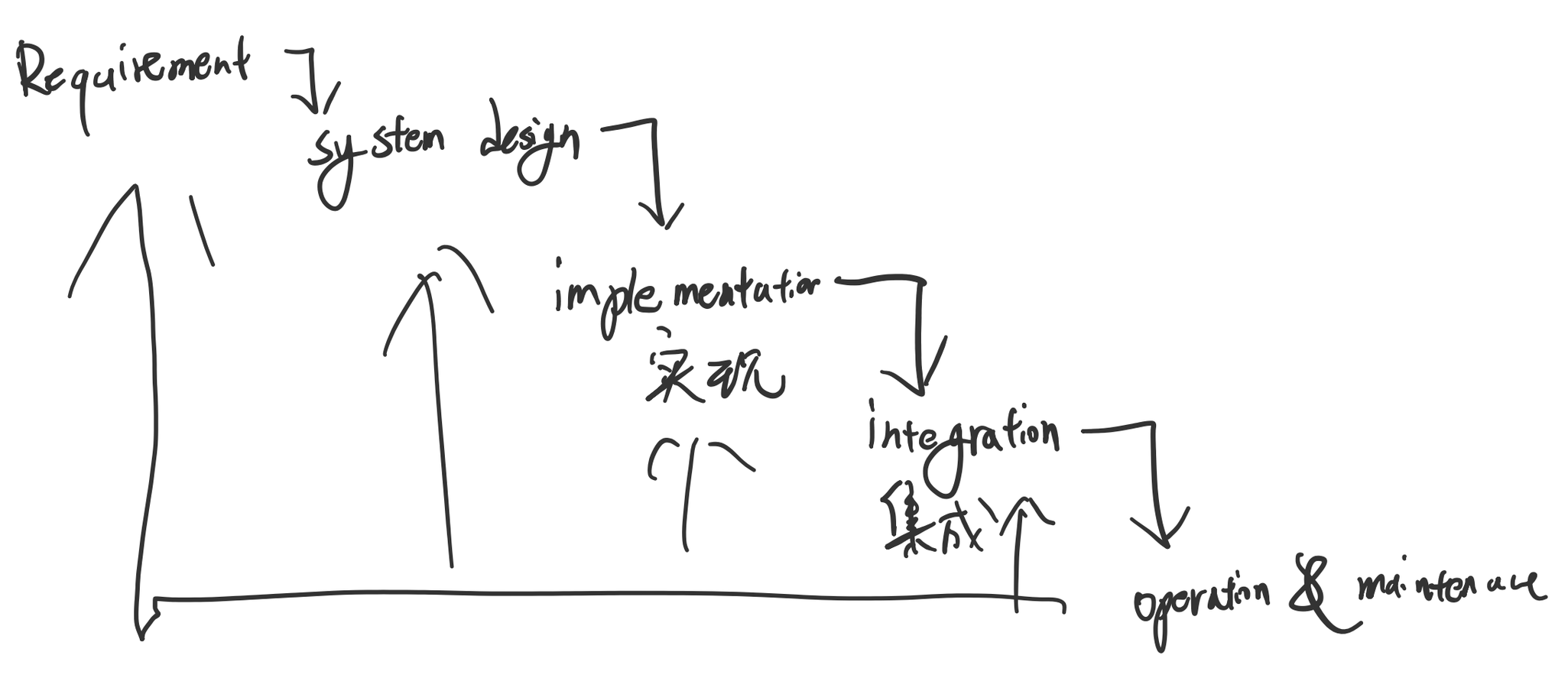
2024年3月3日 星期日 08:43

W1

Engineering : cost-effective solutions
applying scientific knowledge to things for people

UML Design

Water fall



Verification : 系统是否符合需求

Validation : 系统满足客户

W2 Agile SD 敏捷开发

2001 manifesto

4 key value

alternative way of SD

client's needs coder's needs

extreme Pro XP 极限编程

test driven dev

Kanban

Scrum 管理模式
一个每日例会
小快速迭代
To do list

先写test driven开发
write pro to pass the test
no test no implemented
test ⇐ system requirement

W3 Requirement B

system requirement : user observation

functional requirement : what system supposed to do
- service
- input → output
- not to do

non-functional requirement : how functional requirement are realised
- 对系统服务的约束 constrains
- often apply on whole system, not only a feature

