

# Index

## Symbols

- + (plus sign), 206
- (minus sign), 206

## A

- abstract use cases, 62
- abstractions levels, mixing, 407-410
- Access Control blueprints, 271, 275-277, 417
  - analysis models, 284-285
  - dynamic security units, 272, 276
  - embedded check, 272, 276
  - examples, 277-284
  - explicit check, 273
  - implicit details, 274
  - internal assignment, 274, 277
  - Internet bank systems, 21-22
- actor diagrams, 116
- actors, 31, 47-48, 95
  - association, 52
  - business roles, 49-50, 97
  - child, 96
  - generalization, 96-97
  - names, 48
  - overlapping roles, 95, 97
  - parents, 96
  - primary actors, 48-49
  - secondary actors, 48-49
  - security levels, 51, 415-417
- addition
  - commonality patterns, 142
  - to existing use cases, sub-sequences, 146-147
  - Layered System patterns, 207
  - Optional Services patterns, 236
- Alexander, Christopher, xvi
- alternative flow, 43
  - Access Control blueprints, 280-284
  - Future Task blueprints, 298-299
  - Item Look-Up blueprints, 309-311
  - Large Use Case patterns, 203
  - Layered System patterns, 217, 219
  - Legacy System blueprints, 320-321
  - Login and Logout blueprints, 333, 336
  - Message Transfer blueprints, Create Order, 345

- modeling as extensions, 385-387
- Multiple Actors patterns, 230-231
- Optional Services patterns, 242
- Report Generation blueprints, 363-366
- Translator blueprints, Compile Source Code, 380
  - use-case descriptions, 111
  - Use-Case Sequence patterns, 265
- Amplify Input Stream (Stream Input blueprints), 373-374
- analog (Stream Input blueprints), 370-373
- analysis classes, 121-122
- analysis models, 120
  - Access Control blueprints, 284-285
  - business rules, 139-140
  - CRUD patterns, 196
  - Future Task blueprints, 300-302
  - Item Look-Up blueprints, 311-312
  - Layered System patterns, 219-222
  - Legacy System blueprints, 322
  - Login and Logout blueprints, 337-338
  - Message Transfer, 349-350
  - Multiple Actors patterns, 232
  - Optional Services patterns, 244-245
  - Orthogonal Views patterns, 255
  - Passive External Medium blueprints, 356
  - Report Generation blueprints, 366-368
  - Stream Input blueprints, 374
  - Translator blueprints, 381-382
  - Use-Case Sequence patterns, 266
- applications, Internet bank systems. *See* Internet bank systems
- association, 52
- ATM systems, 36
  - use-case models, 32

## B

- banks. *See* Internet bank systems
- base use cases, 61, 67
- basic flow, 43-45
  - Access Control blueprints, 279-283
  - Future Task blueprints, 296-299
  - Item Look-Up blueprints, 309-310
  - Large Use Case patterns, 200, 202

- Layered System patterns, 217-218
- Legacy System blueprints, 319-321
- Login and Logout blueprints, 333-335
- Message Transfer blueprints, 345-348
- Multiple Actors patterns, 229-230
- Optional Services patterns, 242
- Order Ticket, Login and Logout blueprints, 334
- Orthogonal Views patterns, 253-254
- Passive External Medium blueprints, 354-355
- Report Generation blueprints, 363-365
- Stream Input blueprints, Amplify Input Stream, 373
- Translator blueprints, Compile Source Code, 379
- use-case descriptions, 110
- Use-Case Sequence patterns, 263-266
- behavior, multiple fragments of additional behavior, 83, 85
- black-box components, 160-162
  - specified with operations, 162-163
  - specified with use cases, 163-165
- black-box views, 38
- black-box with operations (component hierarchy patterns), 157
- black-box with use cases (component hierarchy patterns), 156-157
- blueprints, xv, 4
  - Access Control, 271-277, 417
    - analysis models, 284-285
    - examples, 277-284
    - Internet bank systems, 21-22
  - Future Task, 287-295
    - analysis model, 300-302
    - examples, 295-300
    - Internet bank systems, 18-19
    - performer notification, 290, 293, 301
  - Item Look-Up, 303-307
    - analysis models, 311-312
    - examples, 308-311
  - Legacy System, 313-318
    - analysis models, 322
    - examples, 318-321
    - Internet bank systems, 16-17
  - Login and Logout, 323-327
    - addition to normal login procedures, 328-329
    - analysis models, 337-338
    - examples, 331-337
    - independent use cases, 327-328
    - Internet bank systems, 15
    - login use cases, 330
    - logout, 331
    - managing user information, 331
    - verification before usage, 329-330
  - Message Transfer, 339-342
    - analysis models, 349-350
    - examples, 344-348
  - Passive External Medium, 351-353
    - analysis models, 356
    - examples, 353-355

