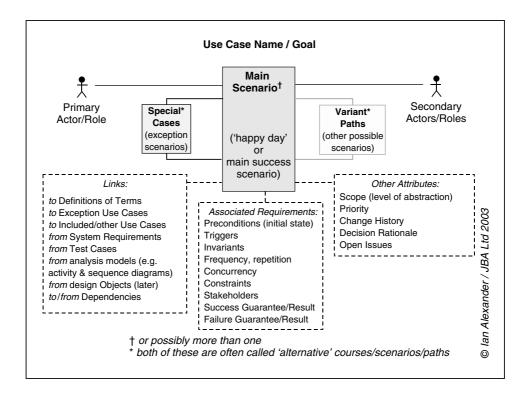
Use Case Guidelines



abbreviated from CREWS-L'ECRITOIRE (see Chapter 8 for full details)

General Guidelines

GG1: Name each Use Case as an active goal (e.g. 'Publish a Report', 'Service the Car', 'Buy a Gift').

GG2: Fill out a Use Case template (e.g. Templates in Appendix 1-3)—scenarios alone are not enough.

GG3: In each Use Case, write a set of scenarios describing alternative ways to achieve the goal.

 GG_4 : Write all the scenarios of a Use Case in consistent terminology, style, and content.

 GG_5 : Validate your Use Cases with a checklist (e.g. these guidelines).

Style Guidelines

Style of scenario interactions:

 SG_{I} : Describe scenario interactions in action clauses, e.g. 'The cook puts the prepared pizza into the oven.'

 SG_2 : Do not include circumstances, e.g. 'in the morning', 'at the office', 'quickly'.

SG3: Describe what should occur; avoid negation (e.g. 'not', 'never') and modal verbs (e.g. 'could', 'may').

Style of scenario flows of actions:

SG4: Describe sequences of interactions to tell a story; avoid flashbacks and forward references.

 SG_5 : Make explicit when repetitions and concurrency are needed.

SG₆: Avoid describing alternatives (e.g. 'if', 'else') within a scenario—describe alternatives separately.

Style of scenario initial states and final states:

SG7: Do not describe initial and final states within scenarios—put them outside the scenario description.

Style of scenario terminology:

 SG_8 : Always use the same name for a given object or action; take care to avoid name clashes.

 SG_9 : Avoid ambiguous terms like pronouns (e.g. 'he', 'him').

 SG_{I0} : Do not refer directly to Use Case and scenario meta-models.

Content Guidelines

Scenario general content: single flow of interactions:

CG₁: Make each scenario describe a single flow of interactions to achieve an agent's goal. Describe alternative scenarios separately.

Scenario interaction contents:

CG₂: Describe Interactions in the general format: <Agent> <does> <something>. Examples: The Teller hands the Cash to the Customer. The Guard silences the Alarm. The Pilot acknowledges the Controller's command.

Content of flows of actions:

CG3: Make each scenario tell a story, using a list of Interactions. Write one interaction per line.

CG4: For repetitions, use the template: Repeat <Interactions> Until <Condition>

CG₅: State constraints explicitly, using the template: If <Condition> Then <Interactions>

CG₆: Interactions can be concurrent. Use the template: <Interaction> Meanwhile <Interaction>

Scenario initial and final states:

CG7: Make each scenario satisfy initial states (preconditions) and end in final states (desired results).

Scenario content, with respect to goals:

 CG_8 : Make each scenario illustrate the achievement of a goal (such as handling an exception).

Scenario content, with respect to level of context:

CG9: Describe each scenario at one level of context only:

- At the contextual level, scenarios describe flows of services among agents.
- At the functional level, scenarios describe interactions with the system.
- At the physical level, scenarios describe interactions between system components.