Requirement are Instructions

acceptance criteria 验收标准

stakeholders Onion model

Surrogate stakeholder 代理受益者

negative stakeholders 消极利益相关者

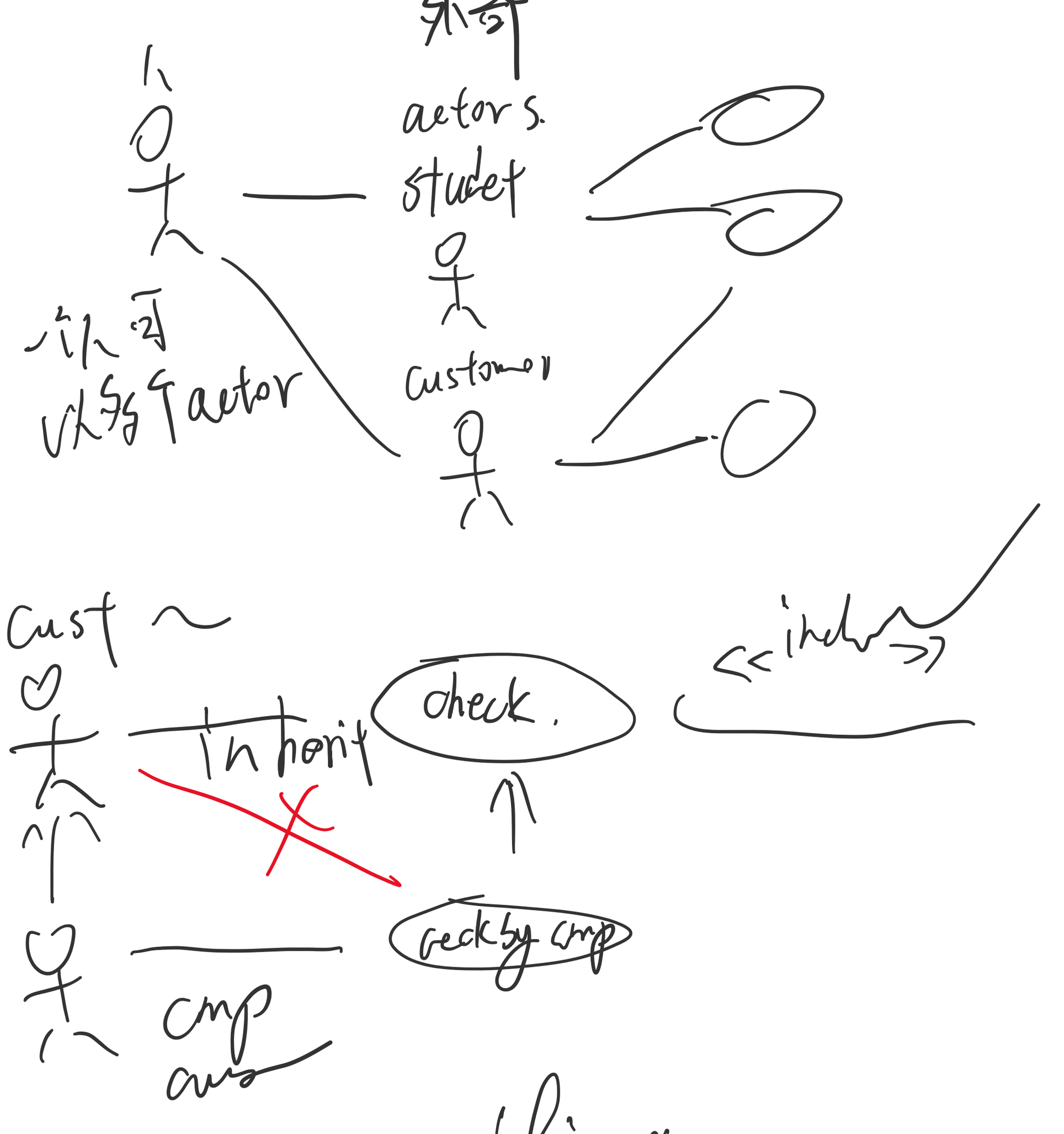
Top level needs / concerns

Identify "User stories"

