

Fahrenheit 451

Agile schadet der
Dokumentation

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Abraxas Informatik AG

Fahrenheit 451

**The temperature at which
paper catches fire and burns...**

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it.

Through this work we have come to value:

Individuals and interactions over processes and tools

Working software over comprehensive documentation

Customer collaboration over contract negotiation

Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

Liberi	Ignis	Domes	Mendosus
30 Dev	5 Dev (4 from Liberi)	7 Dev	up to 15 Dev
350kLOC	25kLOC	200kLOC	270kLOC
Waterfall	Waterfall	Agile	Agile
Successful	Canceled	Successful	Successful, but...
> 1000 documents	40 documents	10 documents	3 documents
Automated tests	Automated tests	Automated tests	No tests at all
Maintenance-team	N/A	Project team	Maintenance-team

Mendosus

up to 15 Dev

270kLOC

Agile

Successful, but...

3 documents

No tests at all

Maintenance-
team

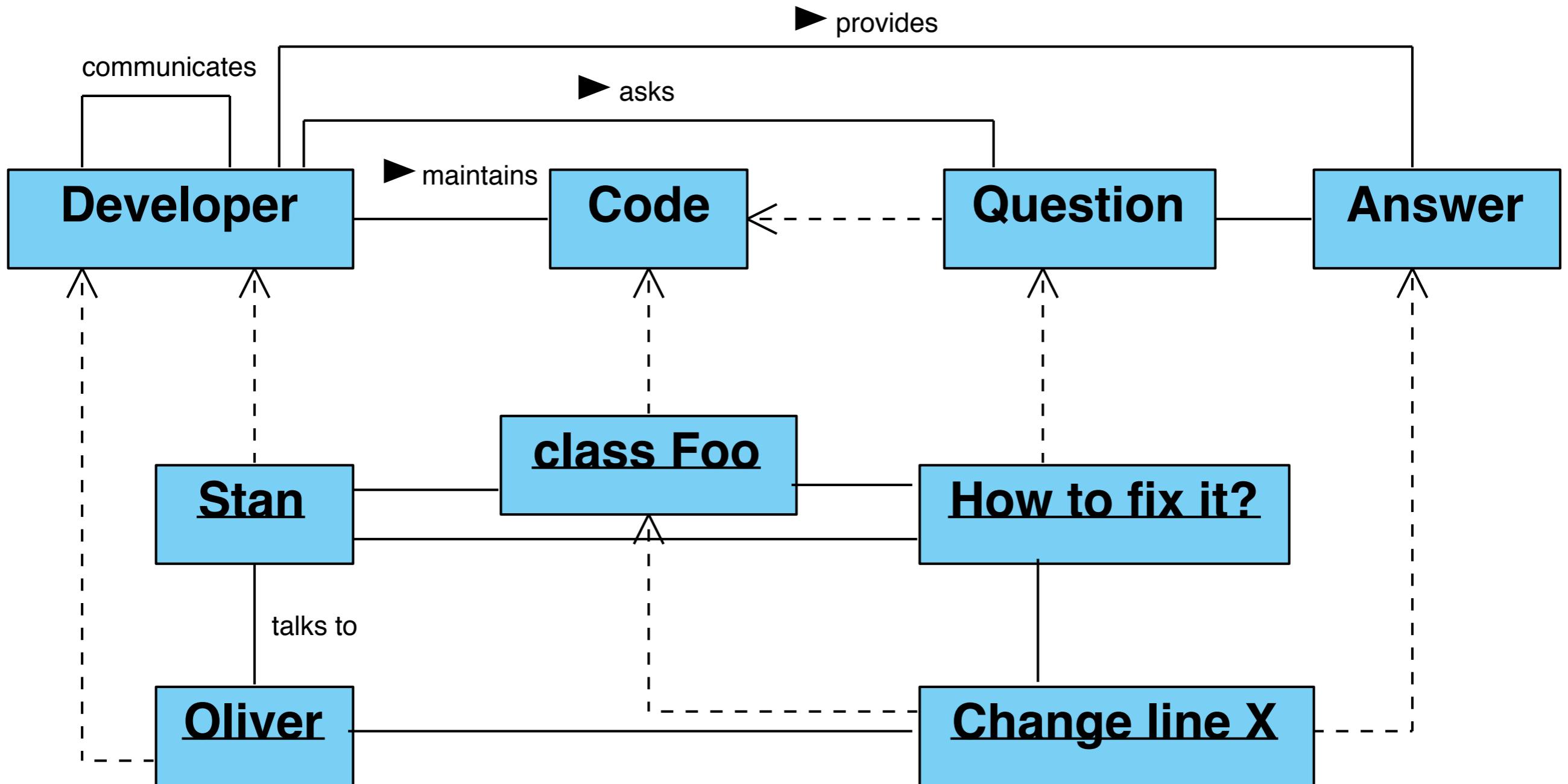
Customer project to product

employees changed

Maintenance costly and error-prone

Documentation consists of
user manual
requirements

one diagram with 40 boxes



Single
Head
Of
Knowledge

Stan

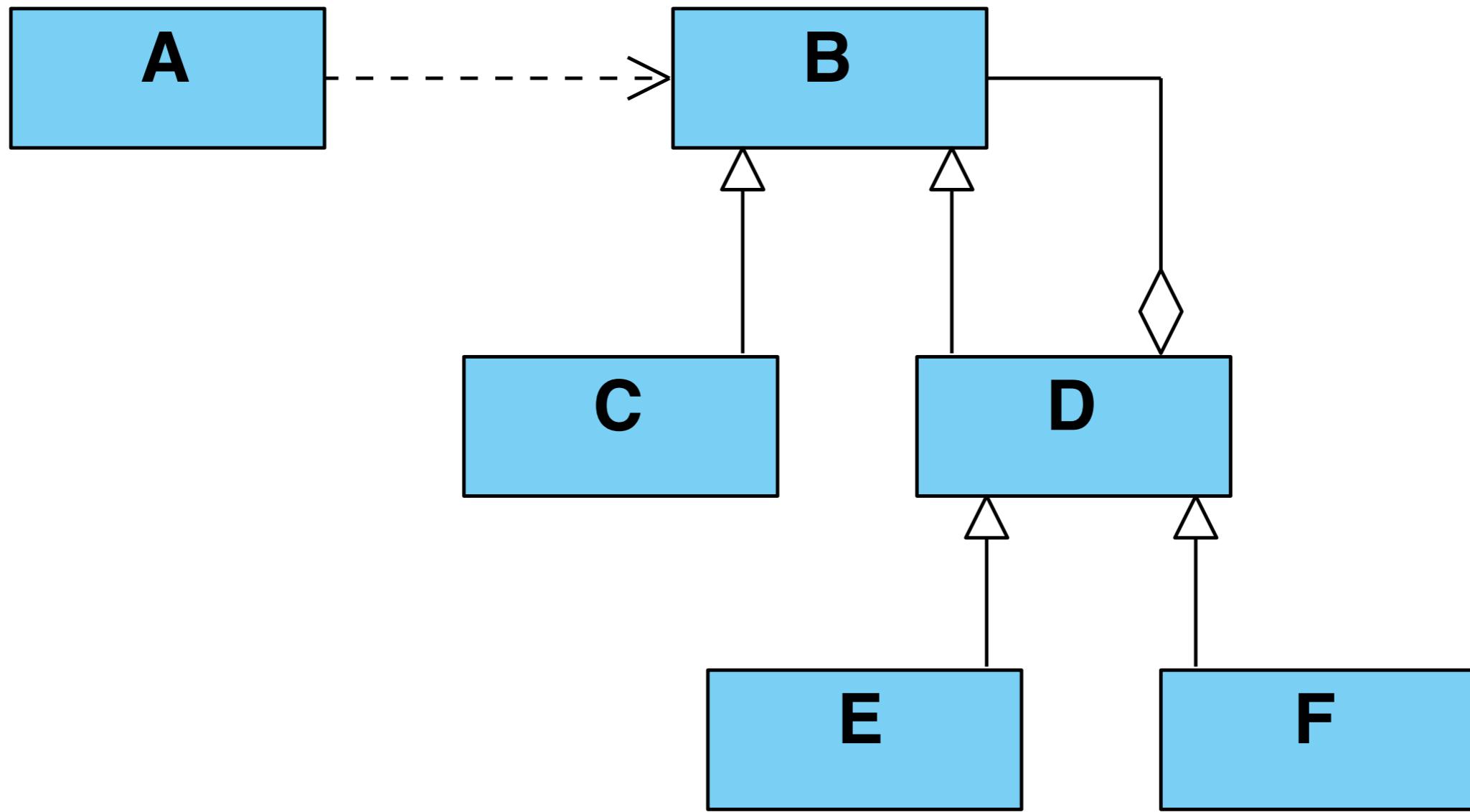
How to fix it?

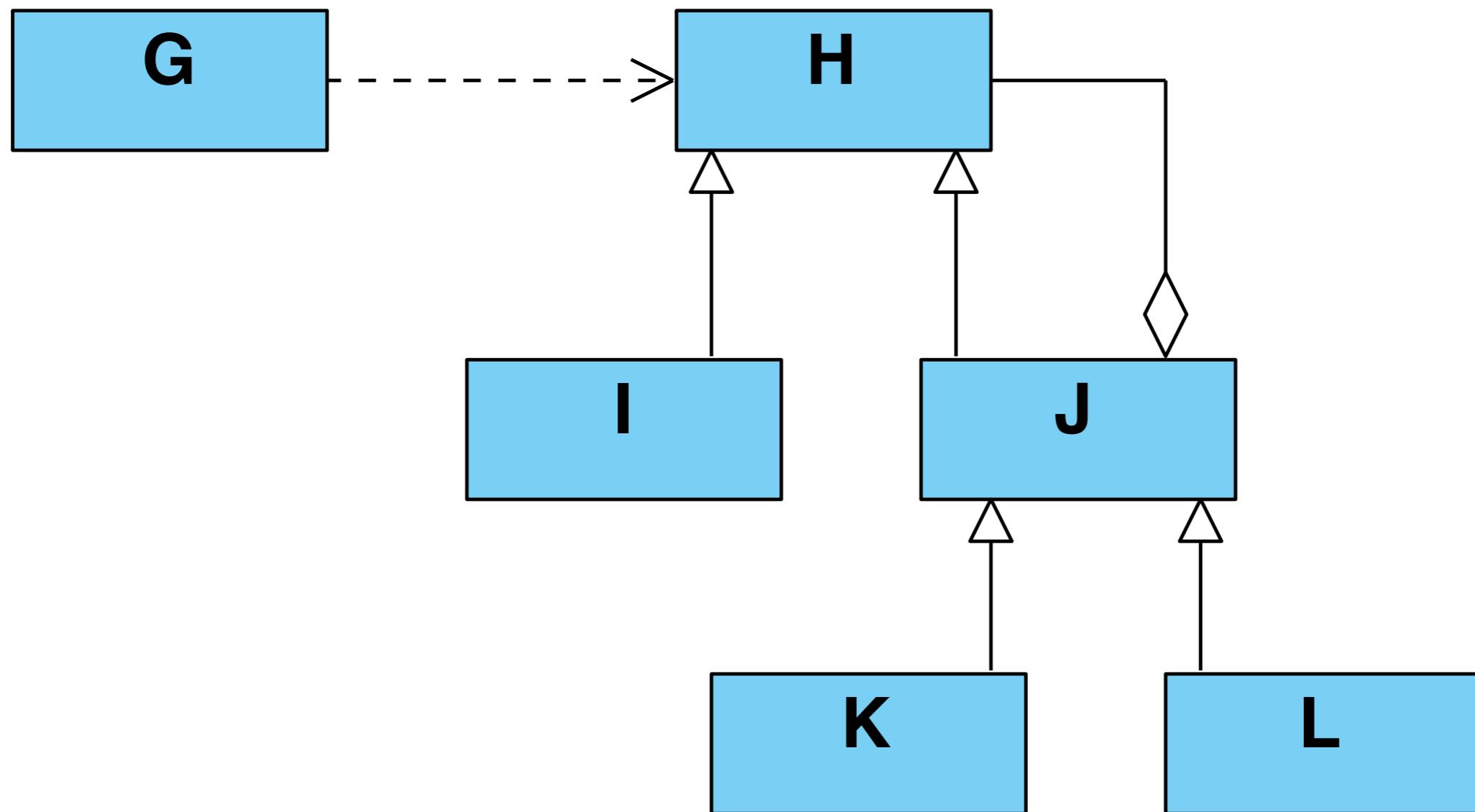


```
public class Helper {  
  
    private static int process(int ll, int l1) {  
        while (ll != 0 && ( (ll > l1) ? (ll = ll - l1) == l1 : (ll = l1 - ll) == l1));  
        return ll;  
    }  
  
    public static void main(String[] args) {  
        System.out.println(process(12, 44));  
    }  
}
```

```
public class Helper {  
  
    private static int process(int pZahl1, int pZahl2) {  
        while (pZahl2 != 0 &&  
            ( (pZahl1 > pZahl2) ? (pZahl1 = pZahl1 - pZahl2) == pZahl1 :  
                (pZahl2 = pZahl2 - pZahl1) == pZahl2));  
        return pZahl1;  
    }  
  
    public static void main(String[] args) {  
        System.out.println(process(12, 44));  
    }  
}
```