- Report Generation, 357-362
  - analysis models, 366-368
  - examples, 362-366
- Stream Input, 369-373
  - analysis models, 374
  - examples, 373-374
- Translator, 375-378
  - analysis models, 381-382
  - examples, 379-380
- boundary classes, 122
- Brief Description (use-case descriptions), 109
- business roles, actors, 49-50, 97
- business rules, 107, 131, 133-134
  - analysis models, 139-140
  - example of use cases containing business rules, 136-139
  - patterns, 132
  - use cases, 134-135
- business rules documents, 117
- Business Rules patterns, 135
  - Dynamic Modification, 139
  - Internet bank systems, 22-23
- business use cases, 52
  - mistakes when using, 389-393
- business value
  - mistakes, 411-413
  - of use cases, 36

## C

- Change Service (Internet bank systems), 14
- characteristics of extend relationships, 73
- Charging, 71, 83
- Check Access Rights (Access Control blueprints), 282
- Check For Messages, 334
- Check Item, 172
- Check Spelling (Orthogonal Views patterns), 254-255
- child actors, 96
- child use cases, 91
- class modeling, 119
- classes
  - analysis classes, 121-122
  - boundary classes, 122
  - classification of, 123
  - control classes, 122
  - entity classes, 122
- classifying
  - classes, 123
  - use cases, 37-38
- collaboration diagrams, 124
- common mistakes, 5
- common part-flow, 59
- common roles, 96
- commonality
  - extend relationships, 153
  - generalization, 153
  - include relationships, 152
  - modeling sub-sequence of actions, 144
  - similar use cases, 147
  - sub-sequences, 145-148

commonality patterns  
 addition, 142  
 internal reuse, 144  
 reuse, 142  
 specialization, 143, 148  
 communicating use cases, mistakes, 395-397  
 communication diagrams, 124  
 Compile Source Code (Translator blueprints), 379-380  
 component hierarchy patterns, 155, 159-160  
 black-box components, 160-165  
 black-box with operations, 157  
 black-box with use cases, 156-157, 168  
 common mistakes, 167-168  
 examples, 168  
 white-box components, 158, 166  
 components, 159  
 Concrete Extension or Inclusion patterns, 175-181  
 examples, 182-187  
 extensions, 176  
 inclusion, 177  
 concrete use cases, 62  
 conditional extensions, extend relationships, 75-76  
 control classes, 122  
 course, xxiii  
 Create Order, 170-171  
 Message Transfer blueprints, 344-346  
 Optional Services patterns, 242-243  
 CRUD patterns, 191-193  
 analysis models, 196  
 complete, 190  
 examples, 193-194, 196  
 Internet bank systems, 20-21  
 partial, 191  
 CRUD Task use case, 194, 196  
 Customer Login (Internet bank systems), 14

**D**

Deliver Message (Message Transfer blueprints), 348  
 dependency  
 extend relationships, 68, 78  
 on inclusion use cases, 65-66  
 Deposit Money (Layered System patterns), 217  
 description techniques, 99  
 descriptions. *See* use-case descriptions  
 descripts, reviewing, 105  
 design models, 120  
 diagrams  
 actor diagrams, 116  
 collaboration diagrams, 124  
 communication diagrams, 124  
 global diagrams, 116  
 local diagrams, 116  
 overview diagrams, 116  
 sequence diagrams, 52, 124  
 state-machine diagrams, 261  
 use-case diagrams, 115-117  
 discrete values (Stream Input blueprints), 371-372  
 documentation  
 extend relationships, 77-78  
 generalization between use cases, 93-94

of include relationships, 64-65  
 use cases, 99-102, 105  
 use-case descriptions. *See* use-case descriptions  
 use-case models, 113-117  
 domain models, 117  
 dynamic security units (Access Control blueprints), 272

