

Index

- abstract testing, 274
- acceptance criteria, 270
- acceptance tests, 270
- activity diagrams, 113, 114, 174-175, 321
- actor catalog, 144
- actor description, 144
- actor hierarchy, 148
- actor map, 59, 114, 144, 148-149, 157, 300, 319
- actor table, 32, 59, 64, 112, 114, 129, 144-150, 157, 297, 300, 318
- adaptation projects, 299
- analyst apprentice, 86
- analyzing requirements, 109-230
- ask why five times, 90
- atomic business rules, 211-212
- automation lanes, 126
- business events, 123, 133, 134, 136, 156, 201
- business glossary, 32
- business interaction model, 118
- business policies, 112, 114, 137-143, 204, 207, 320
- business process improvement, 121
- business rules, 36, 53, 91, 112, 114, 138, 140, 143, 151, 155, 160, 163, 166, 167, 177, 183, 184, 191, 193, 199, 200, 201, 203, 204-215, 244, 246, 254, 265, 274, 292, 297, 298, 300, 320
- cardinality, 188-189, 191, 195
- change control board, 285, 287, 289

change-control policies and procedures, 131, 282-288

change-driven projects, 174, 259, 295, 296, 301-310

characteristics of excellent requirements, 14-16, 259

class model, 112, 114, 195-196, 203, 245, 319

combined stakeholder categories, 61

commercial off-the-shelf (COTS) software, 1, 24, 29, 117, 300, 305

complex systems, 3, 89, 231, 277, 334

concept of operations (ConOps), 11, 234

concepts catalog, 32

conceptual data model, 183

conceptual testing, 274

context diagram, 36, 59, 77, 112, 114, 121, 127-131, 132, 134, 135, 136, 145, 146, 150, 154, 167, 297, 319

context navigation map, 177

context-free questions, 66

contextual inquiry, 84

correction projects, 298

critical systems, 217, 249, 301, 334

cross-functional process map, 122

customer profile, 59

data dictionary, 112, 114, 130, 136, 150, 177, 197, 198, 203, 245, 246, 297, 298, 319

data flow diagram, 113, 114, 126, 175-177, 321

data model, 112, 114, 126, 130, 136, 150, 163, 166, 167, 183-198, 200, 201, 203, 206, 207, 211, 245, 255, 277, 297, 298, 300, 319

data table, 112, 114, 198, 319

decision table, 112, 114, 212-213, 215, 320

decision tree, 112, 114, 213-215, 321

demonstration, 277

design and implementation constraints, 8, 11, 232, 251-252, 253, 296, 297

design workshop, 69

dialog hierarchy, 112, 114, 181, 318

dialog map, 114, 177-182, 193, 277, 318

domain model, 183

domain workshop, 69

eliciting requirements, 43-108

end user test, 270

enhancement projects, 297

entity relationship diagram (ERD), 183

ethnography, 84

event list, 132

event table, 132

event-response table, 112, 114, 129, 130, 132-136, 146, 155, 156, 163, 201, 203, 209, 254, 320

evolutionary prototypes, 79, 80, 90, 100, 278

existing documentation study, 91-94, 101, 102

exploratory focus groups, 83

exploratory prototypes, 77-81, 100, 102, 193, 303, 306

external interface requirements, 252-253, 296, 297, 299

facilitated workshops, 69-77, 100, 102, 105, 306

features, 10, 61, 91, 219, 222, 223, 225, 226, 227, 239-240, 244, 258, 292, 300

field observation, 84

flowchart, 175

focus groups, 81-83, 101, 102, 105, 306

functional requirements, 7, 11, 87, 113, 132, 135, 144, 150, 151, 183, 232, 237, 238, 239, 242, 245, 249, 250, 254, 258, 262, 292, 300

functional specification, 12, 238

functional tests, 270

glossary, 32-36, 67, 112, 114, 129, 134, 136, 143, 150, 186, 187, 193, 206, 211, 217, 245, 246, 319

good requirements documentation practices, 14

good user requirements modeling practices, 215-217

horizontal prototypes, 78-79

impact analysis, 262, 283

included use cases, 162

incremental delivery, 70, 225

informative use cases, 155, 323

inspections, 263-264, 306

interviews, 65-69, 100, 102, 105, 279, 306

joint application design/development (JAD), 69

joint requirements planning (JRP), 69

legislation, 137

line of visibility model (LOVEM), 122

logical analysis, 274

logical data model, 183

managing requirements, 281-294

manual processes in process maps, 126

market analysis, 91
market surveys, 94
metaquestions, 67
mock-up, 77
model validation, 87, 270, 274-276, 280
model walk-throughs, 274
modeling workshop, 69
MoSCoW scheme, 104, 229
new development projects, 296
nonfunctional requirements, 8, 11, 88, 113, 237
observation, 84-86, 88, 101, 102
operational prototypes, 193, 277-280, 300, 306
optionality, 188, 190, 191, 195
organizational context diagram, 118
organizational relationship map, 118
peer reviews, 46, 108, 263-269, 280
performative use cases, 155, 323-324
personas, 114, 149-150, 318
perspective-based review, 269
planguage, 259-260
prioritized requirements, 218-230
problem statement, 31
process maps, 36, 113, 114, 121, 122-126, 155, 175, 300, 321
product differentiation statement, 28
product position statement, 28
project types, 295-300, 304, 305

