPItemEventProperties class), 74
- CustomerId** property (ISelectedCustomer interface), 218
- customizing**. See **modifying**

**D**

- data entry (lists)**, 210
- DataSourceControl( )** method, 338
- DateRangesOverlap** element, 6
- deactivating Features**, 29-30
- DeadWebNotificationCount** property (SPSite class), 37
- debugging Web Parts**, 229-230
  - breakpoints, setting, 231-233
  - common SharePoint server, 234
  - development workstations, 229-230
  - local SharePoint server, 234
  - Visual Studio 2005, 230-231
  - Web Part library, compiling, 231
  - without SharePoint or WSS, 233
- decision fields (Meeting Workspaces)**, 304
- DeclarativeCatalogPart** control, 174
- DefaultItemOpen** property (SPList class), 48
- DefaultView** property (SPList class), 48
- DefaultViewUrl** column (lists), 274
- DefaultViewUrl** property (SPList class), 48
- Delete( )** method
  - Imaging Web Service, 257, 263
  - SPFile class, 94
  - SPFolder class, 94
  - SPList class, 55
  - SPListItem class, 57
  - SPSite class, 38
  - SPWeb class, 44, 99
- DeleteWebPart( )** method, 338
- DeleteWorkspace( )** method, 297
- deleting**
  - Document Workspaces, 243-244, 248
  - Feature definitions, 31
  - files, 94

- folders, 94
- images, 263
- list items, 56-57, 281-282
- lists, 53-55
- Meeting Workspaces, 296-297
- meetings, 104, 300-301
- Solutions, 32
- views, 289
- Deny( ) method, 94**
- denying files, 94**
- Deploy( ) method, 34**
- Deployed property (SPSolution class), 33**
- DeployedServers property (SPSolution class), 33**
- DeployedWebApplications property (SPSolution class), 33**
- deploying**
  - console application, 22-23
  - event receivers
    - content types, 81
    - Features, 77-79
    - programmatically, 77
  - Solutions, 34
  - Web Parts, 235
    - compiling setup project, 237
    - configuring setup project, 236
    - MSI-based, 235
    - setup projects, adding, 235
  - workflows, 156-159
- DeploymentState property (SPSolution class), 33**
- Description column (lists), 274**
- Description property**
  - SPList class, 48
  - SPWeb class, 43
  - UpdateList( ) method, 278
- designing workflow forms, 151-153**
- development environment**
  - configuring, 18-19
  - local, 19-20
  - remote, 20-21
- Direction column (lists), 274**
- Direction property**
  - SPList class, 48
  - UpdateList( ) method, 278
- DisplayName property (SPListItem class), 51**
- Dispose( ) method, 38**
- DocLibPicker.cs Windows Forms application, 89-90**
- DocTemplates property (SPWeb class), 43**
- DocTemplateUrl column (lists), 274**
- document libraries**
  - accessing, 84
  - classes, 84

- documents, 84
- explorer, building, 86
  - DocLibPicker.cs, 89-90
  - Form1.cs, 86-88
- overview, 83
- SPFile class, 84-85
- SPFolder class, 86
- uploading documents, 84
- Document Workspaces**
  - creating, 242-244
  - data, retrieving, 244-246
  - deleting, 243-244
  - document ID storage, 251-252
  - folders, 248
  - metadata, retrieving, 246-247
  - overview, 241
  - URLs, validating, 242
  - users, managing, 253
- documents**
  - uploading to document libraries, 84
  - versioning, 91-93
- DoesUserHavePermissions( ) method**
  - SPList class, 55
  - SPListItem class, 57
  - SPSite class, 38
- domain-level trusts, 151**
- Download( ) method, 257, 262**
- downloading images to picture libraries, 262**
- DraftVersionVisibility property (SPList class), 48**

## E

- ECS (Excel Calculation Services), 324**
- Edit in DataSheet interface, 210**
- EditorZone control, 174**
- elements**
  - Contains, 6
  - DateRangesOverlap, 6
  - Eq, 6
  - FieldRef, 6-8
  - Geq, 6
  - IsNotNull, 6
  - IsNull, 6
  - Leq, 6
  - Lt, 6
  - Neq, 6
- Elements.xml file, 78-79**
- EmailAlias column (lists), 275**
- EmailAlias property (SPList class), 48**
- EmailInsertsFolder column (lists), 275**
- EnableAssignedToEmail property (UpdateList( ) method), 278**

**EnableAttachments column (lists), 275**

**EnableAttachments property**

SPList class, 49

UpdateList( ) method, 278

**EnableFolderCreation property (SPList class), 49**

**EnableMinorVersions property (SPList class), 49**

**EnableMinorVersion column (lists), 275**

**EnableModeration column (lists), 275**

**EnableModeration property**

SPList class, 49

UpdateList( ) method, 278

**EnableVersioning column (lists), 275**

**EnableVersioning property**

SPList class, 49

UpdateList( ) method, 278

**entities**

BDC, 110

actions, 117-118

associations, 110

finding, 117, 126-132

methods, 110

LOB, enumerating, 350-351

**EntityStruct struct, 350**

**enumerating**

Feature definitions lists, 27-29

Features, 27-29

fields, 355-356

filter descriptors, 354

Line of Business systems, 349

lists, 48-51

contents, 51-53

item values, 53

LOB system entities, 350-351

methods, 352-353

picture libraries, 258

Solutions, 32-33

**Eq element, 6**

**ErrorMessage property**

SPLItemEventProperties class, 74

SPListEventProperties class, 71

**Event property (SPList class), 49**

**EventReceivers collection, 77**

**EventReceivers property**

SPFile class, 85

SPWeb class, 43

**events**

calendar, 105

handlers, 69

lists, 71, 75

receivers

creating, 70

deploying, 77-81

lists, 70-76

**EventSinkAssembly column (lists), 275**

**EventSinkClass column (lists), 275**

**EventSinkData column (lists), 275**

**EventType property**

SPLItemEventProperties class, 74

SPListEventProperties class, 71

**EWA (Excel Web Access), 324**

**Excel Services**

application logic, 322

architecture, 323-325

business intelligence, 322

Calculation Services (ECS), 324

overview, 322

user-defined functions, creating, 332-335

user-defined libraries, 334

Web Services, 325

hello world example, 326-328

methods, 325-326

multiple named ranges client application

example, 328-329

reading/writing ranges and saving temporary workbooks application, 329-332

trusted locations, configuring, 326

workbook management, 322

**Excel Web Access (EWA), 324**

**ExcelServicesHelloWorld application, 326-328**

**ExecuteProxyUpdates( ) method, 338**

**Exists( ) method, 38**

**Exists property**

SPFile class, 85

SPFolder class, 86

**expanding TextBox control listing, 169-170**

**ExpandingTextBox class, 170**

**extending server controls, 168-172**

**extracting fields from lists, 7-8**

## F

**Feature definitions, 30**

compared, 27

deleting, 31

enumerating, 27-29

installing, 31

properties, 30-31

**Feature Enumerator application, 29**

**Feature.xml file, 78, 156-157**

**FeatureDefinitions property (SPFarm class), 27**

**FeatureId column (lists), 274**

**Features**

activating/deactivating, 25, 29-30

classes, 26

collections, accessing, 26



- defined, 25
- enumerating, 27-29
- packaging, 26
- properties, 30-31
- Features property**
  - SPSite class, 27, 37
  - SPWeb class, 27, 43
- FetchLegalWorkflowActions( ) method, 338**
- Field property (SPListEventProperties class), 71**
- FieldAdded event, 71**
- FieldAdding event, 71**
- FieldDeleted event, 71**
- FieldDeleting event, 71**
- FieldName property (SPListEventProperties class), 71**
- FieldRef element, 6**
- FieldRef extraction utility, 7-8**
- fields (lists), 7-8**
- Fields property**
  - SPList class, 49
  - SPListItem class, 51
- FieldUpdated event, 71**
- FieldUpdating event, 71**
- FieldXml property (SPListEventProperties class), 71**
- File property (SPListItem class), 51**
- files**
  - approving, 94
  - binary representation, 94
  - checking in/out, 91-94
  - converting, 94
  - copying, 94
  - deleting, 94
  - denying, 94
  - Elements.xml, 78-79
  - feature.xml, 78, 156-157
  - install.bat, 158-159
  - moving, 94
  - Program.cs, 21-22
  - publishing, 94
  - restoring to checked-in state, 94
  - saving, 94
  - sending to Recycle Bin, 94
  - submitting to records repositories, 373-374
  - System.Web.dll, 178
  - taking offline, 94
  - transform states, 94
  - updating, 94
  - workflow.xml, 157
- Files property**
  - SPFolder class, 86
  - SPWeb class, 43

