Templates for exploratory questions generation
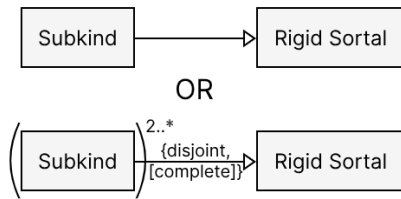
Subkind pattern

Is any <Subkind> a <Rigid Sortal>?

What types of <Rigid Sortal> exist?

What is in the nature of a <Rigid Sortal> that allows the distinction into <Subkind>+?

> E.g., for the School information system there should be a relation with a school.
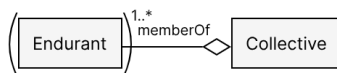
> E.g., for the Private Organization there should be a Quality of Organization.

Can a <Subkind> become a <Subkind>?

Can a <Subkind> be a <Subkind> at the same time?

> E.g., Can School be a Private Organization?

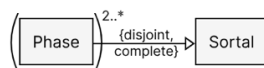## Collective pattern

What is the nature of the <Collective> elements?

What type of elements unites the <Collective>?

Are elements of this <Collective> uniform?

> Yes, if memberOf. No, if subcollectionOf

Phase pattern

Is any <Phase> a <Sortal>?

What types of <Sortal> exist?

> E.g., Adult, Child

> E.g., Ongoing Walk, Redirected Walk, Successful Walk (for mode "Walk")

What is in the nature of <Sortal> that allows the distinction into <Phase>+?

> E.g., history of Sortals, i.e., Age as Quality of Person

Can <Phase> become another <Phase>?

> E.g., Child will become an Adult. But not vice versa.
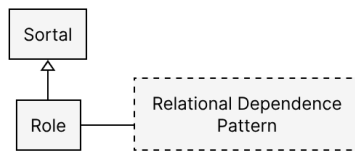
Can <Phase> intersect with another <Phase>?

Can we suggest another <Phase> of <Sortal>?

> E.g., Divide Child into Infant, Pre-School, etc.

Can an instance be at a <Phase> and a <Phase> at the same time?

Role pattern

Role requires Relational dependent pattern. Either it is a memberOf collective, or it is mediated by relator.

What elements play the role of a <Role>?
    E.g., Teacher is a Person
Why was a <Role> introduced?
    E.g., because of the Employment relator
How a <Sortal> can become a <Role>?
    E.g., to become a Teacher one needs to be Employed.
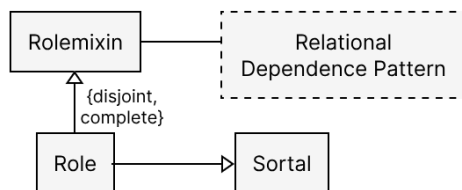What roles can play a <Sortal>?
Can an instance be a <Role> and a <Role> at the same time?
    E.g., can the student be ordinary student and external student at the same time?
    NO for the same school. YES!! In different schools.

Rolemixin pattern

What is in the nature of <Rolemixin> that require it existence?
    I.e., <Rolemixin> require relational dependence.
What are the [<Role>]$^+$s that can be used as <RoleMixin>?
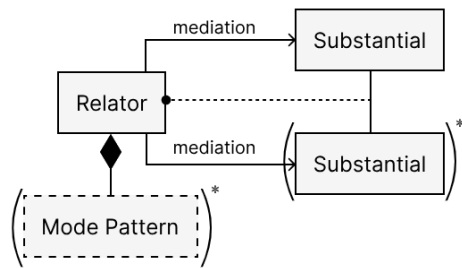   E.g., Teacher and Student.
What is in the nature of <Rolemixin>? What entities can be a <Rolemixin>?
What criteria <Sortal> needs to satisfy in order to be a <Rolemixin>?
    E.g., a person should become a Teacher or a Student?

Relator pattern

What is in the nature of a <Relator> that requires its existence?

        I.e., why it was not enough to have a relation only
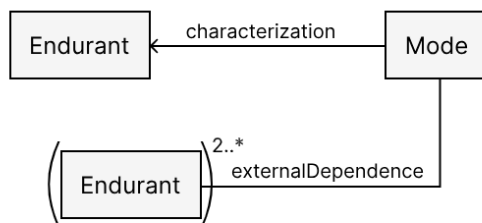
What is in the world that grounds the relation between a <Substantial> and a <Substantial>?

        E.g., what makes Teacher a teacher in this school?

Why <Mode> is existentially dependent on a <MediatedEntity>?

        E.g., why school's commitments are dependent on the Teacher?

Mode pattern

Category pattern