Index

Symbols 1-tier 1-layer architecture 35-37 1-tier 3-layer architecture, domain model	architecture and design, ASP.NET about 12-14 example 15 relating 8-11
used about 66 business layer (BL), creating 69-71 data access layer (DAL), creating 67-69 UI layer, creating 71 4-tier approach 85, 86 5-tier architecture 5Tier Business 91 5Tier Common 91 BL, referencing DAL 90 business objects, updating 102 custom collections 105, 107 DAL, referencing BL 90 data transfer objects (DTOs) 89-93 example, data transfer objects (DTOs) used 92-94 generics 105-107 GUI tier 103, 104 lazy loading 94-101 sample 88, 89	technology and art 14 ASMX web services about 180 web reference, adding 173-177 ASP.NET 1-tier 1-layer architecture 35-37 architecture and design 12-14 design patterns 16 page controller pattern 109 page controller pattern, working 110 globalization implementing, steps 214, 215 resource-provider-model 232 website, globalizing 214, 215 ASP.NET MVC framework controller 122 controller, wiring 124 model 123, 124 unit testing 128 URL routing engine 120-122 view 123
A	В
application granularity, measuring 161 size 160 API 83 Application Programming Interface. See API architectural styles 12	big applications versus small applications 160, 161 browser settings 213, 214 Business Layer. See BL BL 24, 25 Business Logic Layer. See BLL BLL 24, 25

С	configuration settings, implementing 149, 150
coarse grained model 163	custom algorithm, implementing 150, 151
classic ASP style, inline coding	factory class, creating 148, 149
about 33, 34	implementation, creating 147
sample project 35-37	interface, creating 146, 147
code-behind model, second UI layer	DI. See dependency injection, sample
coding, limitations in UI layer 41	design patterns
command design pattern	about 16, 132
about 151	behavioral pattern 133
command factory, creating 155, 156	categories 132
command interface, creating 152	command design pattern 151
GUI, decoupling with 151, 152	creational pattern 132
value objects, creating 153-155	dependency injection 145, 146
_	factory design pattern 137, 138
D	Gang of Four 132
Deta Assess Lawren Co. DAI	history 132
Data Access Layer. See DAL	merging, GUI used 156
DAL 24, 25	singleton pattern 133, 134
Data Layer. See DL	structural pattern 132
Data Transfer Objects See DTOs 89	DL 24, 25
database	domain model, creating 191
about 187	domain model, UML used
architecture and design 189	about 57
database plan, creating 189, 190 RDBMS 187	class diagram 58
	UML relationships 59
selecting 187-189 database architecture and design	-
about 189	E
database plan, creating 189, 190	Entitiy-Relationship diagram.
domain model versus logical data model	See ER diagram
194	ER diagram
logical design 190, 191	for order management system (OMS) 50-52
logical model, example 191, 192	relationship, cardinality 52
logical model, need 192	relationship, cardinality adding 53
data modeling, MS Visio used	relationship, degree 52
about 198-202	
physical tables, creating 203-206	F
relationships, creating 206-209	
data source controls	factory design pattern
about 42	about 137
sample project 42-44	need for 143-145
using in web projects, advantages 46	programming, to interface 139-141
using in web projects, disadvantages 47	relating, in object model 138
dependency injection, sample	front controller design 131
about 145, 146	