- filters**
  - descriptors, 354
  - Finders, 128-129
  - lists, 287-288
- FindDwsDoc( ) method, 251**
- finding BDC entities, 117**
  - direct method execution, 131-132
  - filter Finders, 128-129
  - specific Finders, 126-128
  - wildcard Finders, 130-131
- Flags column (lists), 274**
- Folder property (SPListItem class), 51**
- folders**
  - copying, 94
  - deleting, 94
  - Document Workspace, 248
  - Global Assembly Cache, 236
  - moving, 94
  - picture libraries, 263-264
  - sending to Recycle Bin, 94
  - updating, 94
- Folders property**
  - SPList class, 49
  - SPWeb class, 43
- Form1.cs Windows Forms application, 86-88**
- Forms property (SPList class), 49**

## G

- GenericWebPart class, 184**
- Geq element, 6**
- GetAlerts( ) method, 381**
- GetAllChanges( ) method, 314**
- GetAllUserCollectionFromWeb( ) method, 315**
- GetApiVersion( ) method, 325**
- GetAssemblyMetaData( ) method, 338**
- GetBindingResourceData( ) method, 338**
- GetCatalog( ) method**
  - SPSite class, 38
  - SPWeb class, 44
- GetCell( ) method, 325**
- GetCellA1( ) method, 325**
- GetChanges( ) method**
  - SPList class, 55
  - SPWeb class, 44
  - User Profile Web Change Web Service, 314
- GetCommonColleagues( ) method, 308**
- GetCommonManager( ) method**
  - MembershipManager class, 145
  - User Profile Web Service, 308

- GetCommonMemberships( ) method
  - MembershipManager class, 145
  - User Profile Web Service, 308
- GetConversionState( ) method, 94
- GetConvertedFile( ) method, 94
- GetCurrentChangeToken( ) method, 314
- GetCustomControlList( ) method, 338
- GetCustomerID( ) method, 220
- GetCustomListTemplates( ) method, 38
- GetCustomWebTemplates( ) method, 38
- GetDataFromDataSourceControl( ) method, 338
- GetDocDiscussions( ) method, 44
- GetDwsData( ) method, 244-246
- GetDwsMetaData( ) method, 246-247
- GetFile( ) method, 44
- GetFolder( ) method, 44
- GetFormCapabilityFrom( ) method, 338
- GetGroupCollection( ) method, 315
- GetGroupCollectionFromRole( ) method, 315
- GetGroupCollectionFromSite( ) method, 315
- GetGroupCollectionFromUser( ) method, 315
- GetGroupCollectionFromWeb( ) method, 315
- GetGroupInfo( ) method, 315
- GetInCommon( ) method, 309
- GetItemById( ) method, 55
- GetItemByUniqueId( ) method, 55
- GetItems( ) method, 55
- GetItemsByIds( ) method, 257, 260
- GetItemsXMLData( ) method, 257, 260
- GetList( ) method, 44
- GetListFromUrl( ) method, 44
- GetListItem( ) method, 44
- GetListItems( ) method, 257-258
- GetListsOfType( ) method, 44
- GetPropertyChoiceList( ) method, 309
- GetRange( ) method, 325
- GetRangeA1( ) method, 325
- GetRecycleBinItems( ) method
  - SPSite class, 38
  - SPWeb class, 44
- GetRecycleBinStatistics( ) method, 38
- GetRoleCollection( ) method, 315
- GetRoleCollectionFromGroup( ) method, 315
- GetRoleCollectionFromUser( ) method, 315
- GetRoleCollectionFromWeb( ) method, 315
- GetRoleInfo( ) method, 315
- GetRolesAndPermissionsFor( ) method, 315
- GetSafeAssemblyInfo( ) method, 338, 345
- GetServerInfo( ) method, 376
- GetSessionInformation( ) method, 325
- GetSiteData( ) method, 44
- GetTemplatesForItem( ) method, 360, 366
- GetToDosForItem( ) method, 360
- GetUsageData( ) method, 44
- GetUserAllChanges( ) method, 314
- GetUserChanges( ) method, 314
- GetUserColleagues( ) method, 309
- GetUserCollection( ) method, 315
- GetUserCollectionFromGroup( ) method, 315
- GetUserCollectionFromRole( ) method, 315
- GetUserCollectionFromSite( ) method, 315
- GetUserCollectionFromWeb( ) method, 315
- GetUserCurrentChangeToken( ) method, 314
- GetUserInfo( ) method, 316
- GetUserLinks( ) method, 309
- GetUserLoginFromEmail( ) method, 316
- GetUserMemberships( ) method, 309
- GetUserPinnedLinks( ) method, 309
- GetUserProfileByGuid( ) method, 309
- GetUserProfileByIndex( ) method, 309
- GetUserProfileByName( ) method, 309
- GetUserProfileSchema( ) method, 309
- GetView( ) method, 55
- GetWebPart( ) method, 338, 344
- GetWebPart2( ) method, 338
- GetWebPartCrossPage( ) method, 338
- GetWebPartPage( ) method, 338
- GetWebPartPageConnectionInfo( ) method, 338
- GetWebPartPageDocument( ) method, 338
- GetWebPartProperties( ) method, 338
- GetWebPartProperties2( ) method, 338
- GetWebTemplates( ) method, 38
- GetWorkbook( ) method, 325
- GetWorkflowDataForItem( ) method, 360
- GetWorkflowTaskData( ) method, 360
- GetXmlDataFromDataSource( ) method, 338
- Global Assembly Cache
  - assemblies, adding, 181
  - folders, adding, 236
  - verifying, 237
- groups
  - security principles, enumerating, 316-318
  - User Group Web Service, 315-316
  - user profiles, adding, 145
- Groups property (SPWeb class), 43
- gvResults control, 202

## H

- HasPublishedVersion property (SPListItem class), 51
- HasUniqueScopes column (lists), 275