**E**

embedded check (Access Control blueprints), 272  
 embedded Layered System patterns, 208-209  
 embedded Legacy System blueprints, 314  
 entity classes, 122  
 Evaluate and Apply Rules (Orthogonal Views patterns), 253-254  
 examples  
 Access Control blueprints, 277-284  
 Commonality: Specialization pattern, 148  
 Component Hierarchy: Black-Box with Use Cases pattern, 168  
 Concrete Extension or Inclusion patterns, 182-187  
 CRUD patterns, 193-194, 196  
 Future Task blueprints, 295-300  
 Item Look-Up blueprints, 308-311  
 Large Use Case patterns, 202-204  
 Layered System patterns, 216-219  
 Legacy System blueprints, 318-321  
 Login and Logout blueprints, 331-337  
 Message Transfer: Automatic, 344-348  
 Multiple Actors patterns, 229-232  
 Optional Services patterns, 241-243  
 Orthogonal Views patterns, 252-255  
 Passive External Medium blueprints, 353-355  
 Report Generation blueprints, 362-366  
 Stream Input blueprints, 373-374  
 Translator blueprints, 379-380  
 use cases containing business rules, 136-139  
 Use-Case Sequence patterns, 262-266  
 exceptional flow, 43, 111  
 experience, reusing, 3, 5  
 explicit check (Access Control blueprints), 273  
 extend commonality patterns, 153  
 extend lower-layer use cases, 212-213, 221-222  
 extend relationships, xxiii, 67-72  
 characteristics of, 73  
 conditional extensions, 75-76  
 dependency, 68, 78  
 documentation, 77-78  
 extension points, 73-75, 87-89  
 flow, 69  
 multiple extend relationships versus complex extension points, 89  
 multiple fragments, 83, 85  
 multiple insertions, 85-86  
 optional services, 70, 245  
 versus include relationships, 79-81

extension points, 73-75, 78  
 extend relationships, 87-89  
   location, 87-88  
   use-case descriptions, 110  
   versus multiple extend relationships, 89  
 extension use cases, 67  
 extensions  
   Concrete Extension or Inclusion patterns, 176  
   modeling alternative flow as, 385-387  
 extracting parts of use cases, 178

## F

flow  
   alternative flow. *See* alternative flow  
   basic flow. *See* basic flow  
   common part-flow, 59  
   exceptional flow, 43, 111  
   extend relationships, 69  
 fragments, multiple fragments (extend relationships), 83, 85  
 Functional Decomposition, mistakes using, 399-401  
 Future Task blueprints, 287, 290-295  
   analysis model, 300-302  
   examples, 295-300  
   extraction, 289  
   Internet bank systems, 18-19  
   performer notification, 290, 293, 301  
   simple, 288, 292  
   specialization, 288, 294

## G-H

generalization  
   actors, 96-97  
   between use cases, 91-94  
   commonality patterns, 153  
   Layered System patterns, 215  
 generalization relationship, xxv  
 Generate Invoicing Basis, 151-152  
   Future Task blueprints, 299-300  
 Generate Order Report (Report Generation blueprints), 365-366  
 Generate Pick List, 150-151  
 Generate Report (Report Generation blueprints), 362-364  
 global diagrams, 116  
 glossaries, 108, 117  
 gray-box view of systems (use cases), 38-39  
 history of use cases, xxiii-xxiv

## I-J

implicit details (Access Control blueprints), 274  
 include commonality patterns, 152  
 include lower-layer use cases, 211-212, 220  
 include relationship, 59, 61-63  
   documentation, 64-65  
   versus extend relationships, 79-81  
 inclusion (Concrete Extension or Inclusion patterns), 177  
 inclusion use cases, 61, 65-66  
 independence, sub-sequences, 145-146