proof of concept, 277

prototype reviews, 77

prototypes, 112, 114, 181, 193, 318

quality attributes, 8, 91, 95, 163, 166, 186, 232, 235, 238,
246-249, 250, 254, 256, 258, 259, 270, 276, 277, 296, 297,
298, 299, 300, 329-334, 335

quality function deployment, 230

questionnaires, 94

real-time software/systems, 2, 136, 166

regulations, 137

relationship maps, 36, 112, 114, 118-121, 155, 318

requirements attributes, 286-287, 289-291

requirements defects, 5, 143

requirements definition, 234

requirements document, 238

requirements engineering, 16

requirements management tools, 284, 287, 290, 293

requirements negotiation, 218

requirements retrospectives, 21, 309-310, 336-337

requirements reuse, 91

requirements risk assessment plan, 36

requirements risk management plan, 36

requirements risk mitigation strategy, 36-42

requirements scrubbing, 218

requirements source list, 47-49

requirements trace matrix, 219, 244, 257, 258, 291-294, 297,
298

requirements traceability, 18

requirements triage, 218

requirements validation, 6-7, 262-280

requirements verification, 6-7, 245

requirements workshop, 69

risk-driven projects, 295, 296, 301-310

role modeling, 86

roles and responsibilities, 21-26, 60, 70, 144, 265, 307-309

scenario-based engineering, 86

scenarios, 74, 76, 78, 90, 113, 114, 126, 143, 155, 160, 167, 169, 172-173, 174, 177, 179, 187, 191, 193, 207, 254, 271, 275, 278, 297, 298, 300, 306, 321

scope diagram, 127

script, 150

scripting, 86

secondary actors, 156, 157, 167

selecting elicitation techniques, 99-102

setting the stage, 27-42

shadowing, 84

signal events, 133, 134, 156, 201

simple requirements prioritization, 229

social analysis, 84

soft systems analysis, 84

software requirements specification, 12, 24, 61, 138, 163, 166, 231-232, 233, 235, 237-260, 265, 306

software requirements specification inspection checklist, 267, 325-328

specification, 12, 238

specifying requirements, 231-260

stakeholder analysis, 59

stakeholder categories, 32, 49-59, 60, 76, 112, 113, 114, 146, 150, 318

stakeholder classes, 49

stakeholder elicitation plan, 44, 48, 64, 103-108

stakeholder inclusion strategy, 103

stakeholder influence/importance, 107

stakeholder involvement plan, 103

stakeholder profile, 59-64, 90

stakeholder statement, 49

stakeholder workshop, 69

standards, 137

state diagram, 36, 112, 114, 199-204, 320

state transition diagram, 199

state-data matrix, 112, 114, 203-204, 320

statechart diagram, 199

stimulus-response sequences, 86

stories, 74, 113, 114, 143, 173-174, 306, 321

storyboard, 77, 177

structural prototype, 277

surrogates, 52, 77, 105, 233, 265

surveys, 94-99, 101, 102, 105, 279

swimlane diagram, 122

system definition, 234

systems/system requirements, 2, 3-4

task, 150

task scripts, 86

team review, 264

technical specification, 12, 238

temporal events, 133, 134, 135, 136, 153, 156, 169, 201

throwaway prototypes, 79, 80, 278

Unified Modeling Language (UML), 148, 167, 171, 174

usability tests, 279

usage analysis, 86

use cases, 11, 36, 64, 87, 113, 114, 126, 129, 130, 132, 136, 144, 148, 150-177, 178, 179, 181, 187, 191, 193, 199, 200, 203, 207, 208, 209, 211, 212, 219, 240, 244, 254, 275, 277, 278, 292, 297, 298, 299, 300, 321

use case diagrams, 157, 167-169, 321

use case document, 234

use case maps, 112, 114, 126, 169-170, 171, 178, 297, 321

use case packages, 113, 114, 171-172, 219, 240, 321

use case specification, 150

user acceptance tests, 6, 78, 87, 90, 269-274, 275, 280, 298, 300, 302, 306

user interface flow diagram, 177

user interface navigation diagram, 177

user manual drafts, 274

user profile, 59

user requirements document, 11, 61, 231-232, 233, 234-237, 239, 257, 265, 306

user requirements models roadmap, 114

user role model, 144, 148

user task analysis, 86-90, 100, 101, 102

validating requirements, 261-280
value/cost/risk prioritization, 226-228
vertical prototypes, 78-79, 277
vision context diagram, 131
vision statement, 28-31, 200, 240, 257
voice of the customer, 75-76
walk-throughs, 81, 169, 177, 209, 254, 267