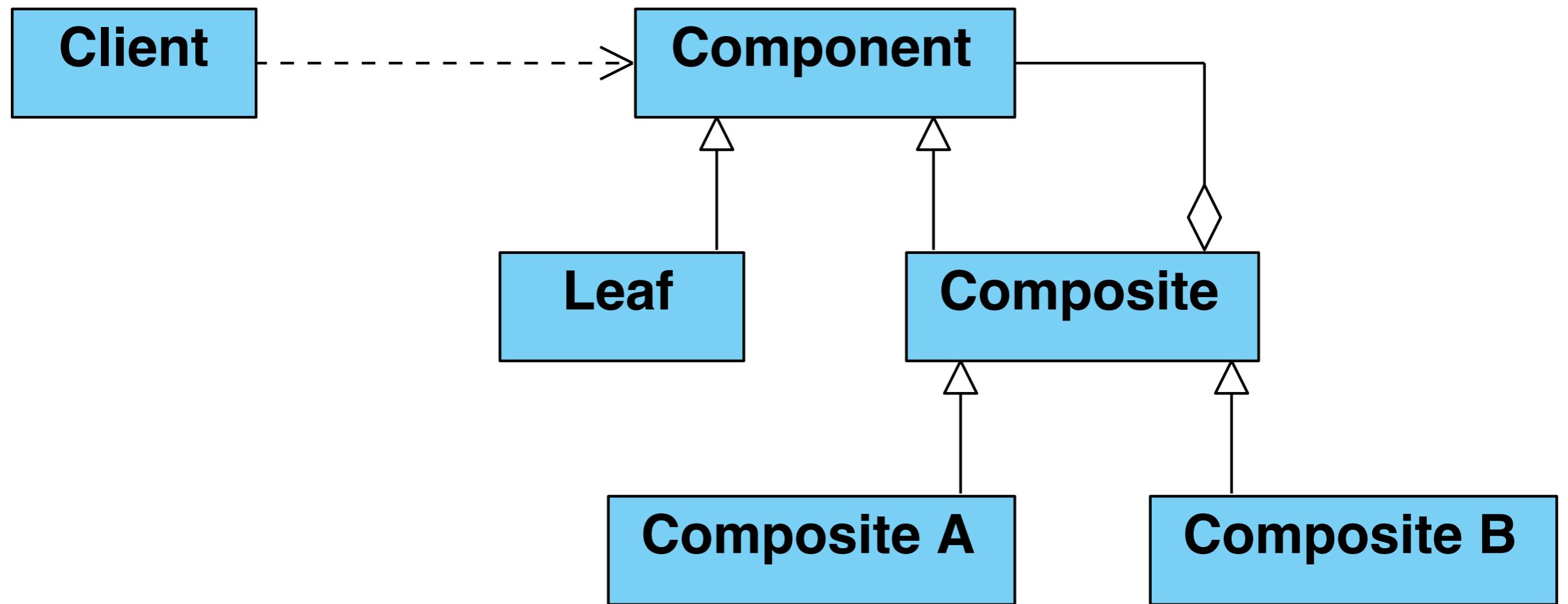
```
public class Helper {  
  
    private static int process(int pZahl1, int pZahl2) {  
        while (pZahl2 != 0) {  
            if (pZahl1 > pZahl2) {  
                pZahl1 = pZahl1 - pZahl2;  
            } else {  
                pZahl2 = pZahl2 - pZahl1;  
            }  
        }  
        return pZahl1;  
    }  
  
    public static void main(String[] args) {  
        System.out.println(process(12, 44));  
    }  
}
```

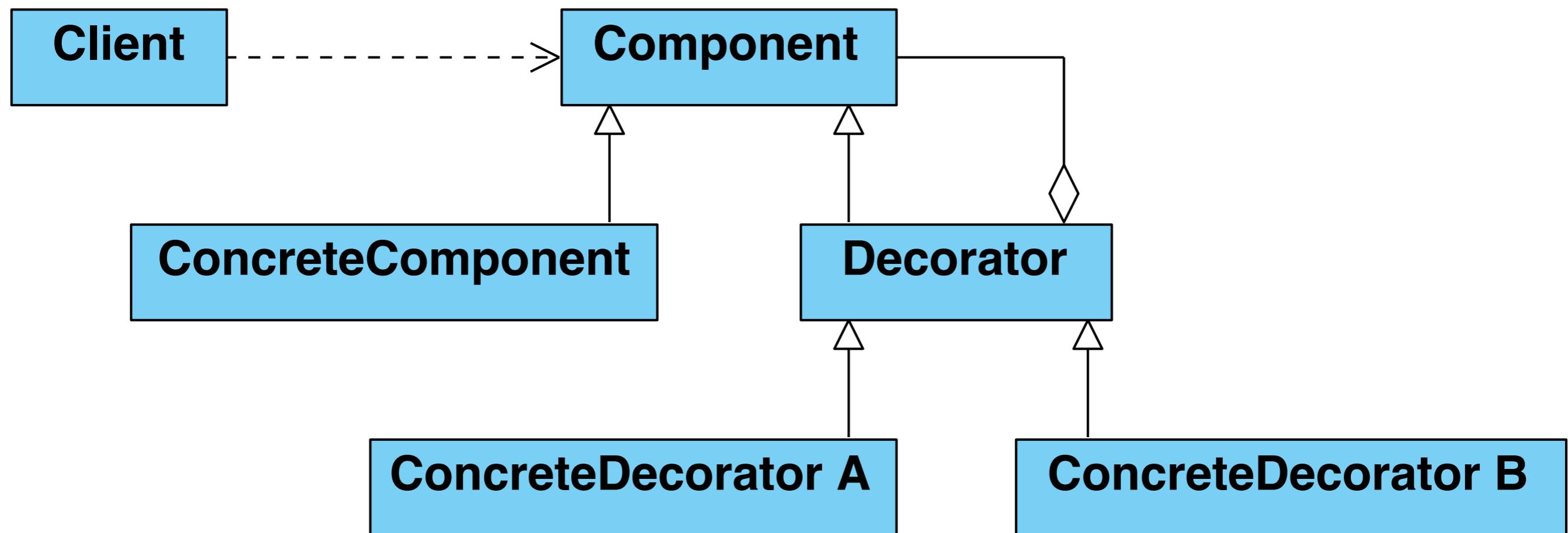




- ▶   a.b.c
 - ▶  d
- ▶  e
 - ▶  f
- ▶  g
 - ▷  h
 - ▷  i

```
public class Helper {  
  
    private static int process(int pZahl1, int pZahl2) {  
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            if (pZahl1 > pZahl2) {  
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            } else {  
                pZahl2 = pZahl2 - pZahl1;  
            }  
        }  
        return pZahl1;  
    }  
  
    public static void main(String[] args) {  
        System.out.println(process(12, 44));  
    }  
}
```





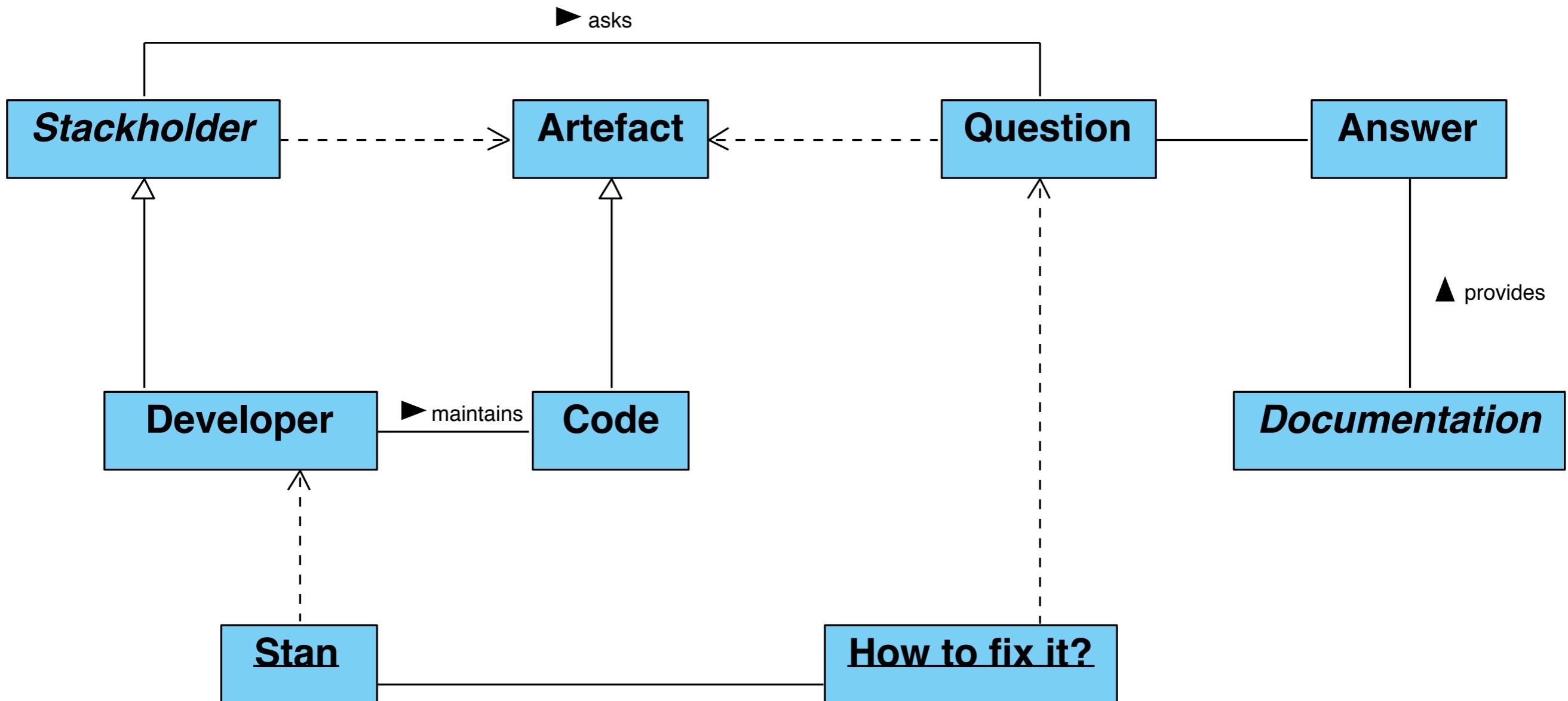
- ◀  **ch.abraxas.tax**
 -  **client**
 - ◀  **server**
 -  **invoice**
 - ◀  **partner**
 - ▷  **legalEntity**
 - ▷  **person**

