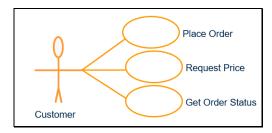
Use case

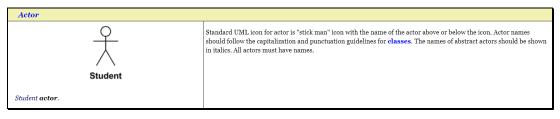
A formal way of representing how a business system interacts with its environment.

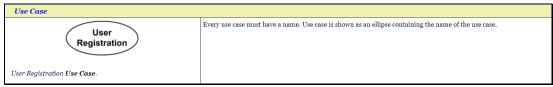
Use Case Diagrams

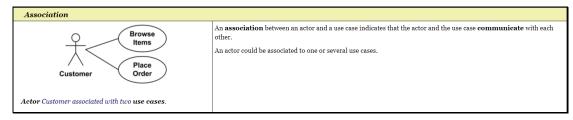
Use Case Diagrams model the functionality of system by using Actors and Use Cases:

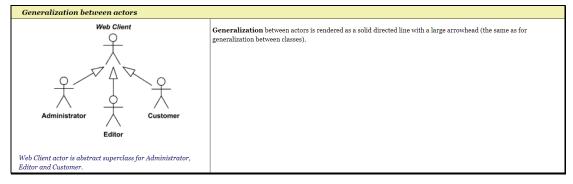


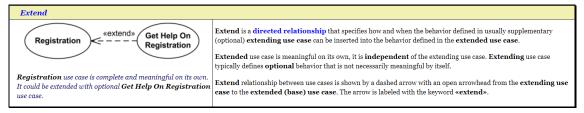
Notations used in the Use case diagram with examples.

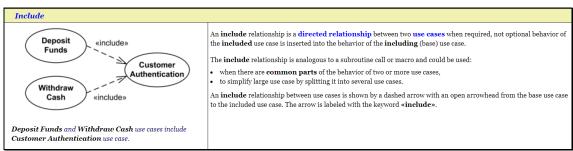




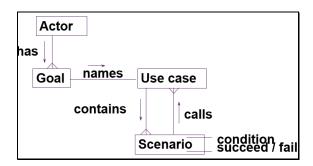








Use cases: Actors and Goals



Other Use case aspects	Meaning
Alternate paths	Result positive: An Alternate Flow is a step or a sequence of steps that achieves the use case's goal following different steps than described in the main success scenario. But the goal is achieved finally.
Exception	Result negative: An Exception is anything that leads to NOT achieving the use case's goal.
Error	Errors are when things unexpectedly go wrong. They can result from malformed data, bad programs or logic errors, or broken hardware
Precondition	Constraint on when a use case can start
Post condition	This should be true regardless of which alternative flows were executed

Steps in Use Case Modeling

- 1. Identify the actors and their goals
- 2. List the use cases and sketch the system through usecase diagram.
- 3. Write failure conditions / alternatives as extensions
- 4. Follow the failure till it ends or rejoins
- 5. Note the data variations
- 6. Deferred variations note cases that must be handled eventually, by lower-level use cases
- 7. Useful for tracking requirements at high level.