requirements 21–38, 78, 343	operation 166–70
elicitation 22–31, 343	see also requirements specification
engineering 22–34, 343	spiral model 5
list see problems and requirements list	SQL (Structured Query Language) 229
specification 22, 31–3, 344	state 182–3, 196, 345
stage in traditional life cycle 6	nested 193–4
validation 22, 34, 344	of object 82
Wheels system 35–6	state diagram 15, 189–97, 345
responsibility 149-55, 344	constructing 185–9, 196–7
Responsibility Driven Design 10, 148	in system development 192
return (value), 344	symbols in 183–4
reuse 10, 78, 93, 95, 106-7, 242, 344	transition in 183, 345
reverse engineer 344	static method 346
role	stereotype 346
in class diagram 90	class 252
	in use case diagram 59–60
	storage layer (architecture) 228–9
scenario 344	structured English 168–9, 346
and interaction diagrams 155–6	subclass 93, 94, 95, 97, 99, 109, 346
and use cases 42-5	substitutability
'happy day' 171	in inheritance hierarchy 99, 101–3
in requirements elicitation 31	subsystem 60, 76, 346
scope 123	•
in problem definition 32	superclass 93, 95, 99, 346
seamless development process 9, 286	superstate 188, 346
self-referencing 344	swimlane 207–9, 346 synchronisation bar (activity
sequence diagram 156–162, 164, 259,	diagram) 203, 346
277–285, 344, see also interaction	synchronous message 260-1, 346
diagram	system 346
service 84, 345	-
set method 100, 345	architecture 138, 233 development method 10
signature of operation 84, 167, 345	life cycle 4–5
simulation 345	
single-threaded 260, 345	system life cycle see life cycle
software architecture (layering) 223,	
227–9, 244	table (valetienal detabase)
software construct	table (relational database) 237, 347
essential characteristics 78–9	testing 54, 77–8, 79
software platform, 345	Together TM 17
software reuse see reuse	traceability 10, 80, 347
specialization	transient object 257, 347
in class diagram 92-5	transition
in use case diagram 56	in state diagram 183
specification 345	stage in object-oriented life cycle
by contract 167–8, 345	see also state transition