independent (Optional Services patterns), 237-238  
 independent use cases (Login and Logout blueprints), 327-328  
 inheritance, 91-92  
   actors, 96  
 insertions, multiple insertions (extend relationships), 85-86  
 instances  
   analysis classes, 121  
   of use cases, 40-42, 61, 69  
 interaction between use cases and actors, 52  
 internal assignment (Access Control blueprints), 274  
 internal reuse (commonality patterns), 144  
 Internet bank systems, 12-13, 259  
   Access Control blueprints, 21-22  
   Business Rules patterns, 22-23  
   complete model, 24-26  
   CRUD patterns, 20-21  
   first draft of model, 13-14  
   Future Task blueprints, 18-19  
   Legacy System blueprints, 16-17  
   login and logout blueprints, 15  
   Multiple Actors patterns, 17-18  
   use cases, 14, 26  
   Use-Case Sequence pattern, 16  
 Item Look-Up blueprints, 303, 306-307  
   analysis models, 311-312  
   examples, 308-311  
   open decision, 305  
   result usage, 304, 306  
   standalone, 304, 306

Jacobson, Ivar, xxiii

## K-L

Large Use Case patterns, 197, 199-201  
   alternative flow, 203  
   basic flow, 200, 202  
   examples, 202-204  
   Long Sequence, 198  
   multiple paths, 198-199  
 Layered System patterns, 205-211  
   access of lower-layer information, 211, 219  
   addition, 207  
   analysis models, 219-222  
   embedded, 208-209  
   examples, 216-219  
   extend lower-layer use cases, 212-213, 221-222  
   generalization, 215  
   include lower-layer use cases, 211-212, 220  
   relationships, 214-215  
   reuse, 206-207  
   specialization, 208, 222  
 Legacy System blueprints, 313, 315-318  
   analysis models, 322  
   embedded, 314, 316  
   examples, 318-321  
   Internet bank systems, 16-17  
   separate, 314, 316  
 legacy systems, 315

Local Call use case, 70, 227  
 Multiple Actors patterns, 229-230  
 local diagrams, 116  
 location, extension points, 87-88  
 Log Action, 86  
 Log Delayed Transaction, 88  
 Login and Logout blueprints, 323, 327  
 action addition, 324  
 addition to normal login procedures, 328-329  
 analysis models, 337-338  
 examples, 331-337  
 independent use cases, 327-328  
 Internet bank systems, 15  
 login use cases, 330  
 logout, 331  
 managing user information, 331  
 reuse, 325  
 separate, 326  
 specialization, 326  
 standalone, 324  
 verification before usage, 329-330  
 Login/Logout, 332-333  
 Message Transfer blueprints, 347-348  
 logout (Login and Logout blueprints), 331  
 Long Sequence (Large Use Case patterns), 198  
 Look-Up Flight, 183-184  
 Item Look-Up blueprints, 309  
 Look-Up Item, 311  
 loops (use case descriptions), 108  
 lower-layer information, accessing, 211, 219

## M

Manage Access Rights of a Form (Access Control blueprints), 280-281  
 Manage Form (Access Control blueprints), 279-280  
 Manage Report Template (Report Generation blueprints), 364-365  
 Manage Task (Future Task blueprints), 296-297  
 Manage User Information, 335-337  
 managing user information (Login and Logout blueprints), 331  
 merge use cases, 397  
 Message Transfer blueprints, 339, 342  
 analysis models, 349-350  
 automatic, 341-348  
 deferred delivery, 340, 342  
 immediate delivery, 340  
 micro use cases, mistakes, 403-405  
 minus sign (-), 206  
 mistakes  
 alternative flow as extension, 385-388  
 business use cases, 389-393  
 business values, 411-413  
 common mistakes, 5  
 communicating use cases, 395-397  
 component hierarchy patterns, 167-168  
 Functional Decomposition, 399-401  
 micro use cases, 403-405  
 mixing abstraction levels, 407-410  
 modeling alternative flow as extensions, 385-387  
 security levels and actors, 415-417

mixing abstraction levels, 407-410  
 modeling  
 class modeling, 119  
 sub-sequence of actions, 144  
 models  
 analysis models, 120, 139-140  
 design models, 120  
 domain models, 117  
 use case models. *See* use case models  
 Multiple Actors patterns, 225-228  
 analysis model, 232  
 common roles, 226  
 distinct roles, 226  
 examples, 229-232  
 Internet bank systems, 17-18  
 multiple business values, 411-413  
 multiple classification of use-case instance, 41  
 multiple extend relationships versus complex extension points, 89  
 multiple fragments (extend relationships), 83-85  
 multiple insertions (extend relationships), 85-86  
 multiple paths (Large Use Case patterns), 198-199