- hello world Excel Services example, 326-328
- HelloWorld Web Part, 179-180
- HelloWorldSequentialWorkflow Assembly
  - features.xml file, 156-157
  - install.bat file, 158-159
  - workflow designer, 155
  - workflow.xml file, 157
- Hidden column (lists), 275
- Hidden property
  - SPList class, 49
  - UpdateList method, 278
- hierarchical list items, querying, 283-285
- hierarchy
  - lists, 64-67, 206
  - site collections, 36
  - web applications, 36
  - websites, 36
- HostHeaderIsSiteName property (SPSite class), 37
- HTML (Hypertext Markup Language), 213
- I
- IconUrl property (SPFile class), 85
- ID enumerators, 110
- ID property
  - SPListItem class, 51
  - SPSolution class, 33
  - SPWeb class, 43
  - WebPartManager class, 224
- IDs
  - document ID storage, 251-252
  - picture library images, retrieving, 260
- ISAllowsAnonymous property (SPSite class), 37
- images (picture libraries)
  - deleting, 263
  - downloading, 262
  - photo browser example, 266-272
  - renaming, 263
  - retrieving from
    - IDs, 260
    - lists, 258-260
    - XML data, 260-261
  - uploading, 261-262
- ImageUrl column (lists), 274
- ImageUrl property (SPList class), 49
- Imaging Web Service, 256-257, 266-272
- Impersonating property (SPSite class), 37
- ImportCatalogPart control, 174
- importing Web Parts, 188
- InDocumentLibrary property (SPFile class), 85
- InfoPath, 152
- information collection user control, 164-165
- install.bat file, 158-159
- installing
  - Feature definitions, 31
  - Solutions, 32
  - WF templates, 147-148
- instances (workflows), 150
- interfaces
  - Create New Item, 210
  - Edit in DataSheet, 210
  - IPostBackDataHandler, 170-172
  - ISelectedCustomer, 218-220
  - provider Web Part data interface, 218
- IPostBackDataHandler interface, 170-172
- ISelectedCustomer interface, 218-220
- IsIRMed property (SPFile class), 85
- IsNotNull element, 6
- IsNull element, 6
- IsRootWeb property (SPWeb class), 43
- IsWebPartPackage property (SPSolution class), 33
- Item property
  - SPFile class, 85
  - SPFolder class, 86
- ItemAdded event, 75
- ItemAdding event, 75
- ItemAttachmentAdded event, 75
- ItemAttachmentAdding event, 75
- ItemAttachmentDeleted event, 75
- ItemAttachmentDeleting event, 75
- ItemCheckedIn event, 75
- ItemCheckedOut event, 75
- ItemCheckingIn event, 75
- ItemCheckingOut event, 75
- ItemCount column (lists), 274
- ItemCount property (SPList class), 49
- ItemDeleted event, 75
- ItemDeleting event, 75
- ItemFileConverted event, 75
- ItemFileMoved event, 75
- ItemFileMoving event, 75
- items (lists)
  - creating, 56-57, 281-282
  - deleting, 56-57, 281-282
  - event receivers, creating, 73-76
  - events, 75
  - filtering, 287-288
  - hierarchical
    - querying, 283-285
    - traversing, 66-67

- querying, 62-64
- retrieving, 275-277
- revision control, 286
- updating, 56-57, 281-282
- values, accessing, 53

- Items property (SPList class), 49**
- ItemUncheckedOut event, 75**
- ItemUncheckingOut event, 75**
- ItemUpdated event, 75**
- ItemUpdating event, 75**

## J–K

- JavaScript, 204**

- KPIs (Key Performance Indicators), 322**

## L

- Language property (SPWeb class), 43**
- LastContentModifiedDate property (SPSite class), 37**
- LastDeleted column (lists), 274**
- LastItemDeletedDate property (SPList class), 49**
- LastItemModifiedDate property (SPList class), 49**
- LastOperationDetails property (SPSolution class), 33**
- LastOperationEndTime property (SPSolution class), 33**
- LastOperationResult property (SPSolution class), 33**
- LastSecurityModifiedDate property (SPSite class), 37**
- layout (Web Parts), 197**
- LayoutEditorPart control, 174**
- lblError control, 202**
- Length property (SPFile class), 85**
- LengthByUser property (SPFile class), 85**
- Leq element, 6**
- Level property (SPFile class), 85**
- libraries**
  - document
    - accessing, 84
    - classes, 84
    - explorer, building, 86-90
    - overview, 83
    - SPFile class properties, 84-85
    - SPFolder class properties, 86
    - uploading documents, 84

- picture, 94, 255-256
  - deleting images, 263
  - downloading images, 262
  - enumerating, 258
  - folders, creating, 263-264
  - Imaging Web Service, 256-257
  - photo browser example, 266-272
  - renaming images, 263
  - retrieving images, 258-261
  - uploading images, 261-262
- Unclassified Records, 370, 375
- user-defined, 334

### Line of Business systems

- entities, 350-351
- enumerating, 349
- properties, 348

### LinkWithEvent( ) method, 105

### .List object, 207

- List property (SPListEventProperties class), 71**

### ListId property

- SPItemEventProperties class, 74
- SPListEventProperties class, 71

### listings

- alerts viewing application, 379-382
- BDC
  - data in lists, accessing, 60
  - Field Resolver Web Service, 355-356
  - metadata, querying, 125
- consumer Web Part, 221-222
- document library explorer
  - DocLibPicker.cs, 89-90
  - Form1.cs, 86-88
- Document Workspaces
  - creating/deleting, 243-244
  - document ID storage, 251-252
- Elements.xml file, 78-79
- Excel Services user-defined functions
  - example, 333-334
- ExcelServicesHelloWorld application, 326-328
- expanding TextBox control, 169-170
- feature.xml file, 78, 156-157
- Features and Feature Definitions,
  - enumerating, 27-29
- filter descriptors, enumerating, 354
- finding BDC entities
  - direct method execution, 131-132
  - filter Finders, 128-129
  - specific Finders, 127-128
  - wildcard Finders, 130-131
- GetDwsData method, 244-245

- HelloWorld Web Part, 179-180
- information collection user control, 164-165
- install.bat file, configuring, 158-159
- IPostBackDataHandler interface
  - implementation, 170-172
- Line of Business systems, 349-351
- list items
  - creating/deleting, 281-282
  - event receiver, 72-76
  - hierarchical, querying, 284-285
  - hierarchical, traversing, 66
  - manipulation, 54-56
  - querying, 62-63
  - updating, 281-282
  - values, accessing, 53
- ListRetriever application, 276-277
- LOB system and entity, creating, 122-123
- Meeting Workspaces, creating, 98
- meetings, creating, 102-103
- methods, enumerating, 352-353
- numeric textbox server control, 167-168
- Official File Web Service, querying, 374
- photo album browser application, 267-272
- Program.cs file for testing Assembly
  - references, 21-22
- provider Web Part, 219-220
- reading/writing ranges and saving
  - temporary workbooks, 329-332
- SDK sample DWS utility methods, 249-250
- SimpleLoanCalculator Web Part, 192-194
- Spell Checker Web Service, 378
- SQLExecute Web Part, 199-202
- submitting files to records repositories with
  - SPFile class, 373
- Timesheet Entry Web Part, 210-213
- user profiles
  - change history, 312-313
  - change log query, 140-142
  - properties, retrieving, 137-138, 310-311
  - retrieving, 136-137
- versioning example, 91-93
- Versions Web Service, 383
- Web Parts
  - adding to Web Part pages, 339-341
  - connecting, 225-226
  - debugging, 230-231
  - list access, 208-209
  - Manager, 175-176
  - pages, querying, 344-345
  - template, 198-199
  - updating, 342-343
  - workflow tasks, retrieving, 362-363
  - workflow.xml file, configuring, 157
  - WPF data binding to data from User Group
    - Web Service, 316-318
- ListItem property (SPItemEventProperties class), 74**
- ListItemId property (SPItemEventProperties class), 74**
- ListItems property (SPListItem class), 51**
- ListMetaLogger class, 72-73**
- ListPictureLibrary( ) method, 257-258**
- ListRetriever application, 276-277**
- lists**
  - accessing, 206-209
  - BDC
    - custom, columns, 118-119
    - data, accessing, 59-62
  - columns, 274-275
  - contents, viewing, 51-53
  - creating, 53-55
  - data entry, 210
  - deleting, 53-55
  - enumerating, 48-51
  - events, 71
    - handlers, 69
    - receivers, 70-73
  - fields, extracting, 7-8
  - hierarchy, 206
  - items
    - creating, 56-57, 281-282
    - deleting, 56-57, 281-282
    - event receivers, creating, 73-76
    - events, 75
    - filtering, 287-288
    - hierarchical, querying, 283-285
    - hierarchical, traversing, 66-67
    - querying, 62-64
    - retrieving, 275-277
    - revision control, 286
    - updating, 56-57, 281-282
    - values, accessing, 53
  - lookup data, 58
  - managing, 47
  - manipulation listing, 54
  - Meeting Series, 100-101
  - Meeting Workspaces, 100, 304
  - parent/child relationships
    - content types, creating, 65
    - creating, 64
    - hierarchical list, traversing, 66-67
  - picture library images, retrieving, 258-260