Build

Deployment



Configuration



Questions Retirement

Access

Stackholders

Documentation

Maintenance

Which

When

Structure

Adaption

Value oriented

Practical

Customer oriented

Simple

Agile

Iterativ

Incremental

Excellency

Same level of abstraction

Low coupling

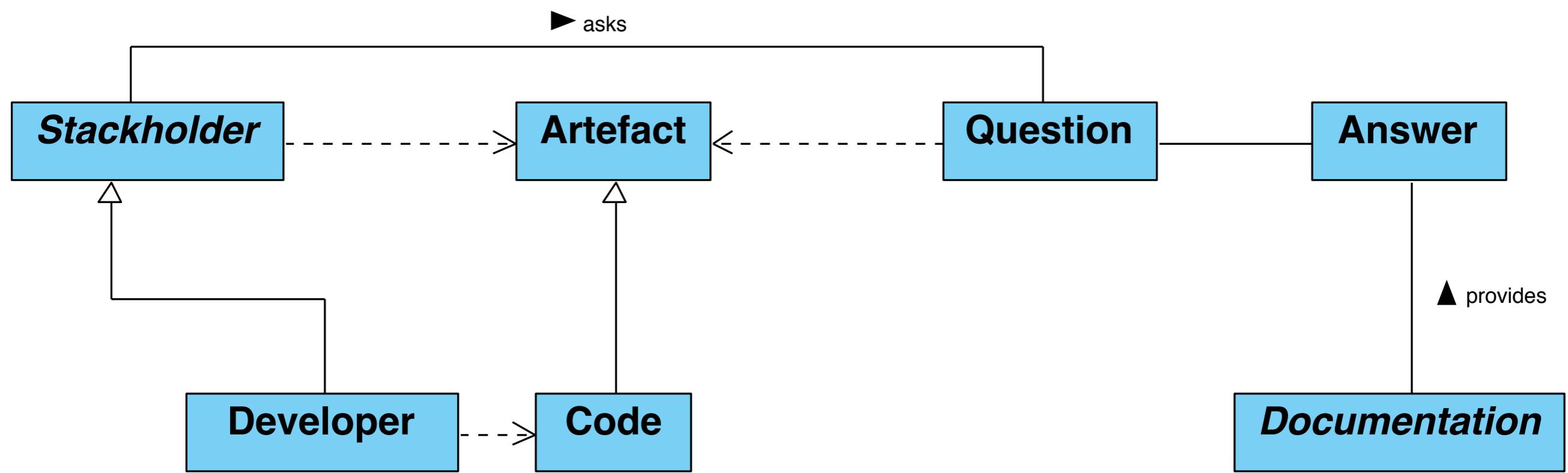
Interface segregation principle

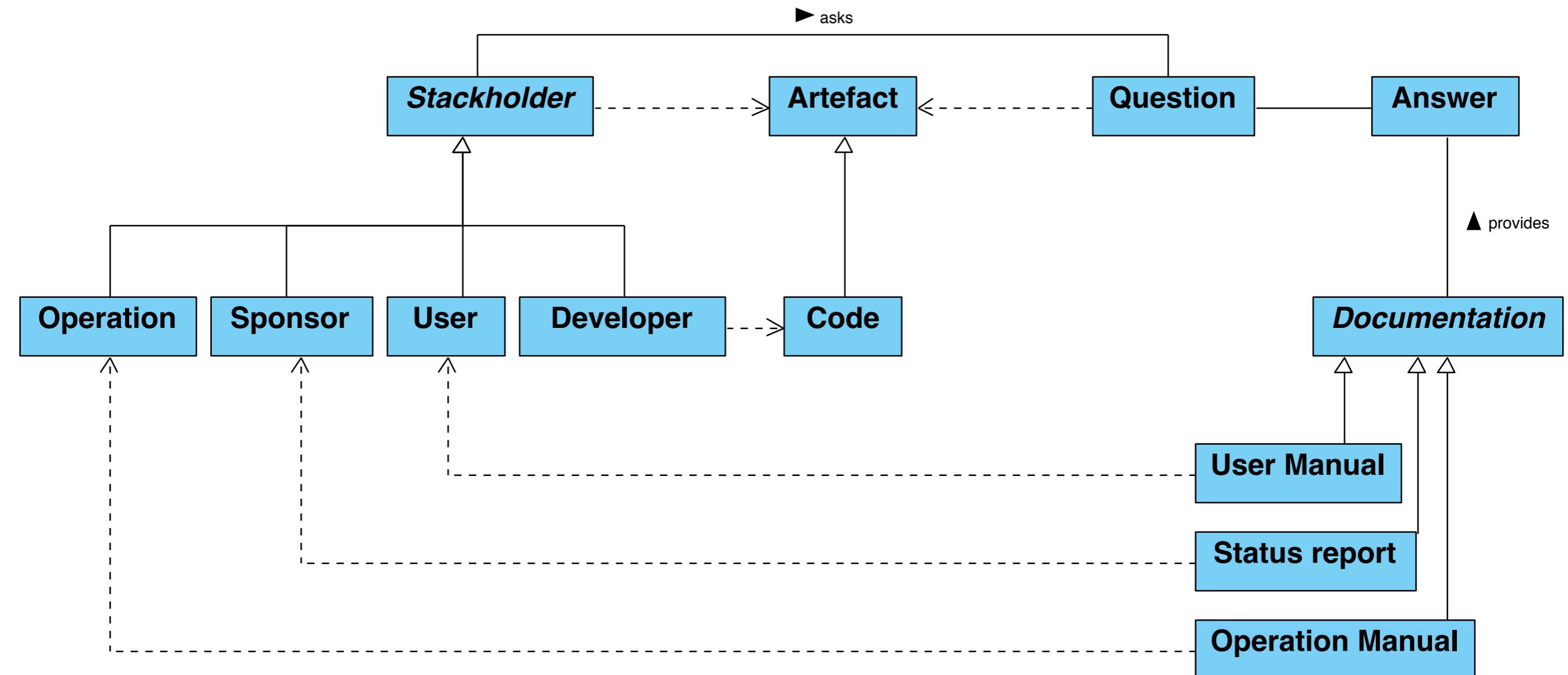
Design principles

Open-closed principle

Separation of concerns

High cohesion





Same level of abstraction

Low coupling

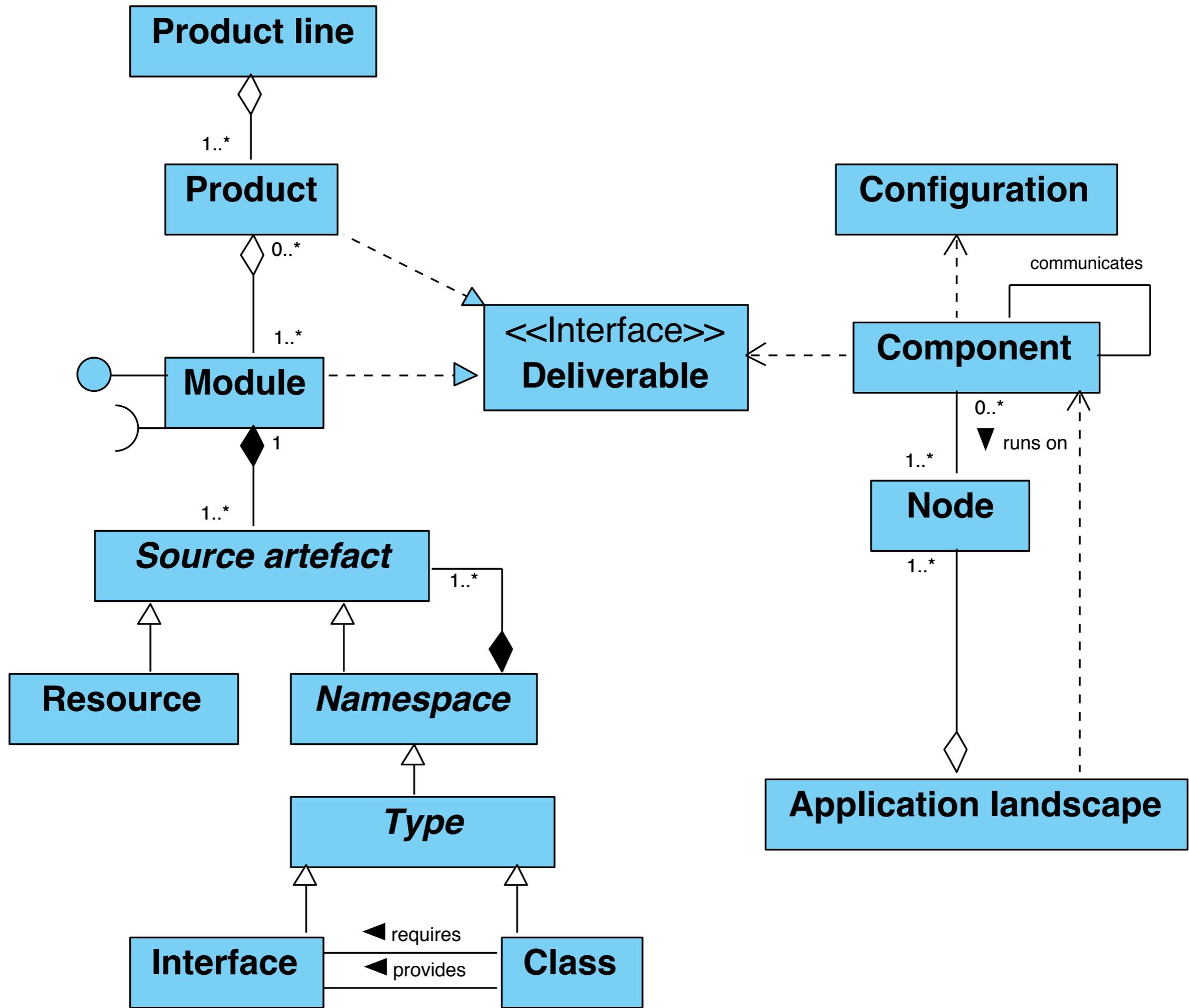
Interface segregation principle

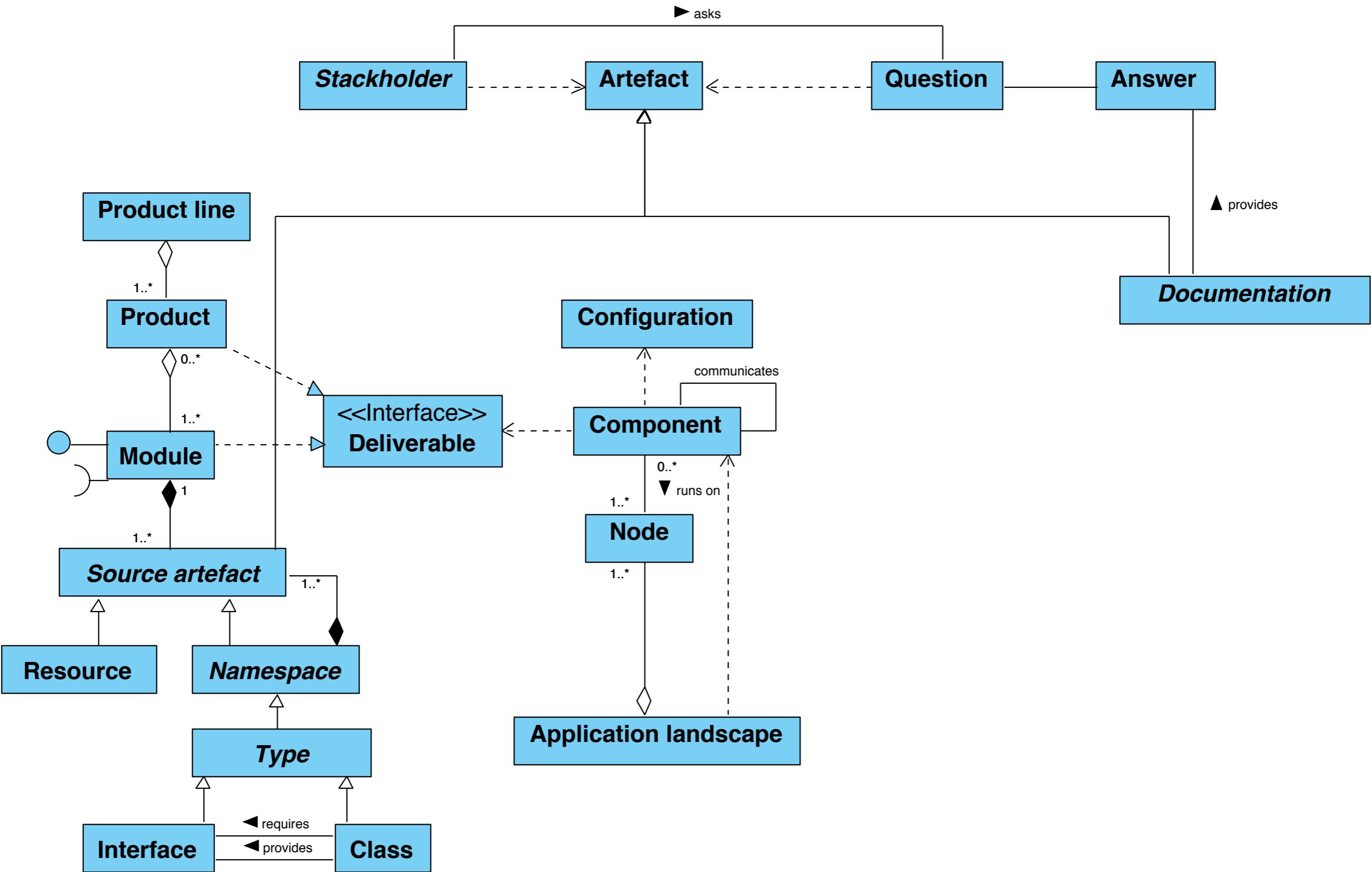
Design principles

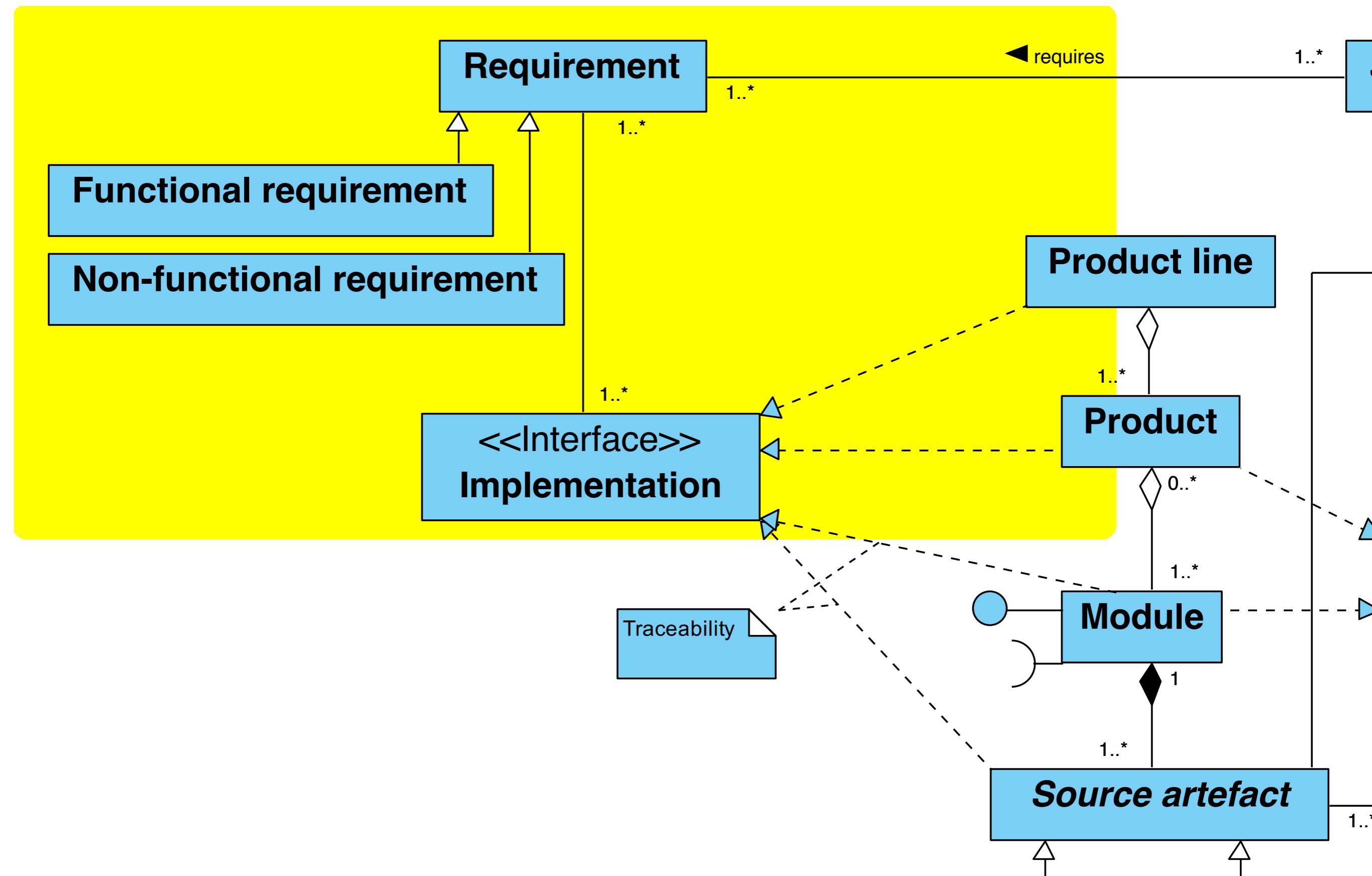
Open-closed principle

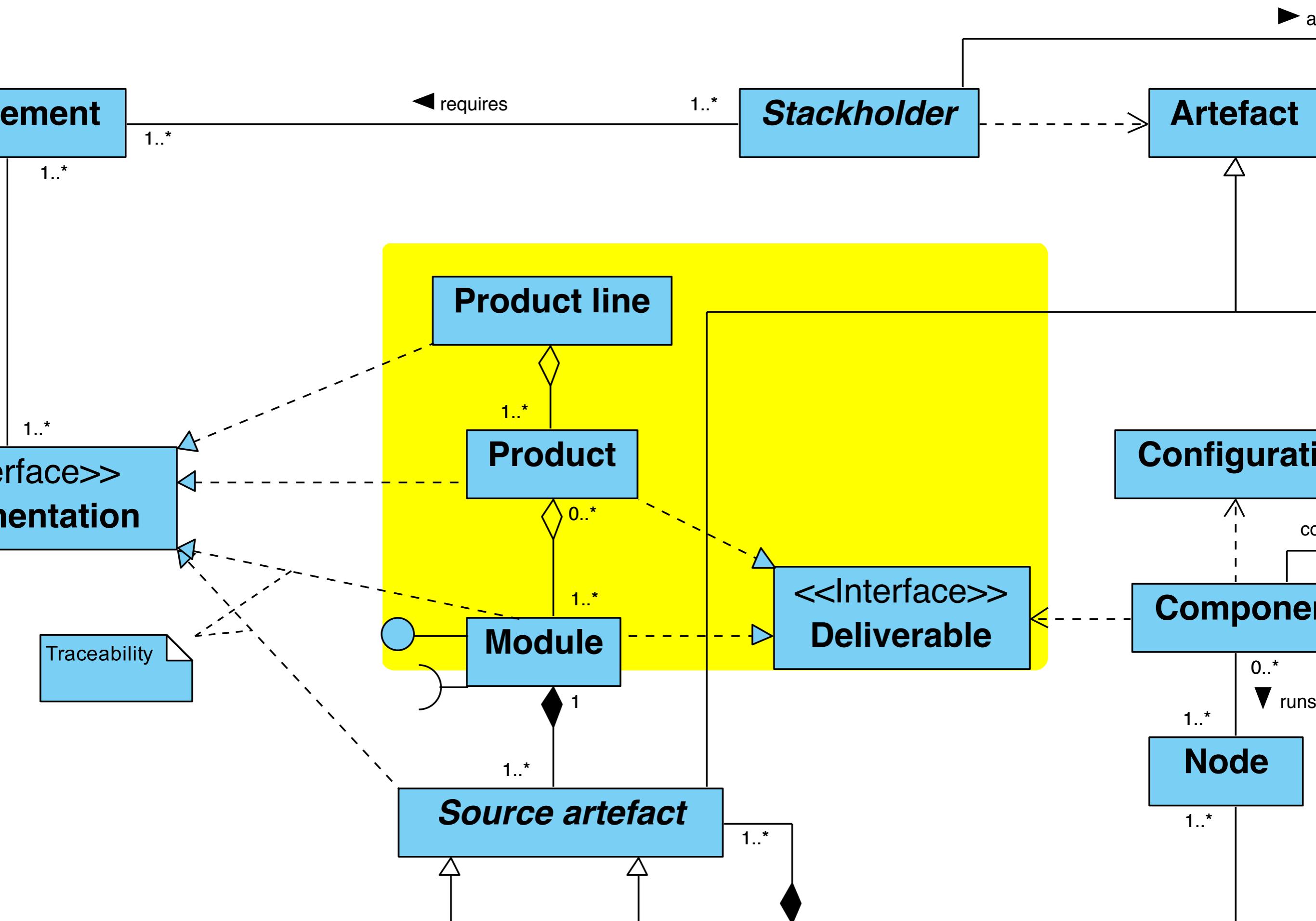
Separation of concerns

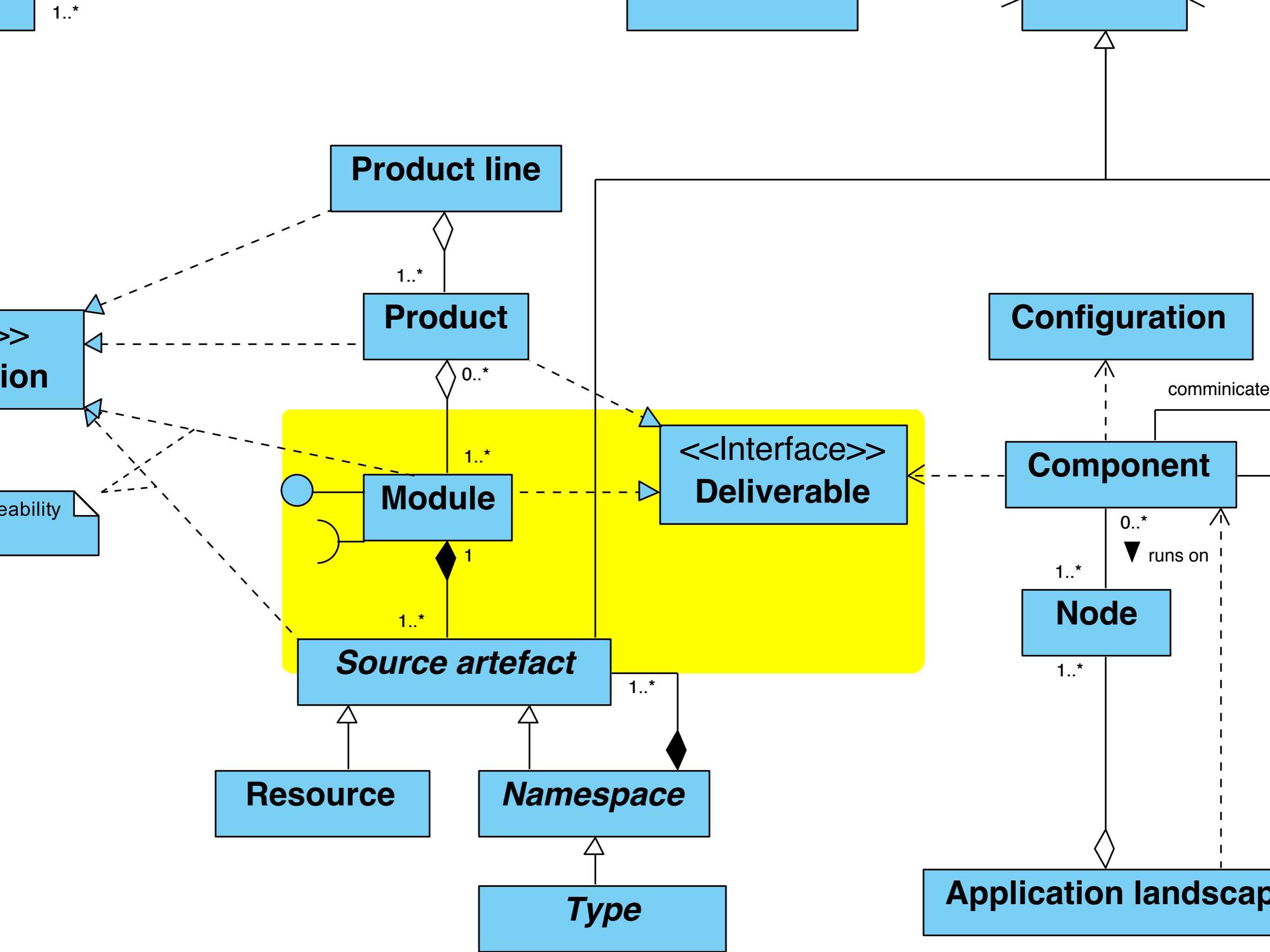
High cohesion

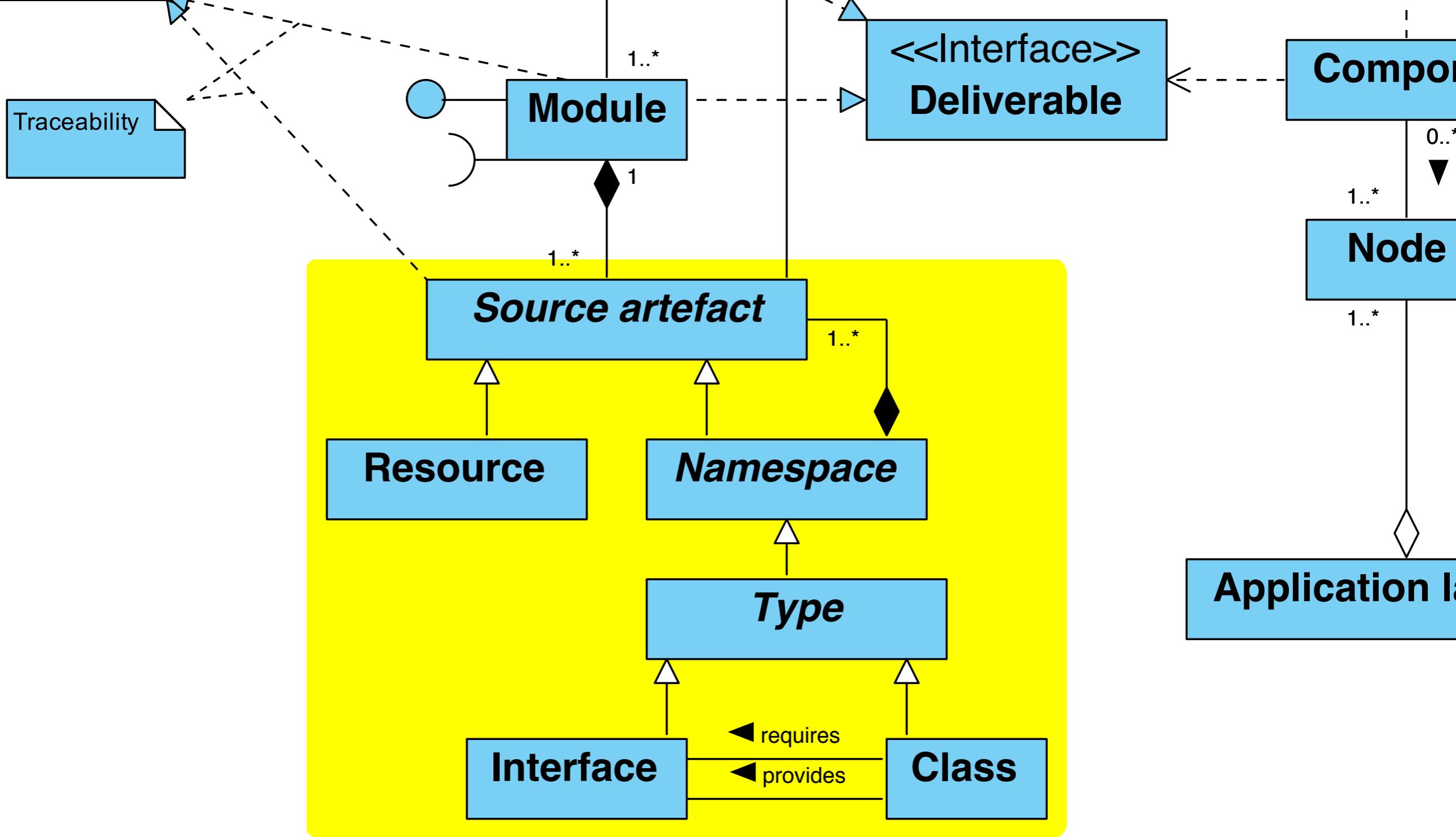


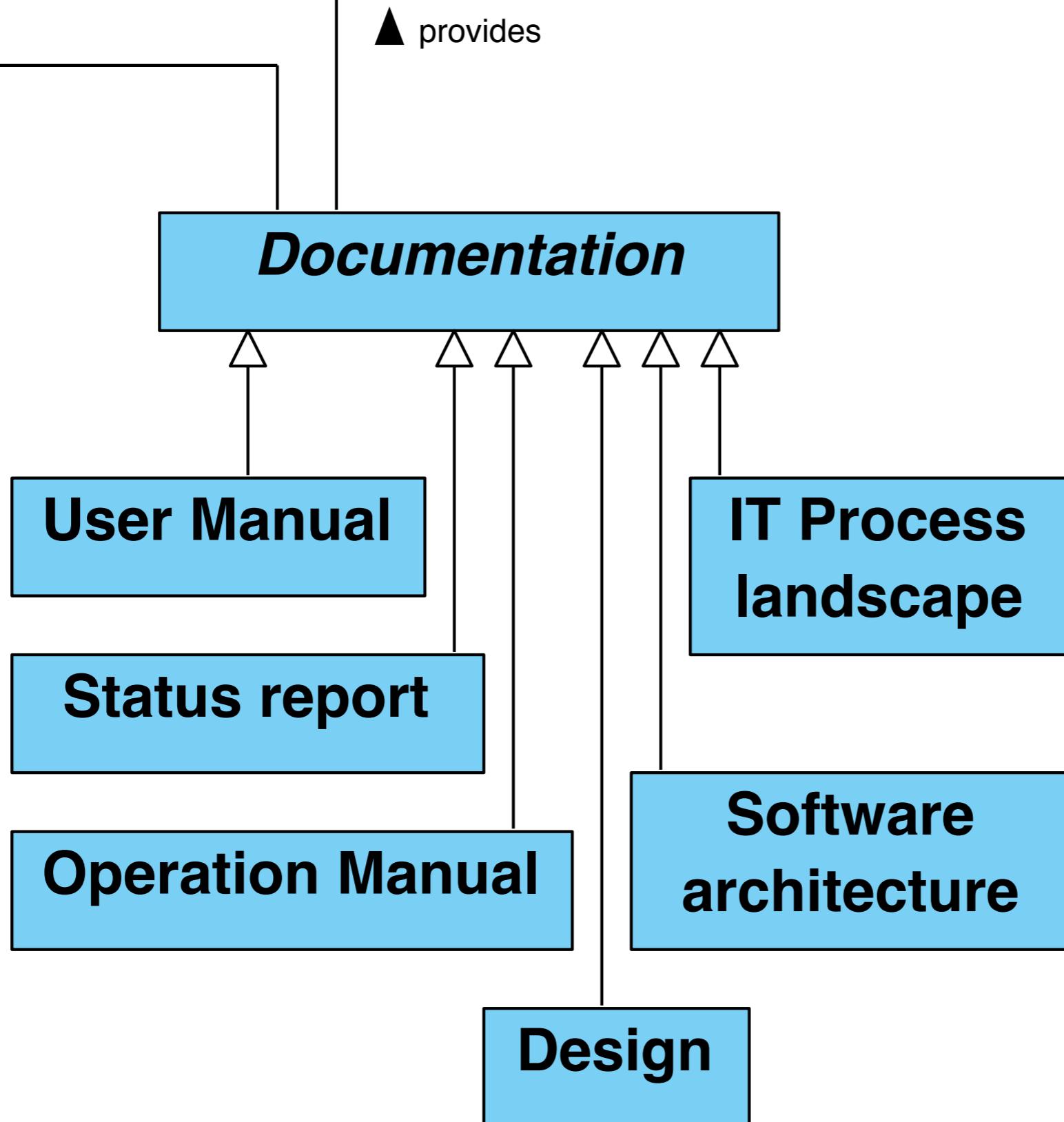












IT Process landscape

Document history

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3 Non-functional requirements

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5 Alternative decomposition

Document history

Update

Version	Description	Date	Author(s)
0.0	Document creation	3.4.2009	Hans Muster
0.1	Enhancement of chapter 5.1	7.4.2009	Reto Meier
0.2	Chapter 5.3 introduced	8.4.2009	Reto Meier
1.0	Release after board review	16.4.2009	Peter Chef
1.1	Chapter 7 changed due to CR123456	1.5.2009	Lukas Herbst
1.2	Rework of chapter 9 due to change of user case « invoice »	14.5.2009	Montag Mueller

Release / approval

Version	Released chapters	Board	Date
1.0	Chapter 1-5	AR	16.4.2009

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1.4 References

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1.4 Document references

[Concept foo] Elaboration and conception product Foo

[Module bar] Conception of module Bar

1.4 Document references

[Concept foo] Elaboration and conception product Foo, **version 1.4**
<intranet>/products/foo.doc

[Module bar] Conception of module Bar, **version 2.89**
<intranet>/modules/bar.doc