## N-O

names  
 of actors, 48  
 use cases, 37  
 Notify Advisor of Large Balance (Layered System patterns), 218-219  
 non-functional requirements, 107, 117  
 objects (analysis classes), 121  
 optional services (extend relationships), 70  
 Optional Services patterns, 235, 238-241  
 addition, 236  
 analysis model, 244-245  
 examples, 241-243  
 independent, 237-238  
 specialization, 237  
 optional use cases, 38  
 Order Item, 75  
 Order Ticket, 103, 184-186, 228, 334  
 Item Look-Up blueprints, 310-311  
 Multiple Actors patterns, 230-232  
 Orthogonal Views patterns, 247, 249-252  
 analysis models, 255  
 description, 248-249  
 examples, 252-255  
 specialization, 248  
 overlapping roles of actors, 95, 97  
 overview diagrams, 116

## P

parent actors, 96  
 parent use cases, 91  
 Passive External Medium blueprints, 351-353  
 analysis models, 356  
 examples, 353-355

- patterns, xvi, 4
    - business rules, 132, 135
      - Dynamic Modification, 139
      - Internet bank systems, 22-23
    - commonality
      - addition, 142
      - internal reuse, 144
      - reuse, 142
      - specialization, 143, 148
    - component hierarchy, 155, 159-160
      - black-box components, 160-162
      - black-box components specified with operations, 162-163
      - black-box components specified with use cases, 163-165
      - black-box with operations, 157
      - black-box with use cases, 156-157, 168
      - common mistakes, 167-168
      - white-box, 158, 166
    - Concrete Extension or Inclusion, 175-187
    - CRUD, 191-193
      - analysis models, 196
      - examples, 193-196
      - Internet bank systems, 20-21
    - Large Use Case, 197-201
      - alternative flow, 203
      - basic flow, 200, 202
      - examples, 202-204
    - Layered System, 205-211
      - access of lower-layer information, 211, 219
      - examples, 216-219
      - extend lower-layer use cases, 212-213, 221-222
      - generalization, 215
      - include lower-layer use cases, 211-212, 220
      - relationships, 214-215
      - specialization, 208, 222
    - Multiple Actors, 225-228
      - analysis model, 232
      - examples, 229-232
      - Internet bank systems, 17-18
    - Optional Services, 235-241
      - analysis model, 244-245
      - examples, 241-243
    - Orthogonal Views, 247-252
      - analysis models, 255
      - examples, 252-255
    - Smorgasbord, 262
    - Use-Case Sequence, 257-261
      - analysis models, 266
      - examples, 262-266
      - Internet bank systems, 16
  - pauses in use cases, 392
  - Pay Bills
    - Internet bank systems, 14
    - Use-Case Sequence patterns, 264-265
  - Perform Task, 149-150, 289
    - Future Task blueprints, 298-299
  - performer notification (Future Task blueprints), 290
  - plus sign (+), 206
  - ports, 162
  - postconditions, 111
  - preconditions, 111, 260
  - Present Account Transactions, 260
    - Internet bank systems, 14
    - Use-Case Sequence patterns, 265-266
  - Present Accounts
    - Internet bank systems, 14
    - Use-Case Sequence patterns, 264
  - Present Event Information (Access Control blueprints), 282-283
  - Present Help, 186-187
  - Present Navigation Page (Use-Case Sequence patterns), 263
  - primary actors, 48-49
  - primary use cases, 37
- Q-R**
- realization, use-case realization, 123-126
  - Receiver, 350
  - Reduce Number of Available Items, 172-173
  - Register Event (Layered System patterns), 218
  - Register Insurance Tender, 202-204
  - Register Order, 169-170, 319
  - Register Order (version 1), Legacy System
    - blueprints, 319-320
  - Register Order (version 2), Legacy System
    - blueprints, 321
  - Register to an Event (Access Control blueprints), 283-284
  - relationships
    - association, 52
    - extend relationships. *See* extend relationships
    - generalization, xxv, 153
    - include, 59, 61-63
      - commonality patterns, 152
      - documentation, 64-65
      - versus extend relationships, 79-81
    - Layered System patterns, 214-215
    - use-case descriptions, 109
  - replaceable components (black-box components), 160-162
  - Report Generation blueprints, 357-362
    - analysis models, 366-368
    - dynamic templates, 359
    - examples, 362
      - Generate Order Report, 365-366
      - Generate Report, 362-364
      - Manage Report Template, 364-365
    - simple, 358
    - specialization, 358
  - Restock Item, 75
    - Message Transfer blueprints, 346
    - Optional Services patterns, 243
  - result usage (Item Look-Up blueprints), 304
  - reuse
    - commonality patterns, 142
    - experience, 3, 5
    - Layered System patterns, 206-207
    - Login and Logout blueprints, 325



