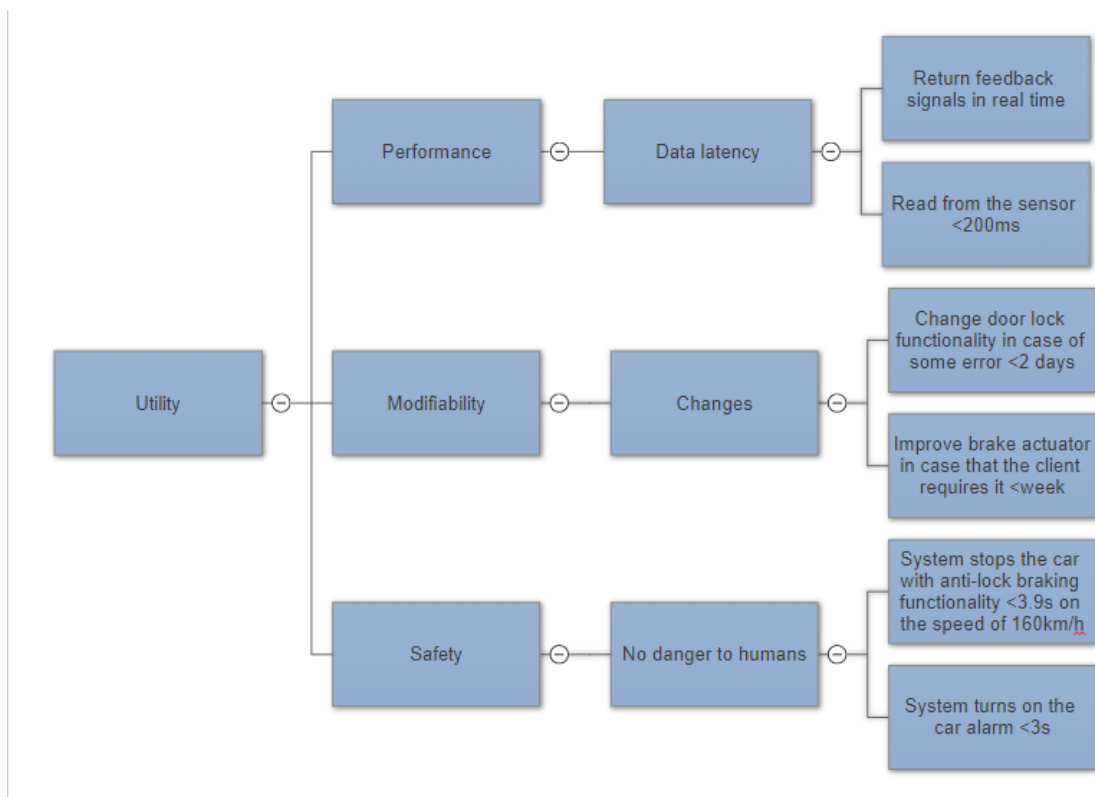# Laboration 3: Software Architecture Evolution

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*Utility tree:*

*ATAM:*

Scenario: Return feedback signals
Attribute: Performance
Environment: Normal operations
Stimulus: fault in receiving signals in real time
Response: real time

Scenario: Read from the sensor
Attribute: Performance
Environment: Normal operations
Stimulus: signal is taking longer than expected, so it takes more than 200ms
Response: <200ms

Scenario: Change door lock functionality
Attribute: Modifiability
Environment: error
Stimulus: door lock functionality broken
Response: <2 days

Scenario: Improve brake actuator in case that the client requires it
Attribute: Modifiability
Environment: client's request
Stimulus: Setting braking range
Response: <week

Scenario: System stops the car with anti-lock braking functionality
Attribute: Safety
Environment: in case of need to stop the car at the speed of 160km/h
Stimulus: Emergency need to stop the car
Response: <3.9s on the speed of 160km/h

Scenario: System turns on the car alarm
Attribute: Safety
Environment: in case that someone wants to break into
Stimulus: unwanted actions on the car
Response: <3s


*Estimated effort:* 9 hours