IT Process landscape

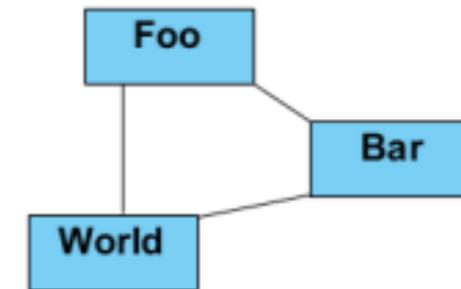
1.2 Target audience

1.3 Prerequisites

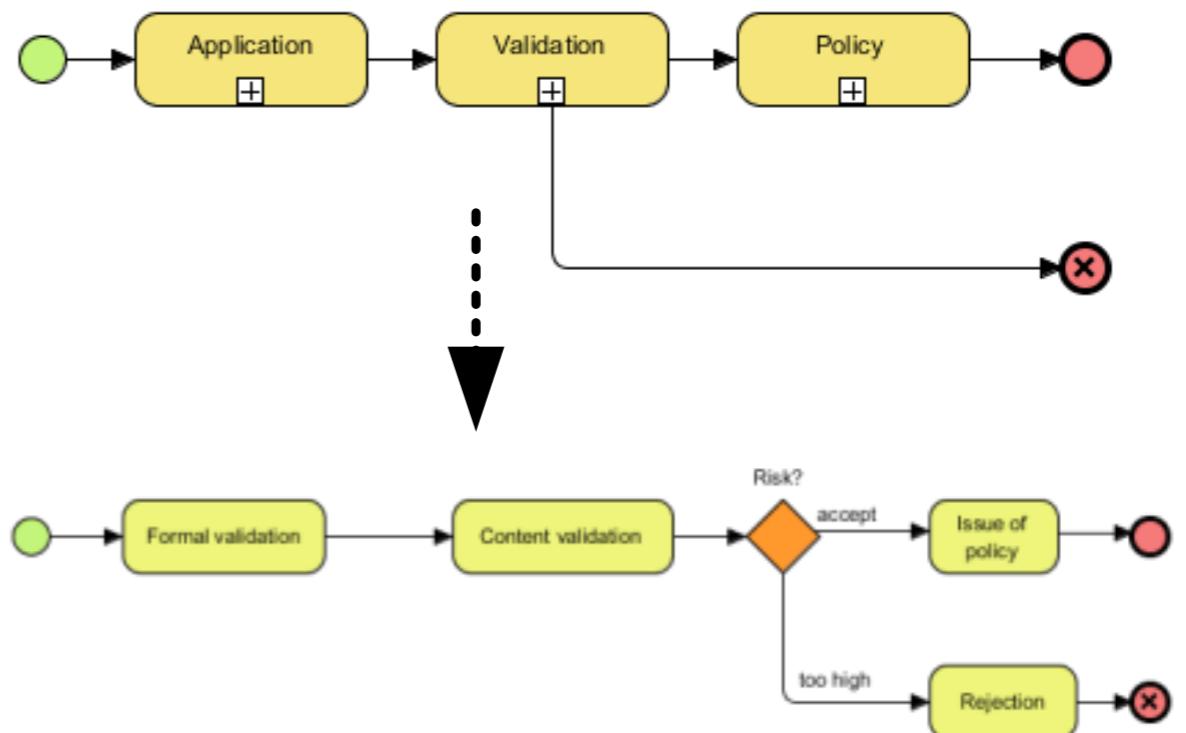
1.4 References

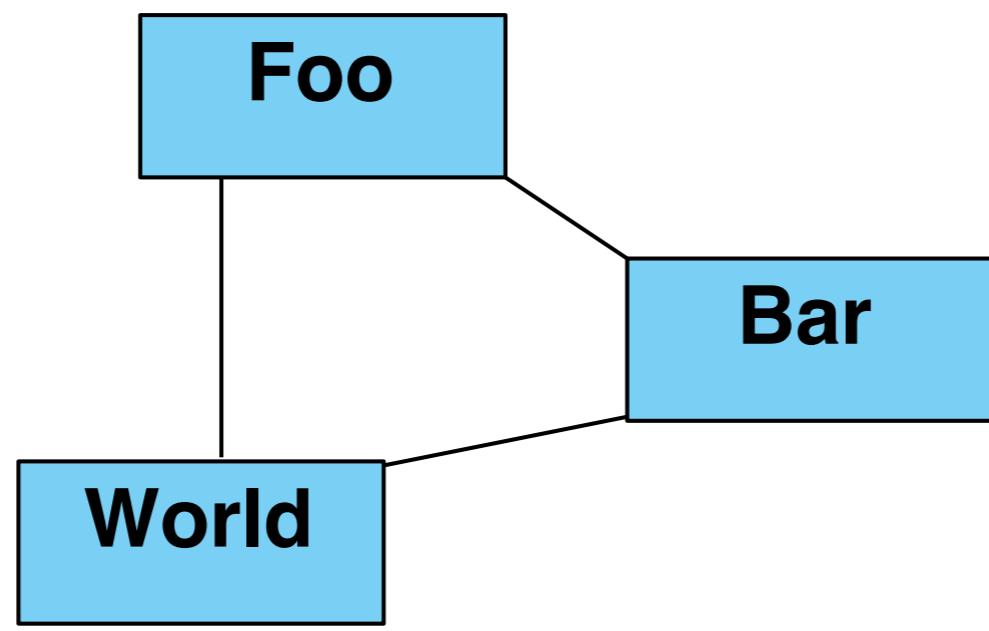
2 Functional requirements

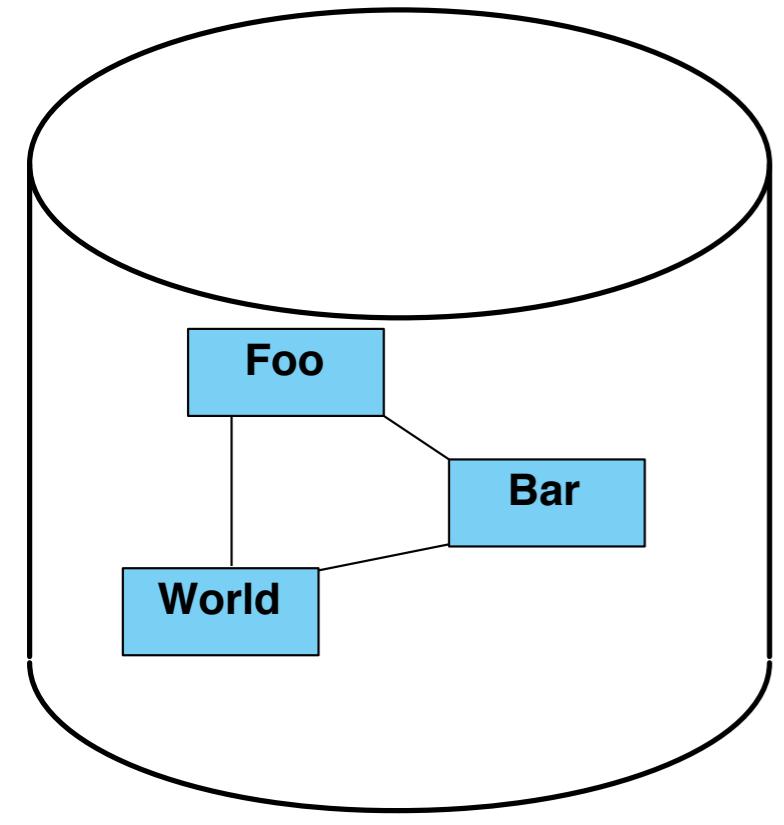
2.1 Domain model



2.2 Process



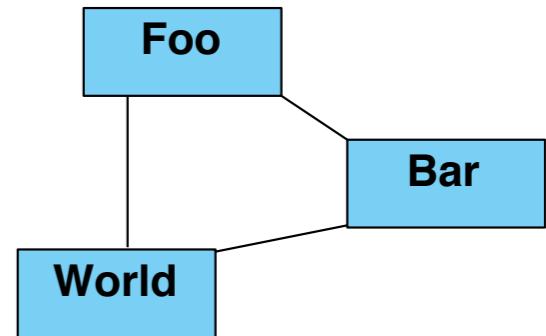




Repository

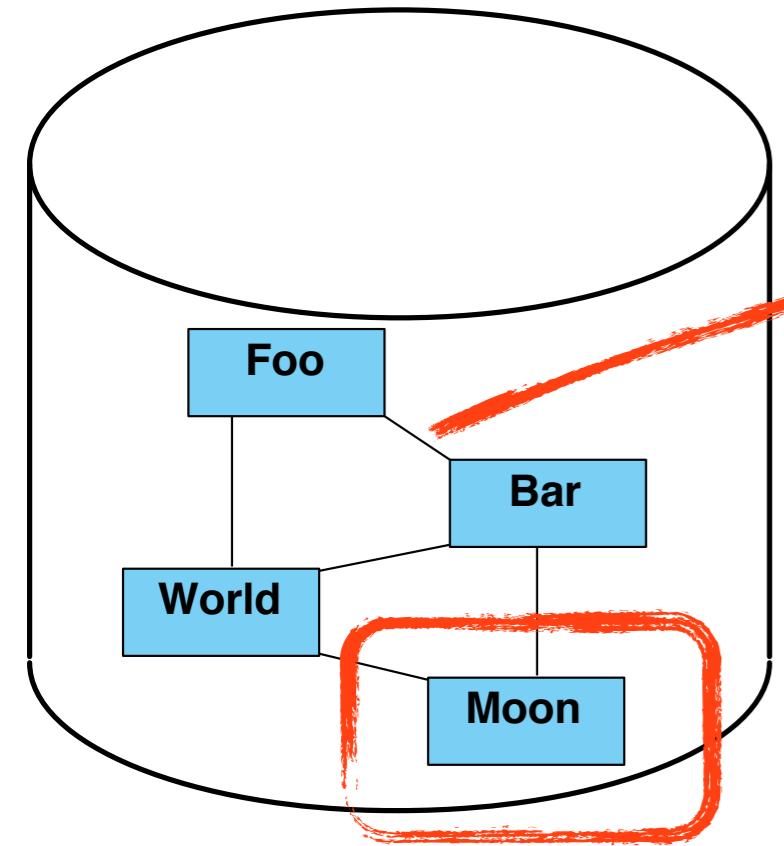
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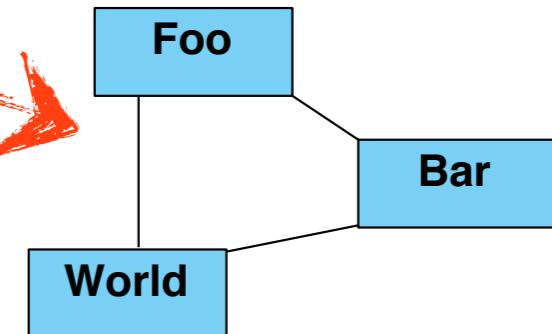


?

Repository

4.5 Lorem ipsum

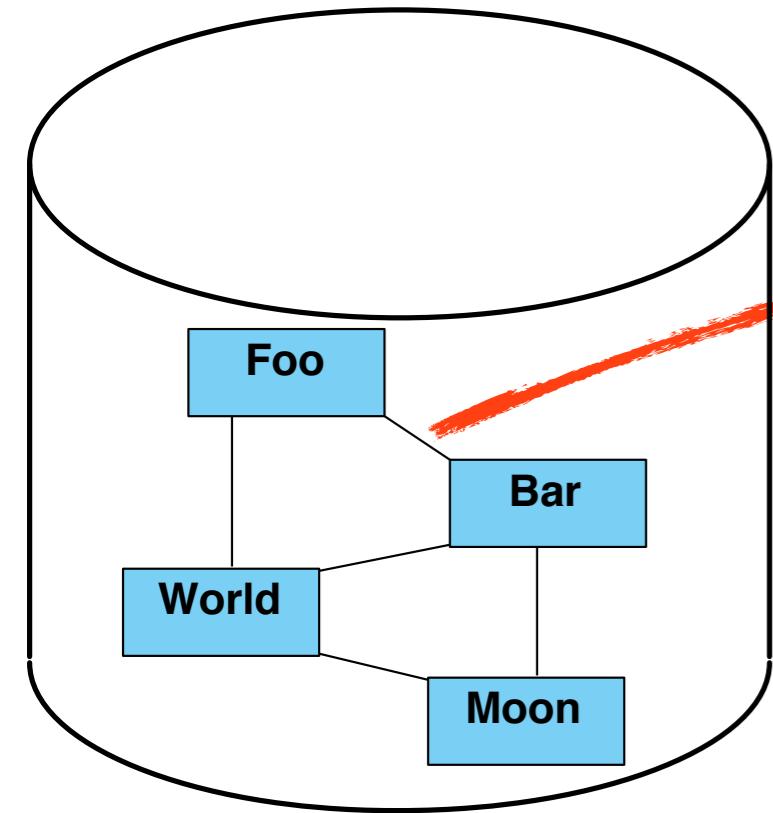
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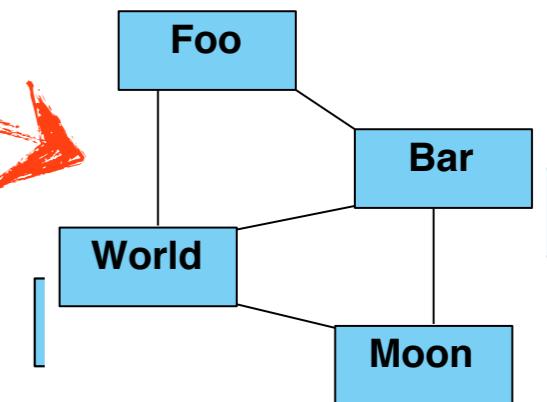
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Repository