system behaviour ⇐ captured in user case

actors & use cases → do the action the system takes

actors are external 外部



Use-case specification

Use-case Name

Brief

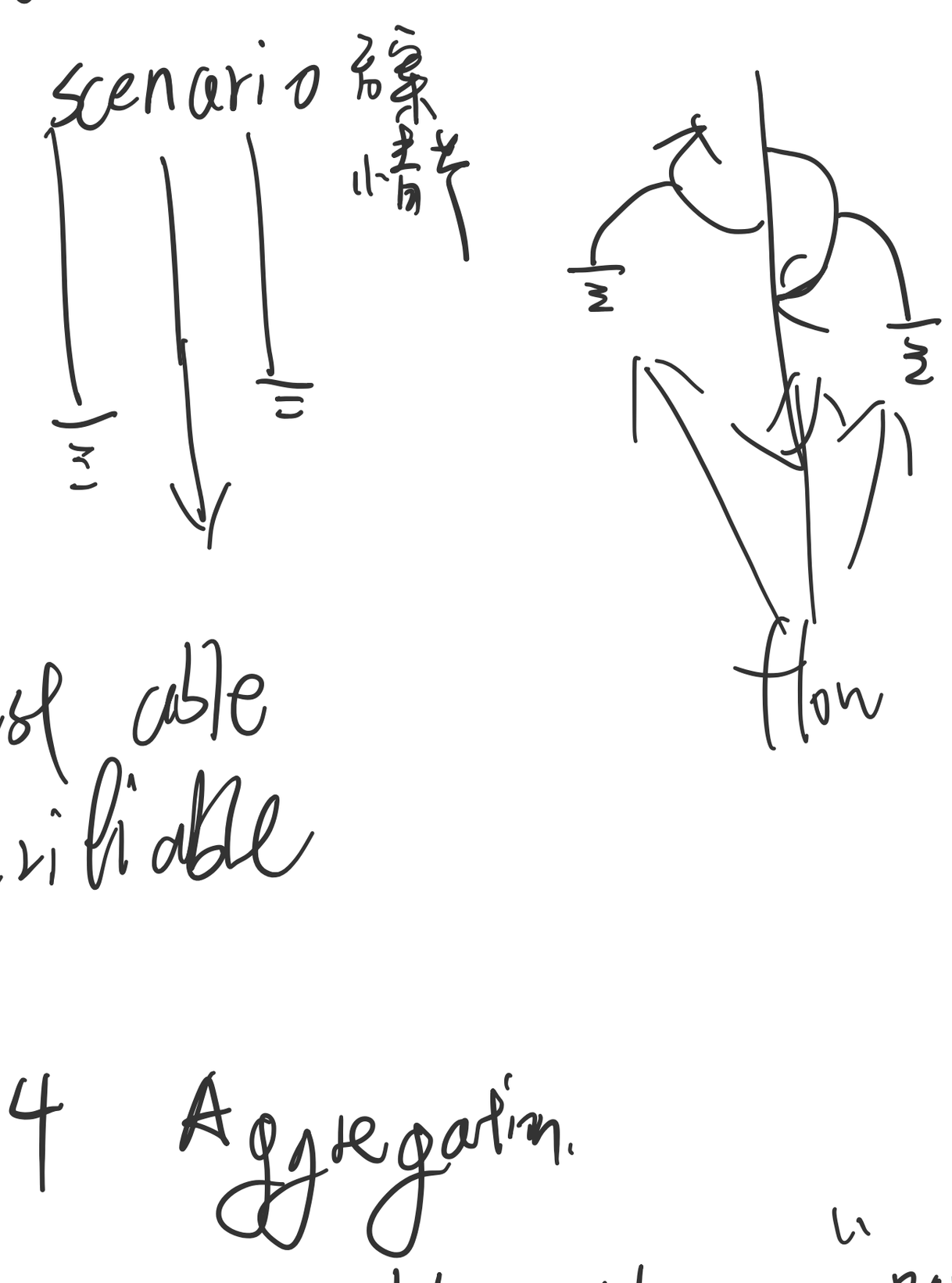
Basic Flow

1
2
3

Alternative Flows

1
2
3

exceptional (error) flows



test able

verifiable

W4 Aggregation.

whole-part "part of"

Composition.

强所有权

Generalization "is a" "kind of"

一继承子类的属性