reviewing use case descriptions, 105  
 robustness analysis, 120  
 rules. *See* business rules  
 Run the Heater at Full Power (Passive External  
 Medium blueprints), 355

## S

scenarios, 40  
 secondary actors, 48-49  
 secondary use cases, 37  
 sections of use-case descriptions, 109-111  
 security levels and actors, 51, 415-417  
 separate Login and Logout blueprints, 326  
 sequence diagrams, 52, 124  
 similar use cases, 147  
 Smorgasbord, 262  
 Special Requirements (use-case descriptions), 111  
 specialization  
   commonality patterns, 143  
   Future Task blueprints, 288, 294  
   Future Task extraction, 289  
   Layered System patterns, 208, 222  
   Login and Logout blueprints, 326  
   Optional Services patterns, 237  
   Orthogonal Views patterns, 248  
   Report Generation blueprints, 358  
 spell checking (Optional Services patterns), 240  
 stakeholders, 36  
 standalone Item Look-Up blueprints, 304  
 state machines, 260  
 state-machine diagrams, 261  
 stereotypes, 123  
 Stream Input blueprints, 369, 371  
   analog, 370, 372-373  
   analysis models, 374  
   discrete, 370  
   discrete values, 371-372  
   examples, 373-374  
 structuring use-case models, 55-58  
 styles guides for use-case descriptions, 106-109  
 sub-sequences  
   of actions, modeling, 144  
   additions to existing use cases, 146-147  
   independent of context, 145-146  
   single use cases, 148  
 subflow, common part-flow, 59  
 subsystems. *See* components  
 surveillance systems, 36  
 systems, warehouse systems, 60, 68

## T

Task Definer, 291, 297  
 Task Initiator, 290, 293  
 Task Performer, 300  
 telephone exchange systems, 32  
 Template, 366  
 text editors, 249  
 Transfer Money (Internet bank systems), 14  
 Translate Stream, 378, 382

Translator blueprints, 375, 377-378, 382  
   analysis models, 381-382  
   dynamic rules, 376  
   examples, 379-380  
   static definition, 376  
 Turn the Heater On or Off (Passive External  
 Medium blueprints), 354-355

## U

use case descriptions, reviewing, 105  
 use case diagrams, 116  
 use case models, 43-45  
 use cases, 31, 33, 35  
   abstract use cases, 62  
   Amplify Input Stream (Stream Input  
   blueprints), 373-374  
   base use cases, 61, 67  
   black-box components, 163-165  
   black-box views, 38  
   black-box with operations (component  
   hierarchy patterns), 157  
   black-box with use cases (component  
   hierarchy patterns), 156-157  
   business rules, 134-139  
   business use case, 52, 389-393  
   business value of, 36  
   Change Service (Internet bank systems), 14  
   Charging, 71, 83  
   Check Access Rights (Access Control  
   blueprints), 282  
   Check For Messages (Login and Logout  
   blueprints), 334  
   Check Item, 172  
   child, 91  
   classifying, 37-38  
   communicating use cases, mistakes, 395-397  
   Compile Source code (Translator  
   blueprints), 379-380  
   concrete use cases, 62  
   Create Order, 170-171  
     Message Transfer blueprints, 344-346  
     Optional Services patterns, 242-243  
   Create Order for Shipping, 136-138  
   CRUD Task, 194, 196  
   Customer Login (Internet bank systems), 14  
   Deliver Message (Message Transfer  
   blueprints), 348  
   Deposit Money, 217  
   documentation, 99-102, 105  
   Evaluate and Apply Rules (Orthogonal  
   Views patterns), 253-254  
   extend lower-layer use cases, 212-213,  
     221-222  
   extension use cases, 67  
   extracting parts of, 178  
   generalization between use cases, 91-92  
   Generate Invoicing Basis, 151-152, 299-300  
   Generate Order Report (Report  
   Generation blueprints), 365-366  
   Generate Pick List, 150-151  
   Generate Report (Report Generation  
   blueprints), 362-364