- querying, 8-11
- retrieving, 275-277
- schema changing code, testing, 279
- schemas, 277
- Site Feature, 79
- templates, 80
- updating, 53-55, 209-210-215
  - cautions, 214
  - data entry functionality, 213
  - Lists Web Service, 278-281
  - Timesheet Entry Web Part example, 210-213
- views, 289
- Web Part property values, selecting, 195-196

**Lists property**

- SPList class, 49
- SPWeb class, 43

**Lists Web Service, lists, 273**

- creating, 281-282
- deleting, 281-282
- filtering, 287-288
- hierarchical, querying, 283-285
- retrieving, 275-277
- revision control, 286
- updating, 278-282

**ListTemplates property (SPWeb class), 43****ListTitle property**

- SPLItemEventProperties class, 74
- SPListEventProperties class, 71

**LoadPostBackData( ) method, 170-172****LOB system and entity, creating, 122-123****LobSystemInstanceStruct structure properties, 348****local development environment, 19-20****Locale property (SPWeb class), 43****lookup data (lists), 58****Lt element, 6**

## M

**MajorVersion property (SPFile class), 85****MajorVersionLimit column (lists), 275****MajorVersionLimit property (SPList class), 49****MajorwithMinorVersionLimit column (lists), 275****MajorWithMinorVersionsLimit property (SPList class), 49****MakeFullUrl( ) method, 38****managing**

- Document Workspace users, 253
- Excel workbooks, 322

- lists, 47

- Web Parts, 175-176

**MasterUrl property (SPWeb class), 43****Meeting Series columns, 300****Meeting Series list, 100-101****Meeting Workspaces, 291**

- available, listing, 293-294

- creating, 97-98, 295-296

- deleting, 296-297

- details, modifying, 297

- lists, 100

- Meeting Series list, 100-101

**meetings**

- attendance, 302-303

- attendee responses, 105

- calendar events, linking, 105

- creating, 102-104, 298-299

- deleting, 104, 300-301

- lists, 304

- modifying, 104

- restoring, 302

- updating, 301

- sites, creating, 292

- templates, 295

**meetings**

- attendance, 302-303

- attendee responses, 105

- calendar events, linking, 105

- creating, 102-104, 298-299

- deleting, 104, 300-301

- lists, 304

- modifying, 104

- recurring, 101

- restoring, 302

- updating, 301

**MembershipManager class**

- GetCommonManager( ) method, 145

- GetCommonMemberships( ) method, 145

**metadata**

- BDC, 124-126

- Document Workspace, 246-247

**methods**

- Add( )

- EventReceivers collection, 77

- Solutions collection, 32

- SPFeatureDefinitionCollection class, 31

- SPMeeting class, 103

- AddMeetingFromCal( ), 299

- AlterTask( ), 365

- BDC entities, 110

- Cancel( ), 104

- CanCreateDwsUrl( ), 242

- CheckIn( ), 91
  - CheckOut( ), 91
  - ClaimReleaseTask( ), 366
  - Create( ), 143
  - CreateChildControls( ), 199, 202-203
  - CreateDws( ), 242
  - CreateUserProfile( ), 143
  - ddMeeting( ), 298
  - Delete( ), 99
  - DeleteWorkspce( ), 297
  - Deploy( ), 34
  - enumerating, 352-353
  - Excel Services Web Service, 325-326
  - FindDwsDoc( ), 251
  - GetAlerts( ), 381
  - GetCommonManager( ), 145
  - GetCommonMemberships( ), 145
  - GetCustomerId( ), 220
  - GetDwsData( ), 244-246
  - GetDwsMetaData( ), 246-247
  - GetSafeAssemblyInfo( ), 345
  - GetServerInfo( ), 376
  - GetTemplatesForItem( ), 366
  - GetWebPart( ), 344
  - Imaging Web Service, 256
  - instance structures (BDC), 351
  - LinkWithEvent( ), 105
  - LoadPostBackData( ), 170-172
  - PostBacks( ), 170-172
  - RaisePostDataChangedEvent( ), 170-172
  - Remove( ), 32
  - RemoveDwsUser( ), 253
  - RemoveMeeting( ), 300
  - Render( )
    - ExpandingTextBox class, 170
    - Web Parts, 199
  - Resolve( ), 356
  - RestoreMeeting( ), 302
  - Retract( ), 34
  - SaveBinary( ), 93
  - SendToOfficialFile( ), 373
  - SetAttendeeResponse( ), 105
  - SetCustomer( ), 223
  - SetWorkspaceTitle( ), 297
  - SpellCheck( ), 378
  - SPFile class, 94
  - SPFolder class, 94
  - SPList( ), 55
  - SPList class, 55
  - SPListItem class, 57
  - SPSite class, 38
  - SPWeb class, 44
  - StartWorkflow( ), 367
  - SubmitFile( ), 375
  - Update( )
    - SPListItem class, 214
    - SPMeeting class, 104-105
  - UpdateList( ), 278
  - UpdateMeetingFromlCal( ), 301
  - User Group Web Services, 315-316
  - User Profile Web Change Web Service, 312-314
  - User Profile Web Services, 308-309
  - Web Part Pages Web Service, 337-339
  - MethodStruct structure, 351**
  - Microsoft Office SharePoint Server (MOSS), 15**
  - Microsoft.Office.Server namespace, 16**
  - Microsoft.SharePoint namespace, 16**
  - MinorVersion property (SPFile class), 85**
  - MobileDefaultViewUrl property (SPList class), 49**
  - modeling workflows, 153-155**
  - Modified column (lists), 274**
  - modifying**
    - list data, 213-215
    - Meeting Workspace details, 297
    - meetings, 104
    - records centers, 372
    - user profiles, 140
    - Web Parts. *See also* properties, Web Parts
      - JavaScript, adding, 204
      - postbacks, 203
      - rendering in browsers, 199
      - SQLExecute example, 199-203
      - template, 198-199
      - web controls, 199
      - workflow tasks, 365-366
  - ModifyUserPropertyByAccountName( )**
    - method, 309**
  - MOSS (Microsoft Office SharePoint Server), 15**
  - MoveTo( ) method, 94**
  - moving files/folders, 94**
  - MSI-based Web Part deployment, 235**
  - MultipleDataList column (lists), 275**
  - MultipleDataList property**
    - SPList class, 49
    - UpdateList( ) method, 279
  - multivalued properties, 144**
- ## N
- Name column (lists), 274**
  - Name property**
    - SPFile class, 85
    - SPFolder class, 86

- SPListItem class, 51
- SPSolution class, 33
- SPWeb class, 43
- naming images, 263
- Navigation property (SPWeb class), 43
- Neq element, 6
- NoCrawl property (SPList class), 49
- Northwind database, 219-220
- numeric textbox server control, 167-168

## O

**object models**

- applications on the server, developing, 17-18
- BDC
  - administration, 121-123
  - runtime. See BDC, runtime API
- classes, 16
- console application
  - creating, 21-22
  - deploying, 22-23
- document libraries support, 84
- Features
  - activating/deactivating, 29-30
  - classes, 26
  - collections, accessing, 26
  - enumerating, 27-29
  - Feature definitions, 27-31
  - properties, 30-31
- namespaces, 16
- remote applications, developing, 18
- Solutions
  - deleting, 32
  - deploying, 34
  - enumerating, 32-33
  - installing, 32
- user profiles
  - change log history query, 140-142
  - common data, retrieving, 145-146
  - creating, 143
  - groups, adding, 145
  - modifying, 140
  - properties, 143-144
  - property retrieval, 137-139
  - retrieving, 135-137
- Web Parts, developing, 18