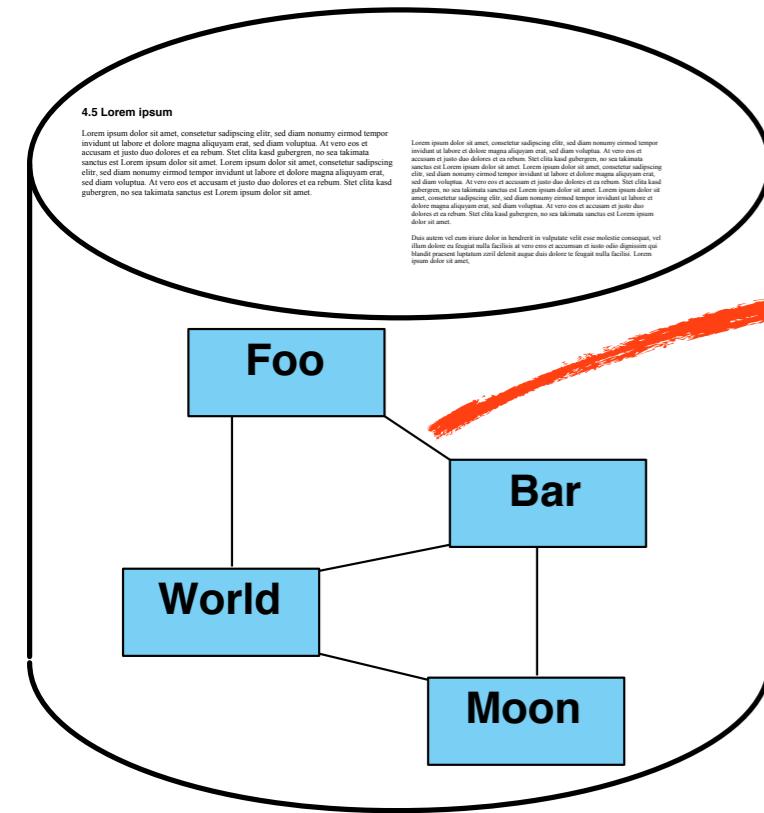
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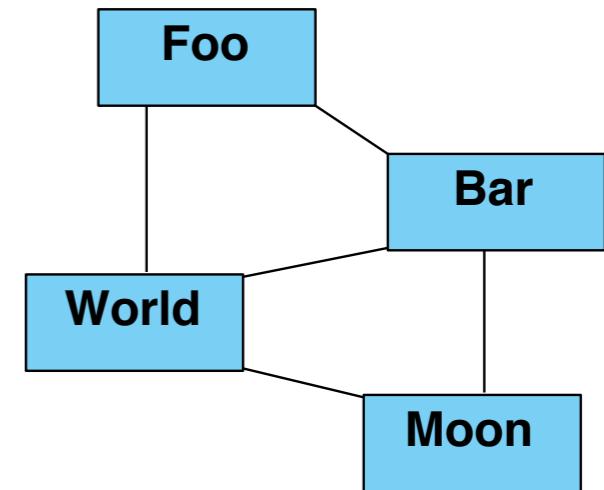
generate



Template

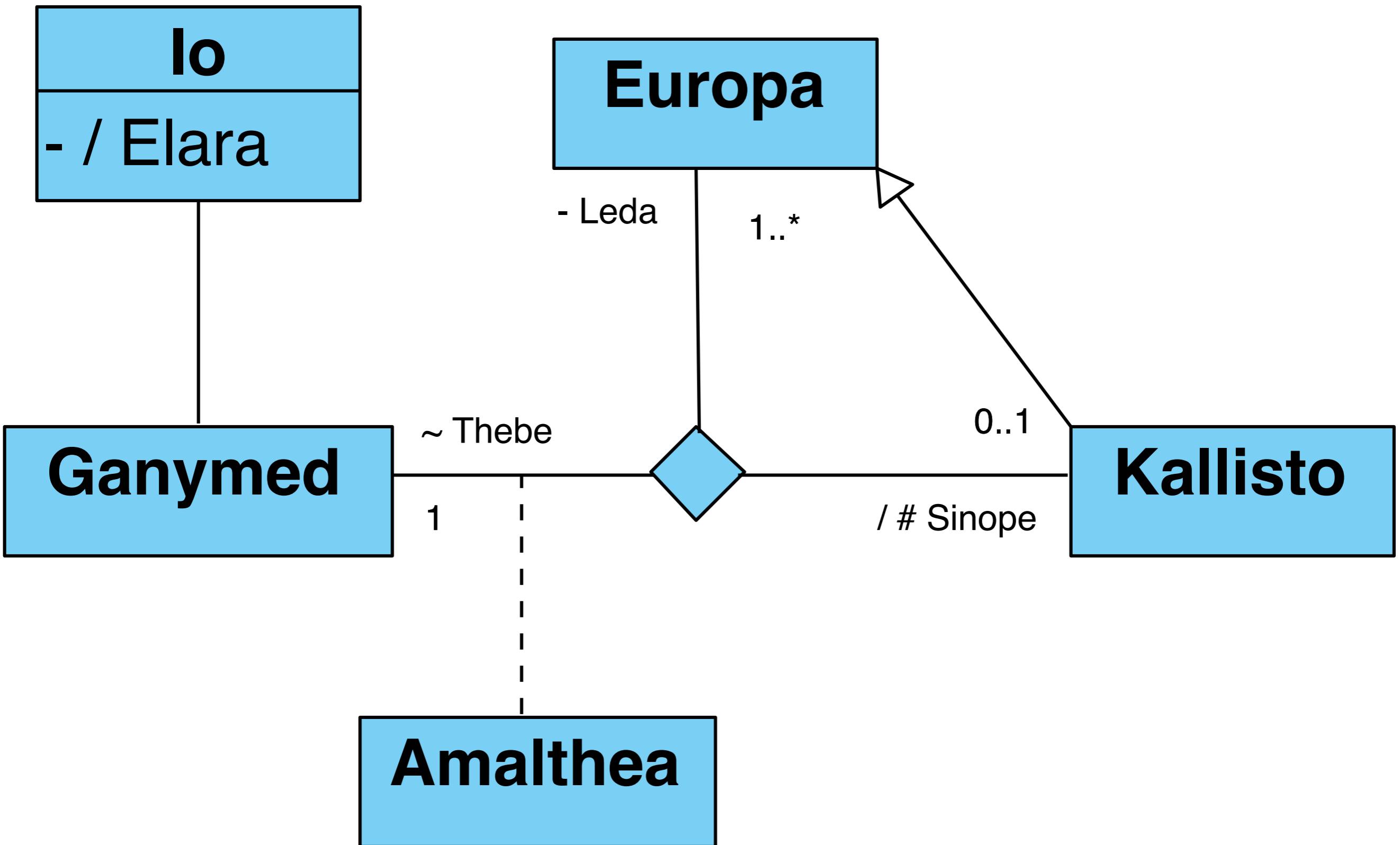
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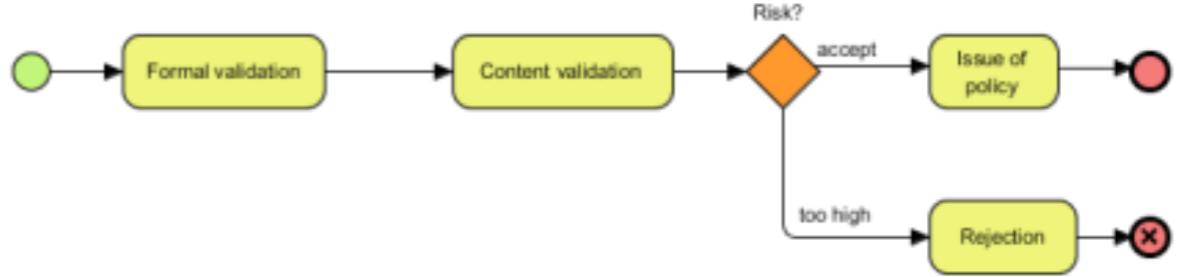
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Key: UML

IT Process landscape

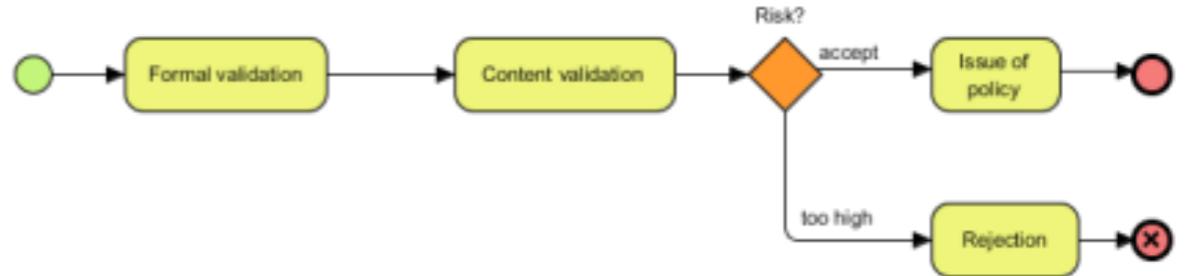


3 Non-functional requirements

4 Product decomposition

5 Alternative decomposition

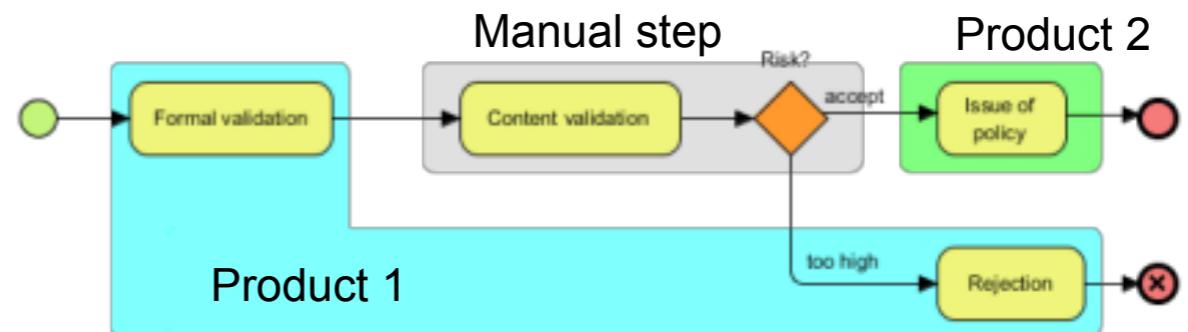
IT Process landscape



3 Non-functional requirements

4 Product decomposition

4.1 Products



4.2 Rationale

4.3 Consequences

5 Alternative decomposition



IT Process landscape

4.2 Rationale

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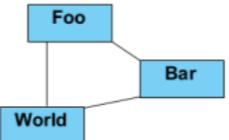
1.2 Target audience

1.3 Prerequisites

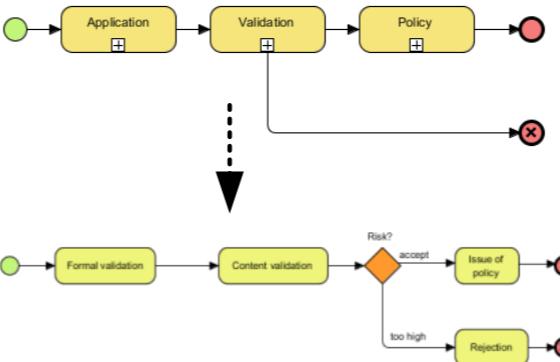
1.4 References

2 Functional requirements

2.1 Domain model



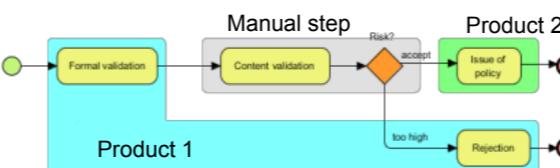
2.2 Process



3 Non-functional requirements

4 Product decomposition

4.1 Products

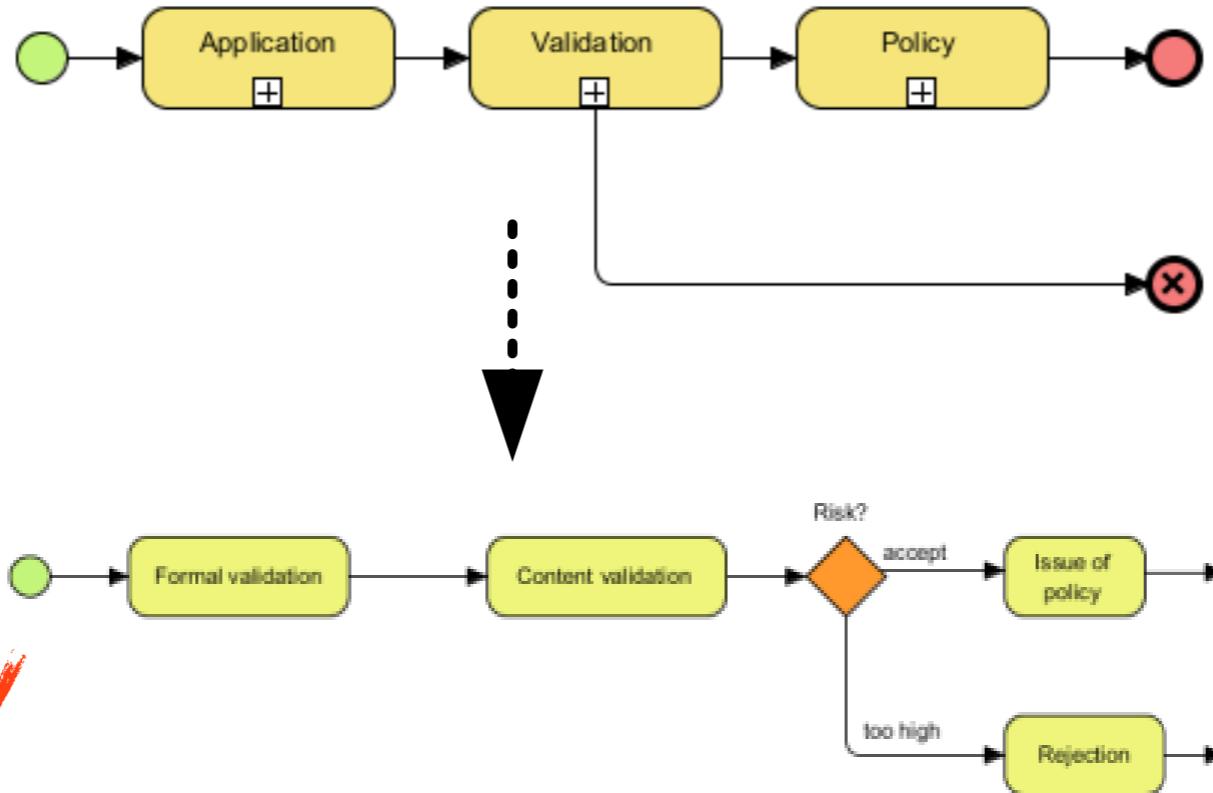


4.2 Rationale

4.3 Consequences

5 Alternative decomposition

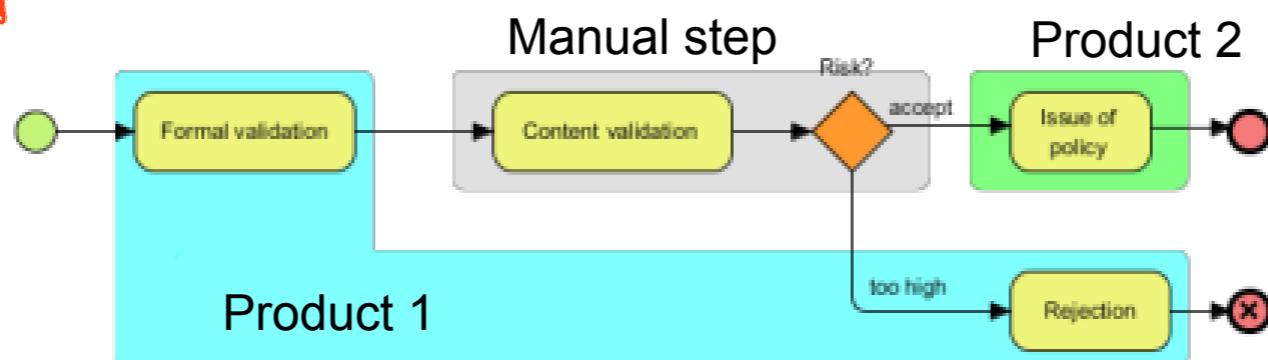
IT Process landscape



3 Non-functional requirements

4 Product decomposition

4.1 Products



4.2 Rationale

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7 Alternative module decomposition

