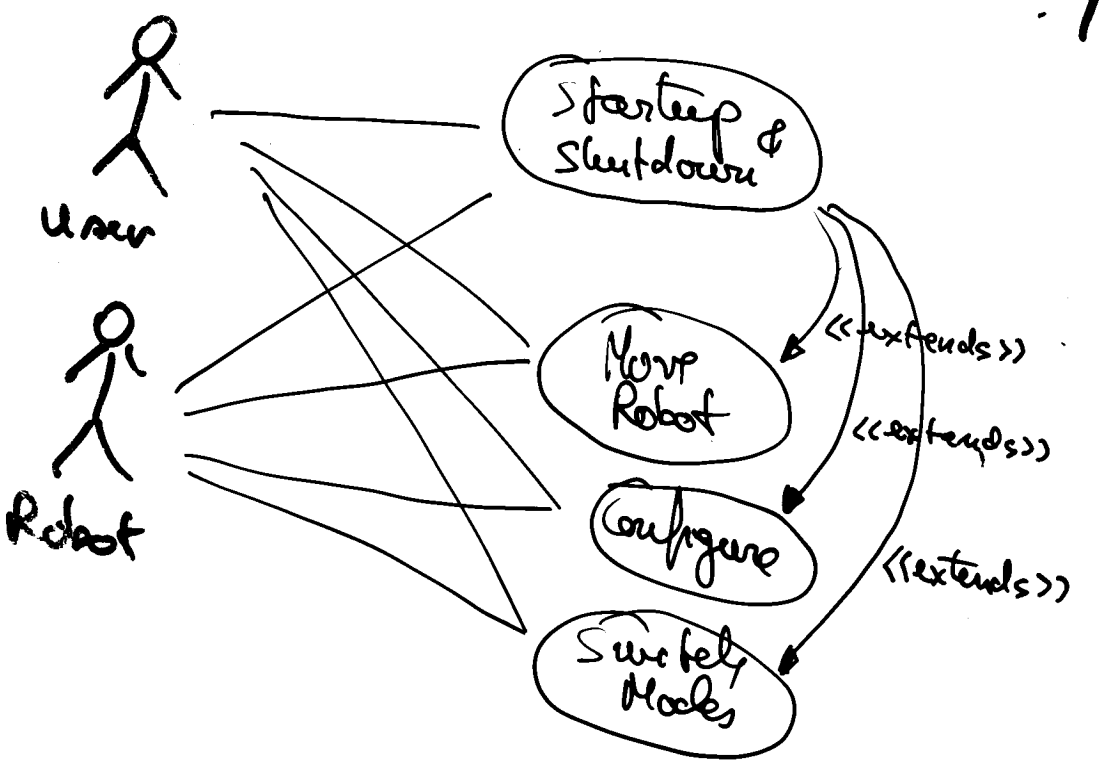
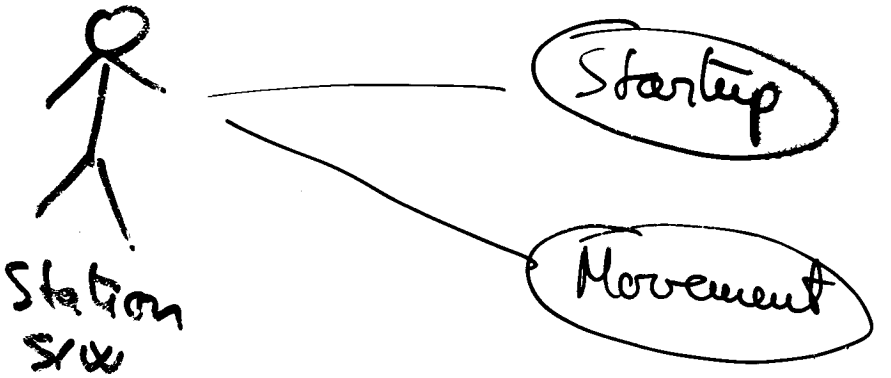
Example of Use case diagram & use case.

↓
story !

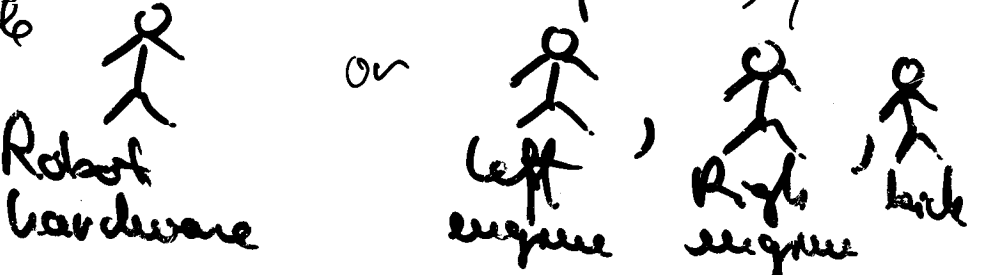


For station



For robot.

OBS : You can choose different levels of abstraction here... For Robot component, you might include



Usecases Example

Startup & Shutdown

Actors: User, Robot

Pre-condition } not needed here
Post-condition }

Flow of events

- the user starts the station sw
- the main screen appears. The station attempts a connection with the Robot
- ~~while~~ as long as the connection is not established, the "off-line" status is displayed and movement keys are disabled. This is shown visually on main screen. *
- when connection is established, "on-line" status is displayed and movement keys are ~~disabled~~ enabled.

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* While off-line, the user can only configure the Robot (see Configure use case).

Use cases Example 2

Movement (for Robot)

" this is an example of a trickier use case; if you want to describe movement, a state-chart is perhaps more suitable "

Actors: - station

Precondition: - robot connected

Postcondition: - robot connected

Flow of events

- the station sends a command.
- cases:
  - stop: robot stops immediately either linear or angular motion.
    (notice, this is zero mass mode; you may split "movement" use case in two < 0-mass / inertial ; connect the two with "movement" by "user" relationship)
  - turn (right / left): if moving, robot stops immediately; then it turns using angular speed 1.
  - ⋮

[... etc ...]