**objective fields (Meeting Workspaces), 304**

**objects**

- core, 207
- .List, 207
- .Site, 207

- SPContext, 207-209
- SPFeatureProperty, 30
- SPQuery, 7
- .Web, 207
- Official File Web Service**
  - querying, 374-375
  - record repositories, creating, 375-376
  - Records Center, 370
- offline files, 94
- OpenBinary( ) method, 94
- OpenWeb( ) method, 38
- OpenWorkbook( ) method, 325
- Order Item content type, 65
- Order Parent content type, 65
- Ordered column (lists), 275
- Ordered property (UpdateList( ) method), 279
- Owner property (SPSite class), 37

## P

- packaging Features, 26
- PageCatalogPart control, 174
- parent/child relationships (lists), 64
  - content types, creating, 65
  - hierarchical list, traversing, 66-67
- ParentFolder property**
  - SPFile class, 85
  - SPFolder class, 86
- ParentList property (SPListItem class), 51**
- ParentListId property (SPFolder class), 86**
- ParentWeb property**
  - SPFolder class, 86
  - SPList class, 49
  - SPWeb class, 43
- ParentWebUrl property (SPList class), 49**
- Passthrough authentication mode (BDC), 110**
- Personalization attribute, 194**
- photo album browser application, 267-272**
- photos. See images**
- picture libraries, 94, 255-256**
  - enumerating, 258
  - folders, creating, 263-264
  - images
    - deleting, 263
    - downloading, 262
    - renaming, 263
    - retrieving, 258-261
    - uploading, 261-262
  - Imaging Web Service, 256-257
  - photo browser example, 266-272
- Port property (SPSite class), 37**



- PortalMember property (SPWeb class), 43**
  - PortalName property (SPWeb class), 43**
  - PortalSubscription property (SPWeb class), 43**
  - PortalUrl property**
    - SPSite class, 37
    - SPWeb class, 43
  - postbacks (Web Parts), 203**
  - PostBacks( ) method, 170-172**
  - posting data back to servers, 170-172**
  - PresenceEnabled property (SPWeb class), 43**
  - ProfilePropertyCollection class, 143**
  - profiles (user)**
    - change history, 312-313
    - change log history query, 140-142
    - choice list properties, 144
    - common data, retrieving, 145-146
    - creating, 143
    - groups, adding, 145
    - modifying, 140
    - new features, 307-308
    - properties
      - creating, 143-144
      - multivalued properties, 144
      - retrieving, 137-139, 310-311
    - retrieving, 135-137
    - User Profile Web Service, 308-309
    - value separators for properties, 144
  - Program.cs file, 21-22**
  - properties**
    - BackColor, 168
    - ConsumerConnectionPoint, 224
    - ConsumerID, 224
    - CorrelationToken, 155
    - Current, 207
    - CustomerID, 218
    - Feature definitions, 30-31
    - FeatureDefinitions, 27
    - Features, 27, 30-31
    - ID, 224
    - Line of Business system instance, 348
    - list updatable, 278
    - LobSystemInstanceStruct structure, 348
    - MethodStruct structure, 351
    - Properties, 30
    - ProviderID, 224
    - Sites, 35
    - Solutions, 32
    - SPFile class, 84-85
    - SPFolder class, 86
    - SPLItemEventProperties class, 74
    - SPList class, 48-50
    - SPListEventProperties, 71
    - SPListItem class, 51
    - SPSite class, 36-38
    - SPSolution class, 33
    - SPWeb class, 42-43
    - user profiles
      - choice list, 144
      - creating, 143-144
      - multivalued, 144
      - retrieving, 137-139, 310-311
      - value separators, 144
    - Web Parts, 191-195
      - attributes, 194-195
      - selecting from lists, 195-196
      - SimpleLoanCalculator example, 192-194
    - WebApplication, 22
  - Properties property**
    - SPFeaturePropertyCollection collection, 30
    - SPFile class, 85
    - SPFolder class, 86
    - SPListItem class, 51
    - SPSolution class, 33
  - PropertiesXml property (SPList class), 49**
  - property bags, 30**
  - PropertyGridEditorPart control, 174**
  - Protocol property (SPSite class), 37**
  - provider Web Parts, 217**
    - connecting with consumer Web Parts, 223-226
    - data interface, 218
    - Web Part, creating, 218-220
  - ProviderID property (WebPartManager class), 224**
  - ProxyWebPartManager control, 173**
  - PublicKeyToken, 186**
  - Publish( ) method, 94**
  - publishing files, 94**
- ## Q
- queries (CAML)**
    - creating, 6
    - lists, 8-11, 287-288
    - U2U CAML Query Builder, 11
  - querying**
    - BDC metadata, 124-126
    - list items, 62-64, 283-285
    - Official File Web Service, 374-375
    - Web Part pages, 344-345

## R

**RaisePostDataChangedEvent( ) method, 170-172**

**RdbCredentials authentication mode (BDC), 110**

**ReadLocked property (SPSite class), 37**

**ReadOnly property (SPSite class), 37**

**ReceiverData property**

SPItemEventProperties class, 74

SPListEventProperties class, 71

**record routing rules, adding, 370**

**Records Center**

connections, configuring, 370

files, submitting, 373-374

modifying, 372

Official File Web Service

linking, 370

querying, 374-375

record routing rules, 370

site definition, 370

**records repositories**

creating, 375-376

files, submitting, 373-374

metadata information storage example, 372

Official File Web Service, 374-375

overview, 369

Records Center

connections, configuring, 370

files, submitting, 373-374

modifying, 372

Official File Web Service, 370, 374-375

record routing rules, 370

site definition, 370

**recurring meetings, 101**

**Recycle Bin, 94**

**Recycle( ) method, 94**

**RecycleBin property**

SPSite class, 37

SPWeb class, 43

**references**

Assembly, 21-22

System.Web.dll file, 178

**Refresh( ) method, 325**

**relational data, exposing, 133**

**RelativeWebUrl property**

(SPItemEventProperties class), 74

**releasing workflow tasks, 366**

**remote applications, developing, 18**

**remote development environment, 20-21**

**Remove( ) method, 32**

**RemoveColleague( ) method, 309**

**RemoveDwsUser( ) method, 253**

**RemoveGroup( ) method, 316**

**RemoveGroupFromRole( ) method, 316**

**RemoveLink( ) method, 309**

**RemoveMeeting( ) method, 300**

**RemoveMembership( ) method, 309**

**RemovePinnedLink( ) method, 309**

**RemoveRole( ) method, 316**

**RemoveUserCollectionFromGroup( ) method, 316**

**RemoveUserCollectionFromRole( ) method, 316**

**RemoveUserCollectionFromSite( ) method, 316**

**RemoveUserFromGroup( ) method, 316**

**RemoveUserFromRole( ) method, 316**

**RemoveUserFromSite( ) method, 316**

**RemoveUserFromWeb( ) method, 316**

**RemoveWorkflowAssociation( ) method, 339**

**Rename( ) method, 257**

**renaming images, 263**

**Render( ) method**

ExpandingTextBox class, 170

Web Parts, 199

**RenderAsHtml( ) method, 55**

**RenderWebPartForEdit( ) method, 339**

**RequireCheckout column (lists), 275**

**Resolve( ) method, 356**

**RestoreMeeting( ) method, 302**

**restoring**

files, 94

meetings, 302

**Retract( ) method, 34**

**retrieving**

commonalities among user profiles, 145-146

Document Workspace data, 244-247

list items, 275-277

picture library images

IDs, 260

lists, 258-260

XML data, 260-261

task data, 367

user profile properties, 135-139, 310-311

workflows

data, 361-362

tasks, 362-365

templates, 366-367

**RevertToSelf authentication mode (BDC), 110**

**revision control (lists), 286**

**RootFolder column (lists), 274**

**RootFolder property**

SPList class, 50

SPWeb class, 43

**RootWeb property (SPSite class), 37**

## S

**Safe Assemblies, 345****SaveAsTemplate( ) method**

SPList class, 55

SPWeb class, 44

**SaveBinary( ) method, 93-94****SaveWebPart( ) method, 339****SaveWebPart2( ) method, 339****saving**

files, 94

server controls to ViewState, 170-172

**schemas (lists), 277****SchemaXml property (SPList class), 50****Scopeld column (lists), 275****SearchDocuments( ) method, 44****SearchListItems( ) method, 44****SearchServiceInstance property (SPSite class), 37****SecondaryContact property (SPSite class), 37****security groups, 316-318****SelfServiceCreateSite( ) method, 38****SendToLocation column (lists), 275****SendToLocationName property (SPList class), 50****SendToLocationUrl property (SPList class), 50****SendToOfficialFile( ) method, 373****server controls**