- gray-box view of systems, 38-39
  - history of, xxiii-xxiv
  - include lower-layer use cases, 211-212, 220
  - inclusion use cases, 61, 65-66
  - instances, 40-42, 61, 69
  - Internet bank systems, 14, 26
  - introduction to, 31-34
  - Local Call, 70, 227, 229-230
  - Log Action, 86
  - Log Delayed Transaction, 88
  - Login/Logout, 332-333, 347-348
  - Look-Up Flight, 183-184, 309
  - Look-Up Item, 311
  - Manage Access Rights of a Form (Access Control blueprints), 280-281
  - Manage Form (Access Control blueprints), 279-280
  - Manage Report Template (Report Generation blueprints), 364-365
  - Manage Task (Future Task blueprints), 296-297
  - Manage User Information (Login and Logout blueprints), 335-337
  - merge use cases, 397
  - micro use cases, mistakes, 403-405
  - names, 37
  - Notify Advisor of Large Balance, 218-219
  - optional use cases, 38
  - Order item, 75
  - Order Ticket, 103, 184-186, 228-232, 310-311, 334
  - parents, 91
  - pauses in, 392
  - Pay Bills, 14, 264-265
  - Perform Task, 149-150, 298-299
  - Present Account Transactions, 14, 260, 265-266
  - Present Accounts, 14, 264
  - Present Event Information (Access Control blueprints), 282-283
  - Present Help, 186-187
  - Present Navigation Page, 263
  - primary use cases, 37
  - Reduce Number of Available Items, 172-173
  - Register Event, 218
  - Register Insurance Tender, 202-204
  - Register Order, 169-170
  - Register Order (version 1), Legacy System blueprints, 319-320
  - Register Order (version 2), Legacy System blueprints, 321
  - Register to an Event (Access Control blueprints), 283-284
  - Restock Item, 75
    - Message Transfer blueprints, 346
    - Optional Services patterns, 243
  - Run the Heater at Full Power (Passive External Medium blueprints), 355
  - scenarios, 40
  - secondary use cases, 37
  - similar use cases, 147
  - single use cases, 148
  - Transfer Money (Internet bank systems), 14
  - Translate Stream, 378, 382
  - Turn the Heater On or Off (Passive External Medium blueprints), 354-355
  - white-box (component hierarchy patterns), 158
  - white-box views, 39
  - Withdraw Money, 86
  - use Check Spelling (Orthogonal Views patterns), 254-255
  - use-case blueprints. *See* blueprints
  - Use-Case Description documents, 99
  - use-case descriptions, 102
    - glossaries, 108
    - loops, 108
    - Orthogonal Views patterns, 248-249
    - sections of, 109-111
    - writing (style guides), 106-109
  - use-case diagrams, 115-117
  - Use-Case Model Survey, 113-115
  - use-case models, 3, 31, 33
    - ATM systems, 32, 36
    - documentation, 113
      - business rules documents, 117
      - diagrams, 115-117
      - glossaries, 117
      - Use-Case Model Survey, 113-115
    - structuring, 55-56, 58
    - surveillance systems, 36
    - telephone exchange systems, 32
  - use-case patterns, xiv, 4
  - use-case realization, 123-126
  - Use-Case Sequence pattern, 257-261
    - analysis models, 266
    - examples, 262-266
    - Internet bank systems, 16
- V-Z**
- value, business value of use cases, 36
  - verification (Login and Logout blueprints), 329-330
  - VoPO (View of Participating Objects), 126
  - warehouse systems, 60, 68
  - white-box (component hierarchy patterns), 158, 166
  - white-box views, 39
  - Withdraw Money, 86
  - writing use-case descriptions (style guides), 106-109