Software architecture

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Software architecture

1.2 Target audience

1.3 Prerequisites

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6 Module interaction

7 Alternative module decomposition

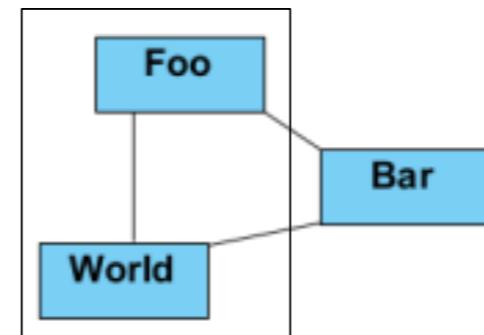
1.3 Prerequisites

1.4 References

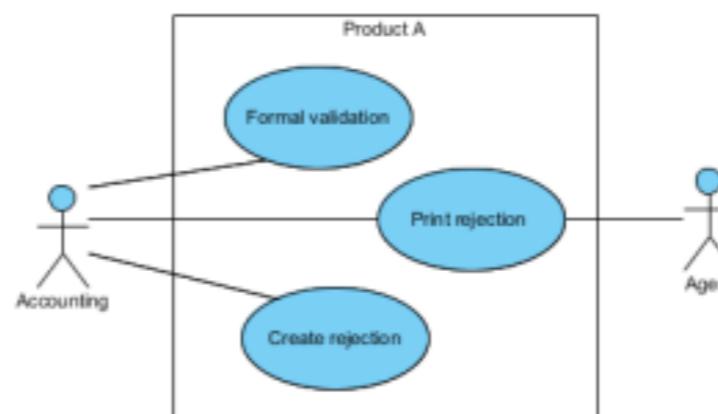
2 Context

3 Functional requirements

3.1 Analysis model

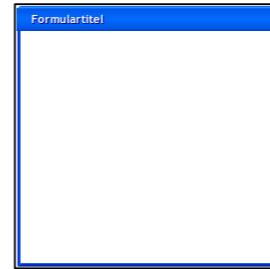


3.2 Use cases



3.4 UI

3.4 UI



4 Non-functional requirements

4.1 Usability

4.2 Quantity structure

4.3 Performance

4.4 Scalability

4.5 Availability

4.6 Restart capability

4.7 Locking/Concurrency Strategy

4.9 Transaction behavior

4.10 Portability

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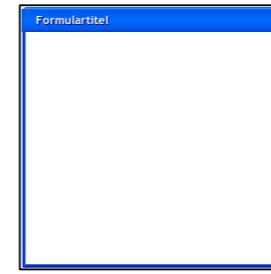
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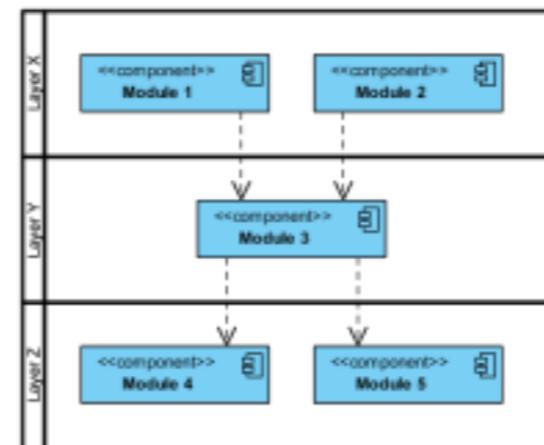
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4 Non-functional requirements

5 Architecture

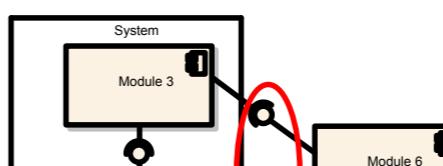
5.1 Module decomposition, layers



5.2 Rationale

5.3 Consequences

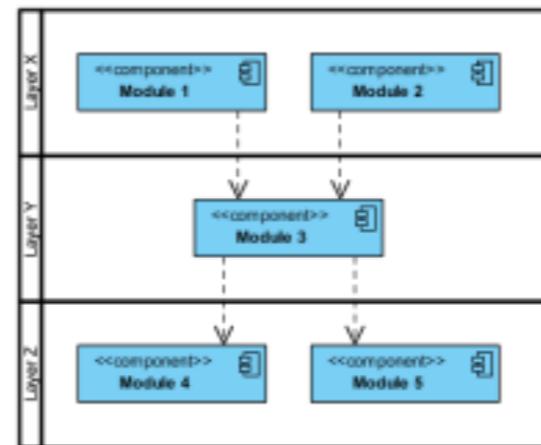
5.4 Interfaces



4 Non-functional requirements

5 Architecture

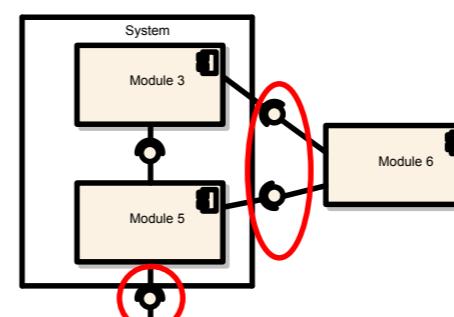
5.1 Module decomposition, layers



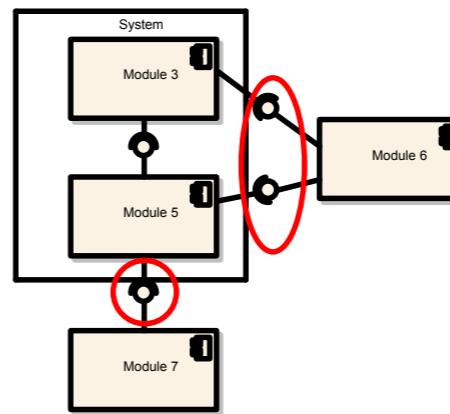
5.2 Rationale

5.3 Consequences

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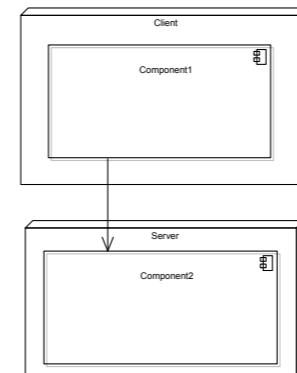
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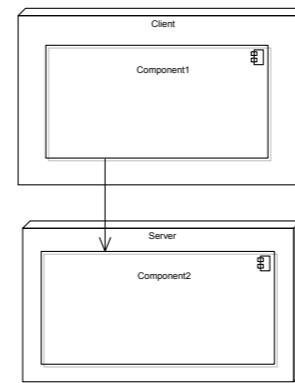
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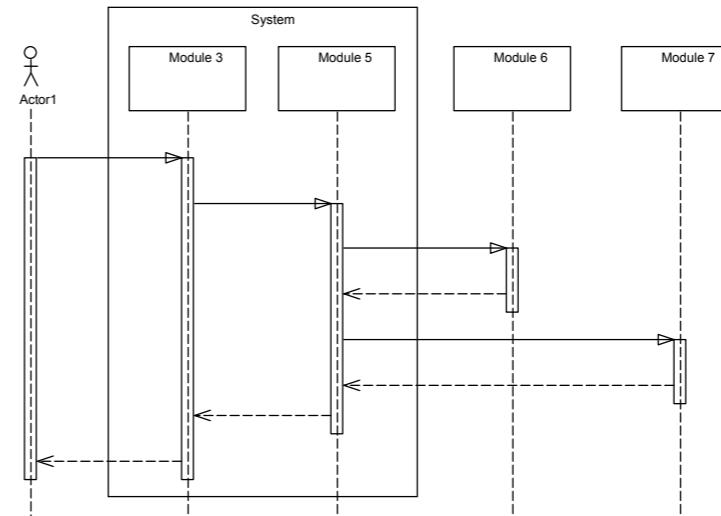
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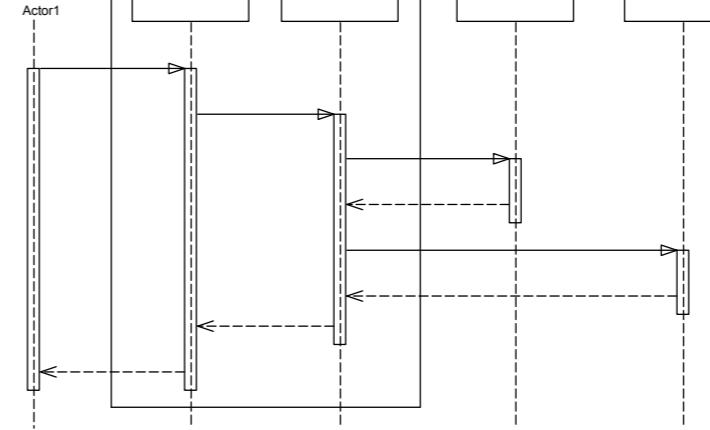


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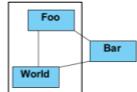
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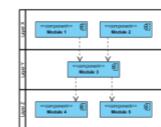
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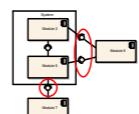
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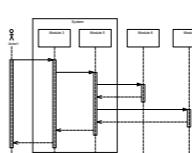
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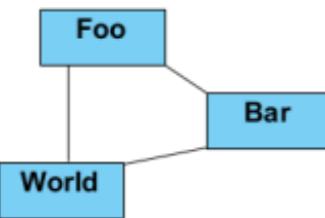


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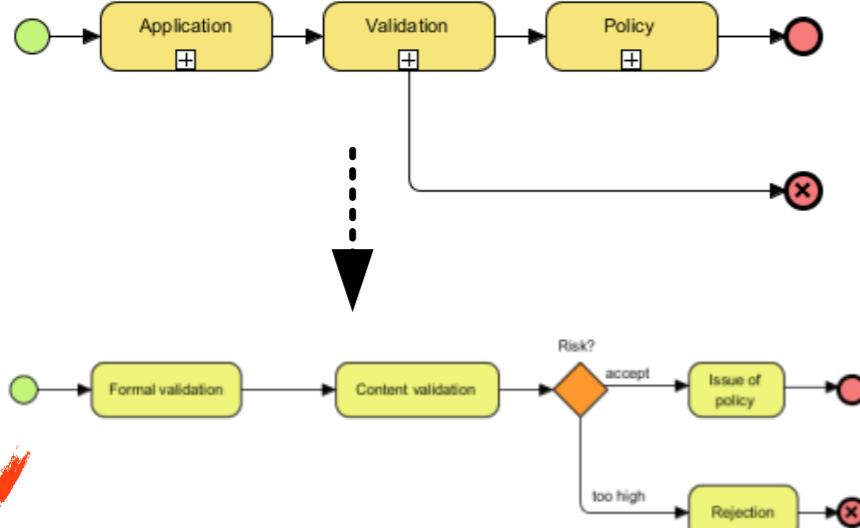


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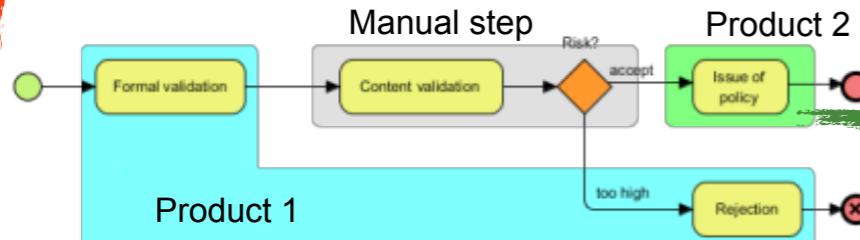
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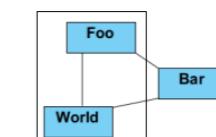
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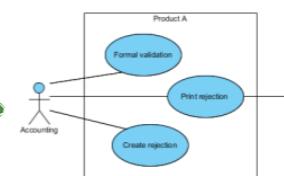
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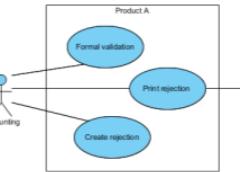