ASP.NET integration, 184

building, 166-168

extending, 168-172

saving to ViewState, 170-172

user controls, compared, 163-166

**ServerRedirected property (SPFile class), 85****ServerRelativeUrl property**

SPFile class, 85

SPFolder class, 86

SPSite class, 37

SPWeb class, 43

**servers**

applications on, developing, 17-18

posting data back to, 170-172

**ServerTemplate column (lists), 274****services**

Excel, 322

application logic, 322

architecture, 323

business intelligence, 322

Excel Calculation Services, 324

Excel Web Access, 324

hello world example, 326-328

multiple named ranges client application  
example, 328-329

reading/writing ranges and saving tem-

porary workbooks application, 329-332

trusted locations, 326

user-defined functions, creating, 332-335

user-defined libraries, 334

web service, 325-326

workbook management, 322

web. See web services

**SetAttendeeResponse( ) method, 105****SetCell( ) method, 325****SetCellA1( ) method, 326****SetCustomer( ) method, 223****SetRange( ) method, 326****SetRangeA1( ) method, 326**

setup projects, adding, 235

**SetWorkspaceTitle( ) method, 297****Sharepoint 2007 SDK template, 148****ShowUser column (lists), 275****ShowUser property (UpdateList( ) method), 279****SimpleLoanCalculator Web Part, 192-194****Single Sign-On authentication mode (BDC), 110****site collections**

creating, 39-41

defined, 35

hierarchy, 36

information, accessing, 41

listing, 35

SPSite class, 36-38

**site context console application**

creating, 21-22

deploying, 22-23

**Site Feature list, 79****Site( ) method, 315****.Site object, 207****Site property (SPWeb class), 43****SiteId property**

SPItemEventProperties class, 74

SPListEventProperties class, 71

**SiteLogoUrl property (SPWeb class), 43****sites**

Document Workspace, 241

creating, 242-244

data, retrieving, 244-246

deleting, 243-244

document ID storage, 251-252

folders, 248

metadata, retrieving, 246-247

URLs, validating, 242

users, managing, 253

Meeting Workspaces, 291

available, listing, 293-294

creating, 292

details, modifying, 297

- Sites property (SPWebApplication class), 35**
- SmartPart, 183**
- SolutionFile property (SPSolution class), 33**
- SolutionId property (SPSolution class), 33**
- Solutions**
  - deleting, 32
  - deploying, 34
  - enumerating, 32-33
  - installing, 32
- Solutions collection, 32**
- Solutions property, 32**
- SourceLeafName property (SPFile class), 85**
- SourceUIVersion property (SPFile class), 85**
- SPChangeToken class, 314**
- SPContext class, 21**
- SPContext object, 207**
  - Current property, 207
  - referencing timesheet list, 208-209
- SPElementDefinition class, 26**
- Spell Checker Web Service, 377-379**
- SpellCheck( ) method, 378**
- SPEventReceiverBase class, 70**
- SPFarm class**
  - FeatureDefinitions property, 27
  - instance of, creating, 27-29
- SPFeature class, 26**
- SPFeatureCollection class, 26**
- SPFeatureDefinition class, 26**
- SPFeatureDefinitionCollection class, 31**
- SPFeatureDependency class, 26**
- SPFeatureProperty class, 26**
- SPFeatureProperty objects, 30**
- SPFeaturePropertyCollection class, 26**
- SPFeaturePropertyCollection collection, 30**
- SPFeatureScope class, 26**
- SPFile class**
  - methods, 91-94
  - properties, 84-85
  - submitting files to records repositories, 373-374
- SPFolder class**
  - methods, 94
  - properties, 86
- SPItemEventProperties class, 74**
- SPItemEventReceiver class, 69**
- SPList class**
  - lists, enumerating, 50-51
  - methods, 55
  - properties, 48-50
    - AlertTemplate, 48-49
    - AllowContentTypes, 48
    - AllowDeletion, 48
    - AllowEveryoneViewItems, 48
    - AllowMultiResponses, 48
    - AllowRssFeeds, 48
    - Audit, 48
    - BaseTemplate, 48
    - BaseType, 48
    - CanReceiveEmail, 48
    - ContentTypes, 48
    - ContentTypesEnabled, 48
    - Created, 48
    - CurrentChangeToken, 48
    - DefaultItemOpen, 48
    - DefaultView, 48
    - DefaultViewUrl, 48
    - Description, 48
    - Direction, 48
    - DraftVersionVisibility, 48
    - EmailAlias, 48
    - EnableAttachments, 49
    - EnableFolderCreation, 49
    - EnableMinorVersions, 49
    - EnableModeration, 49
    - EnableVersioning, 49
    - Event, 49
    - Fields, 49
    - Folders, 49
    - Forms, 49
    - Hidden, 49
    - ImageUrl, 49
    - ItemCount, 49
    - Items, 49
    - LastItemDeletedDate, 49
    - LastItemModifiedDate, 49
    - Lists, 49
    - MajorVersionLimit, 49
    - MajorWithMinorVersionsLimit, 49
    - MobileDefaultViewUrl, 49
    - MultipleDataList, 49
    - NoCrawl, 49
    - ParentWeb, 49
    - ParentWebUrl, 49
    - PropertiesXml, 49
    - RootFolder, 50
    - SchemaXml, 50
    - SendToLocationName, 50
    - SendToLocationUrl, 50
    - Title, 50
    - Version, 50
    - Views, 50
    - WorkflowAssociations, 50

- SPListEventProperties class, 71**
  - SPListEventReceiver class, 70**
  - SPListItem class**
    - lists
      - contents, viewing, 52
      - values, accessing, 53
    - methods, 57
    - properties, 51
    - Update method, 214
  - SPMeeting class, 99**
    - Add( ) method, 103
    - Cancel( ) method, 104
    - LinkWithEvent( ) method, 105
    - SetAttendeeResponse( ) method, 105
    - Update( ) method, 104-105
  - SPQuery object, 7**
  - SPSite class, 35-36**
    - Features property, 27
    - instance of, creating, 27-29
    - methods, 38
    - properties, 36-38
      - AllowRssFeeds, 36
      - AllowUnsafeUpdates, 36
      - AllWebs, 36
      - Audit, 36
      - CatchAccessDeniedException, 36
      - CertificationDate, 36
      - ContentDatabase, 36
      - CurrentChangeToken, 36
      - DeadWebNotificationCount, 37
      - Features, 37
      - HostHeaderIsSiteName, 37
      - IISAllowsAnonymous, 37
      - Impersonating, 37
      - LastContentModifiedDate, 37
      - LastSecurityModifiedDate, 37
      - Owner, 37
      - Port, 37
      - PortalUrl, 37
      - Protocol, 37
      - ReadLocked, 37
      - ReadOnly, 37
      - RecycleBin, 37
      - RootWeb, 37
      - SearchServiceInstance, 37
      - SecondaryContact, 37
      - ServerRelativeUrl, 37
      - SyndicationEnabled, 37
      - UpgradeRedirectedUri, 37
      - Url, 37
      - Usage, 37
      - WebApplication, 38
      - WorkflowManager, 38
      - WriteLocked, 38
      - Zone, 38
    - site collections
      - creating, 39-41
      - information, accessing, 41
      - updating, 42
  - SPSiteCollection class, 35-36**
  - SPSolution class, 32**
    - deploy methods, 34
    - properties, 33
  - SPWeb class, 36, 42**
    - Delete( ) method, 99
    - Features property, 27
    - methods, 44
    - properties, 42-43
    - webs
      - creating, 44-45
      - information, accessing, 45
      - updating, 46
  - SPWebApplication class, 35-36**
  - SPWebPartManager class, 185**
  - SPWorkflow class, 365**
  - SQLExecute Web Part, 197**
    - controls, 202
    - CreateChildControls event, 202-203
    - listing, 199-202
    - postbakcs, 203
  - starting workflows, 367**
  - StartWorkflow( ) method, 360, 367**
  - Status property**
    - SPLtemEventProperties class, 74
    - SPListEventProperties class, 71
  - StorageManagementInformation( ) method, 38**
  - strong naming Assemblies, 180**
  - stsadm.exe command, 79**
  - style sheets, 213**
  - SubFolders property (SPFolder class), 86**
  - SubmitFile( ) method, 375**
  - SyndicationEnabled property (SPSite class), 37**
  - System.Web.dll file, 178**
- ## T
- TakeOffline( ) method, 94**
  - tasks**
    - claiming, 366
    - data, retrieving, 367
    - modifying, 365-366
    - releasing, 366
    - retrieving, 362-365

