

Use Case

- *def'n*: a description of a set of sequences of actions, including variants, that a system performs to yield an observable result of value to an actor
- every interesting system interacts with human or automated actors
- specifies the behavior of a system or part of a system
- captures intended behavior, without specifying how behavior is implemented
- aids common understanding of end users and domain experts
- denote essential system or subsystem behavior
- basis for test cases as they evolve during development

Use Case Definition

- set of sequences: each sequence represents the interaction of the things outside the system and within the system
- system level functions that help visualize, construct, and document the intended behavior of your system during requirements capture and analysis
- represents functional requirements of system as a whole





Use Case Definition

tangible work some measurable accomplishment that, from the perspective of a given actor, is of value

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Actor

- *def'n*: a coherent set of roles that users play when interacting with a use case
- role that a human, hardware device, or another system plays with system
- live outside of the system
- Convention
- stick figure
 - actors can be specializations of each other
 - connected to use case by association, indicating communication between use case and actor







Organizing Use Cases con't

include

- base use case explicitly incorporates the behavior of another use case at a location specified in the base
- included base class never stands alone, but is
- instantiated as part of some larger base
- avoids redundant description of same flow of events

Convention

- dependency from base use case to another use case
- stereotype <<include>> or <<uses>> on dependency









Hints and Tips

- Name a reasonable partition of the system
- Factor common behavior
- Factor variant behavior
- Describes flow of events clearly enough for outsider to understand
- Use scenarios that specify normal and variant behavior