**Tasks property (SPListItem class), 51**

**templates**

- lists, 80
- Meeting Workspaces, 295
- Web Custom Control, 166
- web IDs, 40-41
- Web Parts, 198-199
- WF, 147-148
- workflow, 149, 366-367

**testing**

- Assembly references, 21-22
- schema changing code for lists, 279
- Web Parts, 181-183

**TextBox class, 166**

**Theme property (SPWeb class), 43**

**things to bring fields (Meeting Workspaces), 304**

**ThumbnailSize column (lists), 274**

**time sheet list example, 205**

- accessing, 206-209
- data entry, 210
- hierarchy, 206
- updating, 209-215

**TimeCreated property (SPFile class), 85**

**TimeLastModified property (SPFile class), 85**

**Timesheet Entry Web Part example, 210-213**

**Title column (lists), 274**

**Title property**

- SPFile class, 85
- SPList class, 50
- SPListItem class, 51
- SPWeb class, 43
- UpdateList( ) method, 279

**tools**

- FieldRef extraction, 7-8
- third-party Web Parts, 183
- U2U CAML Query Builder, 11
- Web Parts, 183

**TotalLength property (SPFile class), 85**

**transform states, 94**

**trusts (domain-level), configuring, 151**

**txtSQL control, 202**

## U

**U2U CAML Query Builder, 11**

**UIVersion property (SPFile class), 85**

**UIVersionLabel property (SPFile class), 85**

**Unclassified Records library, 370, 375**

**UndoCheckOut( ) method, 94**

**uniform resource locators (URLs), 242**

**UniqueID parameter, 220**

**Uniqueid property**

- SPFile class, 85
- SPFolder class, 86
- SPListItem class, 51

**UnPublish( ) method, 94**

**Update( ) method**

- SPFile class, 94
- SPFolder class, 94
- SPList class, 55
- SPListItem class, 57, 214
- SPMeeting class, 104-105
- SPWeb class, 44

**UpdateColleaguePrivacy( ) method, 309**

**UpdateGroupInfo( ) method, 316**

**UpdateLink( ) method, 309**

**UpdateList( ) method, 278**

**UpdateMeetingFromICal( ) method, 301**

**UpdateMembershipPrivacy( ) method, 309**

**UpdateOverwriteVersion( ) method, 57**

**UpdatePinnedLink( ) method, 309**

**UpdateRoleDefInfo( ) method, 316**

**UpdateRoleInfo( ) method, 316**

**UpdateUserInfo( ) method, 316**

**updating**

- files, 94
- folders, 94
- lists, 53-57, 209-215
  - cautions, 214
  - data entry functionality, 213
  - Lists Web Service, 278-282
  - Timesheet Entry Web Part example, 210-213
- meetings, 301
- site collections, 42
- Web Parts, 342-343
- webs, 46

**UpgradeRedirectUrl property (SPSite class), 37**

**Upload( ) method, 257, 262**

**uploading**

- documents to document libraries, 84
- images to picture libraries, 261-262

**Url property**

- SPFile class, 85
- SPFolder class, 86
- SPListItem class, 51
- SPSite class, 37
- SPWeb class, 43

**URLs (uniform resource locators), 242**

**Usage property (SPSite class), 37**

**user controls**

- ASRNET integration, 184
- information collection user control, 164-165
- server controls, compared, 163-166

**User Group Web Service**  
 methods, 315-316  
 WPF data binding, 316-318

**user groups**  
 security principles, enumerating, 316-318  
 User Group Web Service, 315-316

**User Profile Web Change Web Service, 312-314**

**User Profile Web Service**  
 methods, 308-309  
 user profile properties, retrieving, 310-311

**user profiles**  
 change history, 312-313  
 change log history query, 140-142  
 common data, retrieving, 145-146  
 creating, 143  
 groups, adding, 145  
 modifying, 140  
 new features, 307-308  
 properties  
   choice list, 144  
   creating, 143-144  
   multivalued, 144  
   retrieving, 137-139  
   value separators, 144  
 properties, retrieving, 310-311  
 retrieving, 135, 137  
 User Profile Web Service, 308-309

**user-defined functions, 332-335**

**user-defined libraries, 334**

**UserDisplayName property**  
 SPltemEventProperties class, 74  
 SPListEventProperties class, 71

**UserLoginName property**  
 SPltemEventProperties class, 74  
 SPListEventProperties class, 71

**UserProfileManager class, 135, 143**

**utilities. See tools**

## V

**ValidateWorkflowMarkupAndCreateSupport-Objects( ) method, 339**

**validating Document Workspace URLs, 242**

**value separators (properties), 144**

**VBA (Visual Basic for Applications), 332-335**

**verifying Global Assembly Cache, 237**

**versioning, 91**  
 checking files in/out, 91  
 example, 91-93

**Version column (lists), 274**

**Version property (SPList class), 50**

**Versionless property (SPltemEventProperties class), 74**

**Versions property**  
 SPFile class, 85  
 SPListItem class, 51

**Versions Web Service, 383-384**

**views**  
 alerts, 379-382  
 built-in style sheets, 213  
 creating, 288-289  
 deleting, 289  
 list contents, 51-53  
 list of, 289  
 user profile changes, 312-313

**Views property (SPList class), 50**

**Views Web Service, views, 288-289**

**ViewState of server controls, 170-172**

**Visual Basic for Applications (VBA), 332-335**

**Visual C# 2005 Express Edition download, 18**

**Visual Studio 2005**  
 Extensions for Windows Workflow Foundation, 148  
 Web Parts, debugging, 230-231  
 web references, adding, 287  
 workflows, modeling, 153-155

## W

**web applications**  
 hierarchy, 36  
 site collections, 35

**Web Custom Controls, 166**

**.Web object, 207**

**Web Part pages**  
 querying, 344-345  
 Safe Assemblies, 345  
 Web Parts  
   adding, 339-341  
   updating, 342-343  
 Web Service  
   adding Web Parts, 339-341  
   methods, 337-339  
   Safe Assemblies, 345  
   Web Part pages, querying, 344-345  
   updating Web Parts, 342-343

**Web Parts**  
 adding to Web Part pages, 339-341  
 BDC, 114-116  
 connecting, 223-226  
 consumers, 221-223

- controls, 173
  - CatalogZone, 178
  - WebPartManager, 175-176
  - WebPartZones, 178
- creating, 18, 178-181
- debugging, 229-230
  - breakpoints, setting, 231-233
  - common SharePoint server, 234
  - development workstations, 229-230
  - local SharePoint server, 234
  - Visual Studio 2005, 230-231
  - Web Part library, compiling, 231
  - without SharePoint or WSS, 233
- deploying, 235
  - compiling setup project, 237
  - configuring setup project, 236
  - MSI-based, 235
  - setup projects, adding, 235
- design mode, 177
- functionality, 197
- HelloWorld example, 179-180
- importing, 188
- integration, 174
- JavaScript, adding, 204
- layout, 197
- library, compiling, 231
- lists
  - accessing, 206-209
  - data entry, 210
  - updating, 209-215
- managing, 175-176
- postbacks, 203
- properties, 191-195
  - attributes, 194-195
  - selecting from lists, 195-196
  - SimpleLoanCalculator example, 192-194
- providers, 217-220
- rendering in browsers, 199
- SharePoint, 185-188
- SQLExecute example, 197
  - controls, 202
  - CreateChildControls event, 202-203
  - listing, 199-202
  - postbacks, 203
- System.Web.dll file reference, 178
- template, 198-199
- testing, 181-183
- third-party tools, 183
- time sheet list example, 205-206
- Timesheet Entry Web Part example listing, 210-213
  - updating, 342-343
  - web controls, adding, 199
  - zones, 178
- Web property**
  - SPListEventProperties class, 71
  - SPListItem class, 51
- web references, adding, 287**
- web services**
  - Alerts, 379-382
  - authentication, 299
  - BDC, 348
    - compatible, 132
    - entities, enumerating, 350-351
    - Field Resolver, 355-356
    - filter descriptors, enumerating, 354
    - Line of Business systems, 348-349
    - methods, 351-353
  - Document Workspace
    - data, retrieving, 244-246
    - folders, 248
    - metadata, retrieving, 246-247
  - Excel Services, 325
    - hello world example, 326-328
    - methods, 325-326
    - multiple named ranges client application example, 328-329
    - reading/writing ranges and saving temporary workbooks applications, 329-332
    - trusted locations, configuring, 326
  - Imaging, 256-257, 266-272
  - Lists, 273
    - creating list items, 281-282
    - deleting list items, 281-282
    - filtering, 287-288
    - querying hierarchical list items, 283-285
    - retrieving lists/list items, 275-277
    - revision control, 286
    - updating, 278-282
  - Official File
    - querying, 374-375
    - record repositories, creating, 375-376
    - Records Center, 370
  - Spell Checker, 377-379
  - User Group
    - methods, 315-316
    - WPF data binding, 316-318
  - User Profile
    - methods, 308-309
    - user profile properties, retrieving, 310-311



- User Profile Web Change, 312-314
- Versions, 383-384
- Views, 288-289
- Web Part Pages
  - adding Web Parts, 339-341
  - methods, 337-339
  - querying, 344-345
  - Safe Assemblies, 345
  - updating Web Parts, 342-343
- Workflow
  - methods, 360
  - starting workflows, 367
  - tasks, 362-367
  - templates, retrieving, 366-367
  - workflow data, retrieving, 361-362
- Visual C# 2005 Express Edition
  - download, 18
- web template IDs, 40-41**
- WebApplication property (SPSite class), 22, 38**
- WebBrowsable attribute, 194**
- WebControl class, 166**
- WebDescription attribute, 194**
- WebDisplayName attribute, 194**
- WebFullUrl column (lists), 275**
- WebId column (lists), 275**
- WebId property (SPListEventProperties class), 71**
- WebImageHeight column (lists), 274**
- WebImageWidth column (lists), 274**
- WebPart class (SharePoint versus ASPNET), 185**
- WebPartConnection Collection Editor, 223**
- WebPartManager class**
  - static connection properties, 224
  - Web Parts, connecting, 223
- WebPartManager control, 173-176**
- WebPartZone class, 185**
- WebPartZone control, 173**
- webs**
  - creating, 44-45
  - information, accessing, 45
  - SPWeb class, 42-43
  - updating, 46
- Webs property (SPWeb class), 43**
- websites**
  - AdventureWorks SQL database, 113
  - hierarchy, 36
  - Sharepoint 2007 SDK, 148
  - SmartPart, 183
  - U2U CAML Query Builder download, 11
  - Visual Studio 2005 Extensions for Windows
    - Workflow Foundation template, 148
- WebUrl property**
  - SPLItemEventProperties class, 74
  - SPListEventProperties class, 71
- WelcomePage property (SPFolder class), 86**
- WF (Windows Workflow Foundation), 147, 359**
  - templates, installing, 147-148
  - Workflow Web Service
    - methods, 360
    - tasks, 365-367
    - templates, retrieving, 366-367
    - workflow data, retrieving, 361-362
    - workflows, starting, 367
- wildcard Finders, 130-131**
- Windows Forms applications**
  - DocLibPicker.cs, 89-90
  - Feature Enumerator, 29
  - Form1.cs, 86-88
- Windows Presentation Foundation (WPF), 316**
- Windows SharePoint Services (WSS), 15**
- Windows Workflow Foundation. See WF**
- WindowsCredentials authentication mode (BDC), 111**
- WinForms applications**
  - creating, 21-22
  - deploying, 22-23
- workbooks (Excel). See also Excel Services**
  - application logic, 322
  - business intelligence, 322
  - hello world example, 326-328
  - managing, 322
  - multiple named ranges client application
    - example, 328-329
  - reading/writing ranges and saving temporary
    - workbooks application, 329-332
- Workflow Web Service**
  - methods, 360
  - tasks
    - claiming, 366
    - data, retrieving, 367
    - modifying, 365-366
    - releasing, 366
    - retrieving, 362-365
    - templates, retrieving, 366-367
    - workflows
      - data, retrieving, 361-362
      - starting, 367
- workflow.xml file, 157**
- WorkflowAssociations property (SPList class), 50**
- WorkflowId column (lists), 275**
- WorkflowManager property (SPSite class), 38**

**workflows**

- approval, 148
  - associations, 150
  - batch file for installation file, 158-159
  - building, 150
  - coding, 155-156
  - data, retrieving, 361-362
  - deploying, 156-159
  - feature.xml file, 156-157
  - forms, designing, 151-153
  - HelloWorldSequentialWorkflow Assembly
    - features.xml file, 156-157
    - install.bat file, 158-159
    - workflow designer, 155
    - workflow.xml file, 157
  - instances, 150
  - modeling, 153-155
  - starting, 367
  - submitting files to records repositories, 373
  - support, 153
  - tasks
    - claiming, 366
    - data, retrieving, 367
    - modifying, 365-366
    - releasing, 366
    - retrieving, 362-365
  - templates, 149, 366-367
  - Web Service, 360
  - workflow.xml file, 157
- Workflows property (SPListItem class), 51**
- WorkflowTemplates property (SPWeb class), 43**
- workspaces**
- Document
    - creating, 242-244
    - data, retrieving, 244-246
    - deleting, 243-244
    - document ID storage, 251-252
    - folders, 248

- metadata, retrieving, 246-247
  - overview, 241
  - URLs, validating, 242
  - users, managing, 253
- Meeting, 291**
- attendee responses, 105
  - available, listing, 293-294
  - calendar events, linking, 105
  - creating, 97-98, 295-296
  - creating meetings, 102-104, 298-299
  - deleting, 296-297
  - deleting meetings, 104, 300-301
  - details, modifying, 297
  - lists, 100, 304
  - meeting attendance, 302-303
  - Meeting Series list, 100-101
  - modifying meetings, 104
  - restoring meetings, 302
  - sites, creating, 292
  - templates, 295
  - updating meetings, 301
- WPF (Windows Presentation Foundation), 316**
- WriteLocked property (SPSite class), 38**
- WriteRssFeed method (SPList class), 55**
- WriteSecurity column (lists), 274**
- WSS (Windows SharePoint Services), 15**

**X-Z**

- XML data, 260-261**
- Xml property (SPListItem class), 51**
- Zone property**
  - SPItemEventProperties class, 74
  - SPSite class, 38
- zones (Web Parts), 178**