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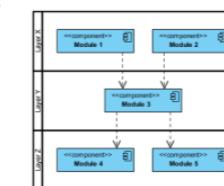
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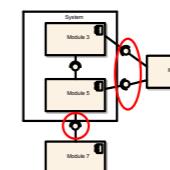
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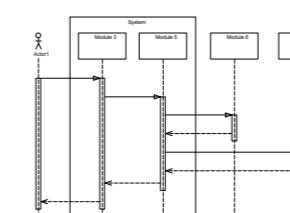
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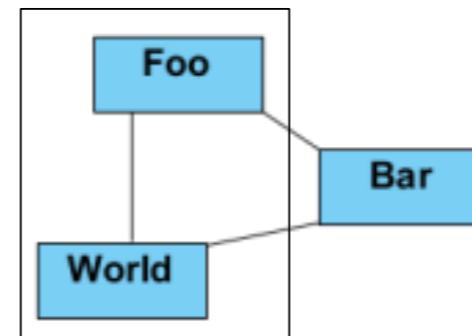
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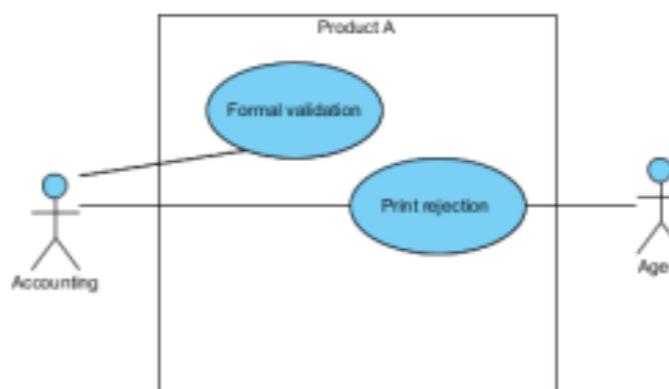
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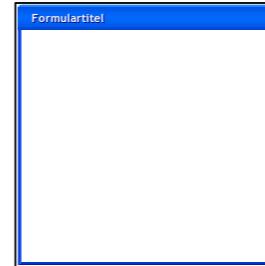
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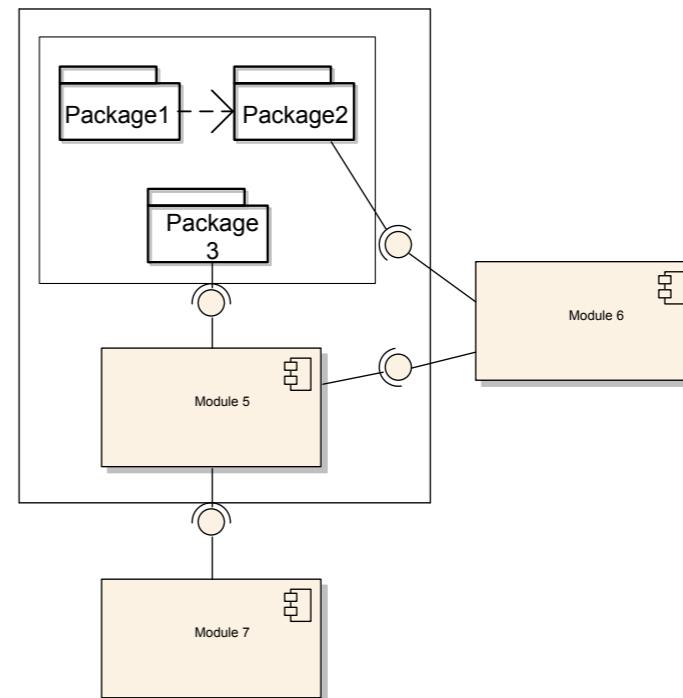
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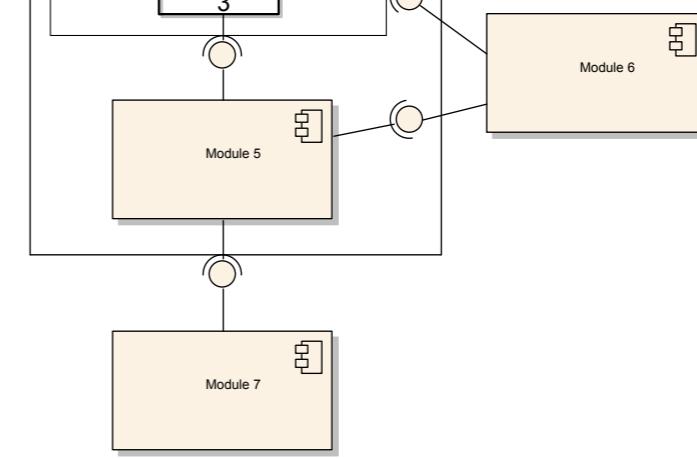
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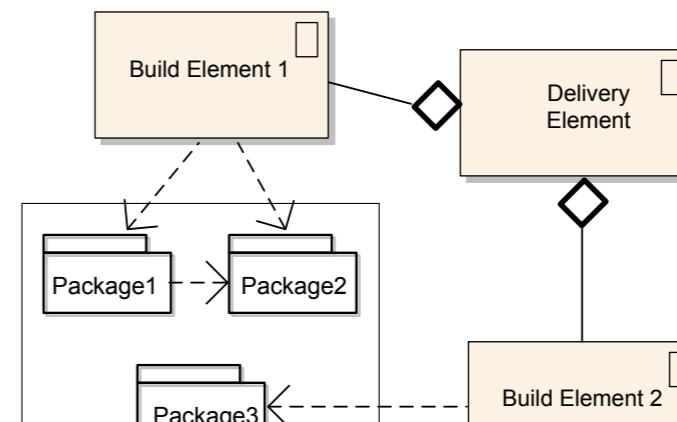
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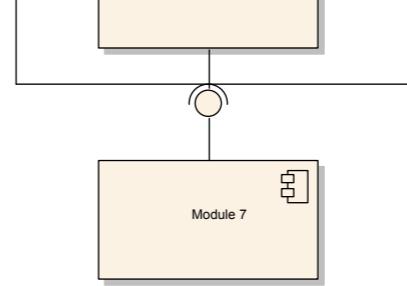
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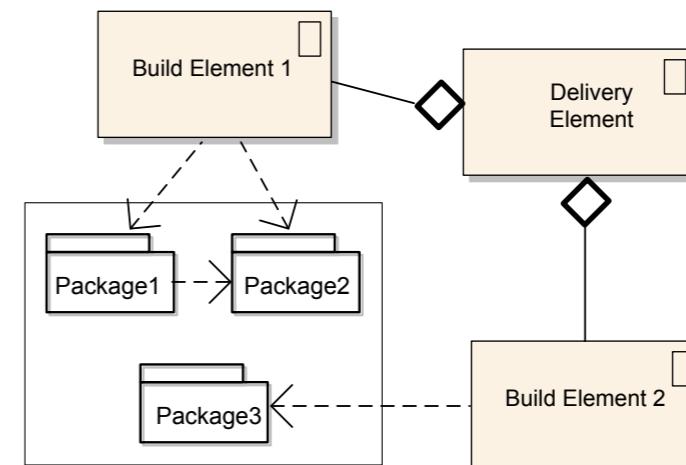
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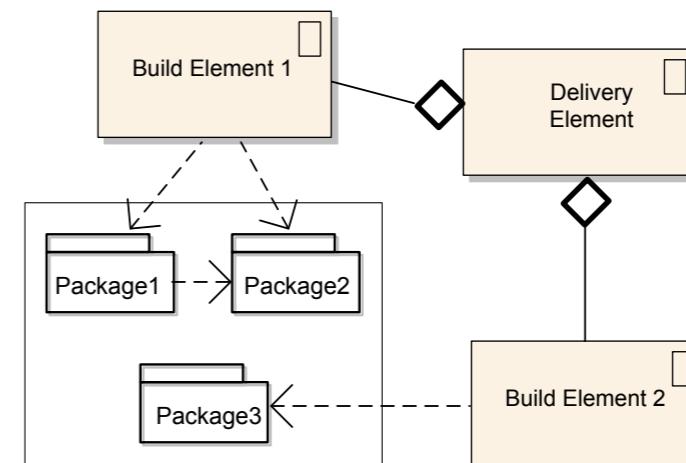
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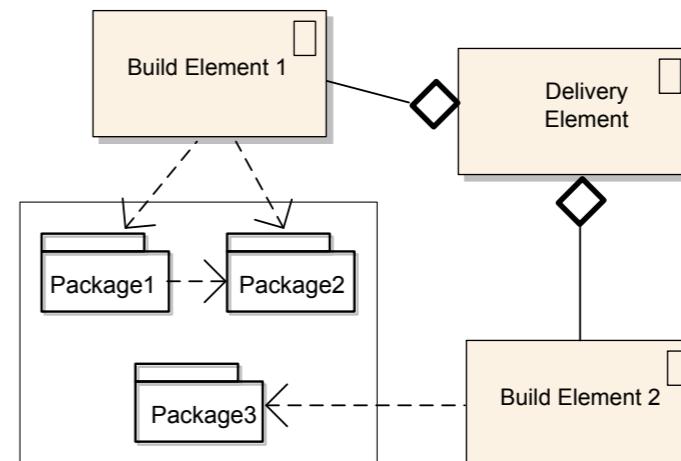
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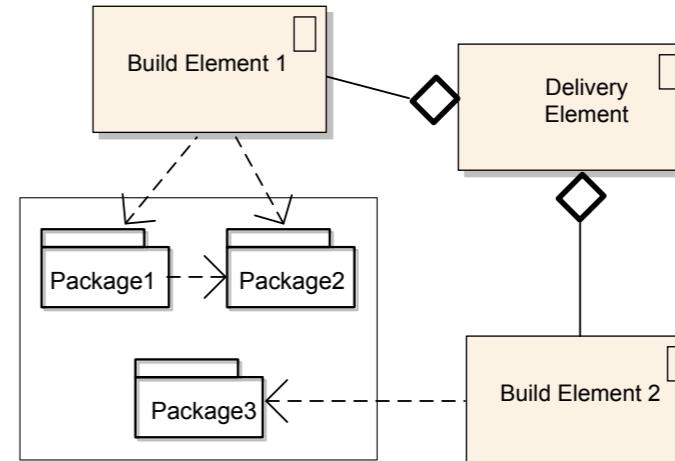
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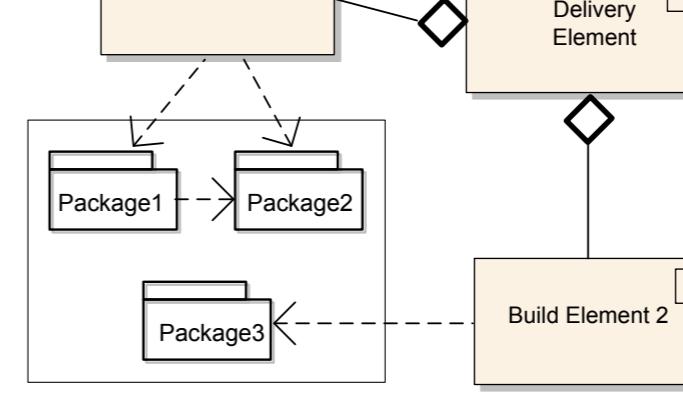


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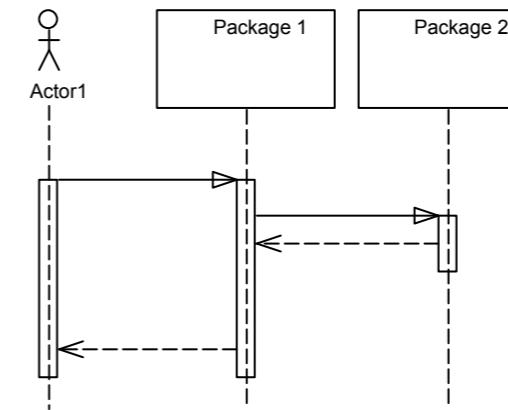
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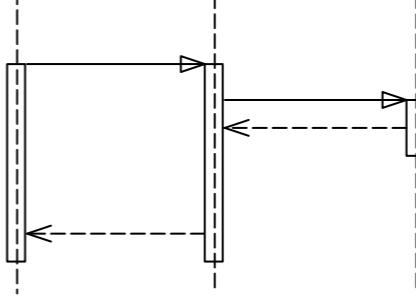
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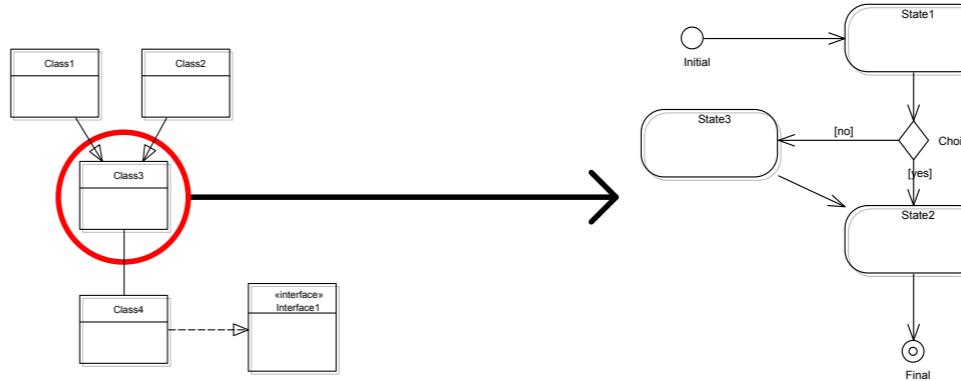
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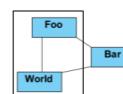
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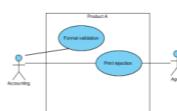
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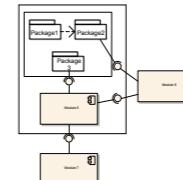
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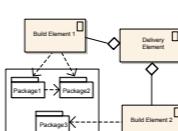
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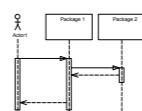
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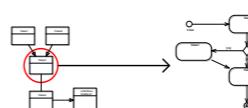


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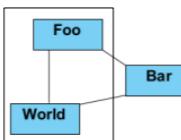
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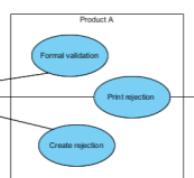


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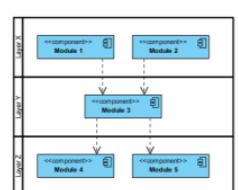
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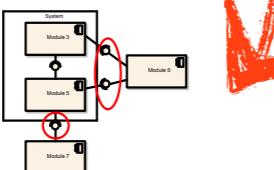
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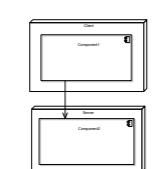
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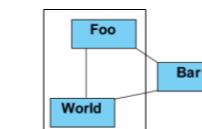
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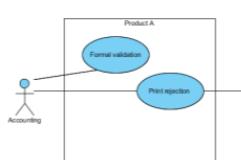
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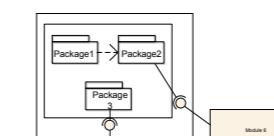
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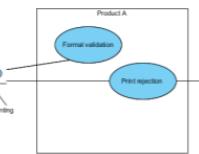
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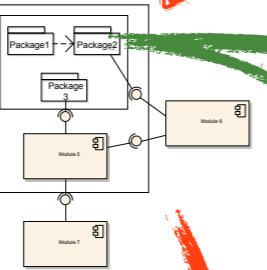
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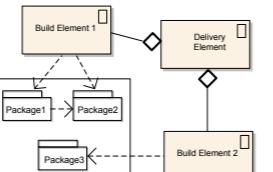
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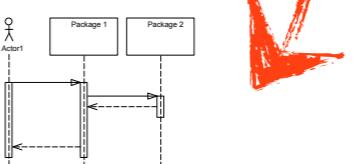
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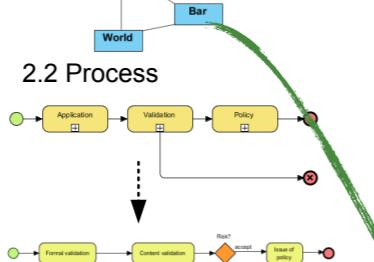
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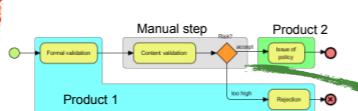
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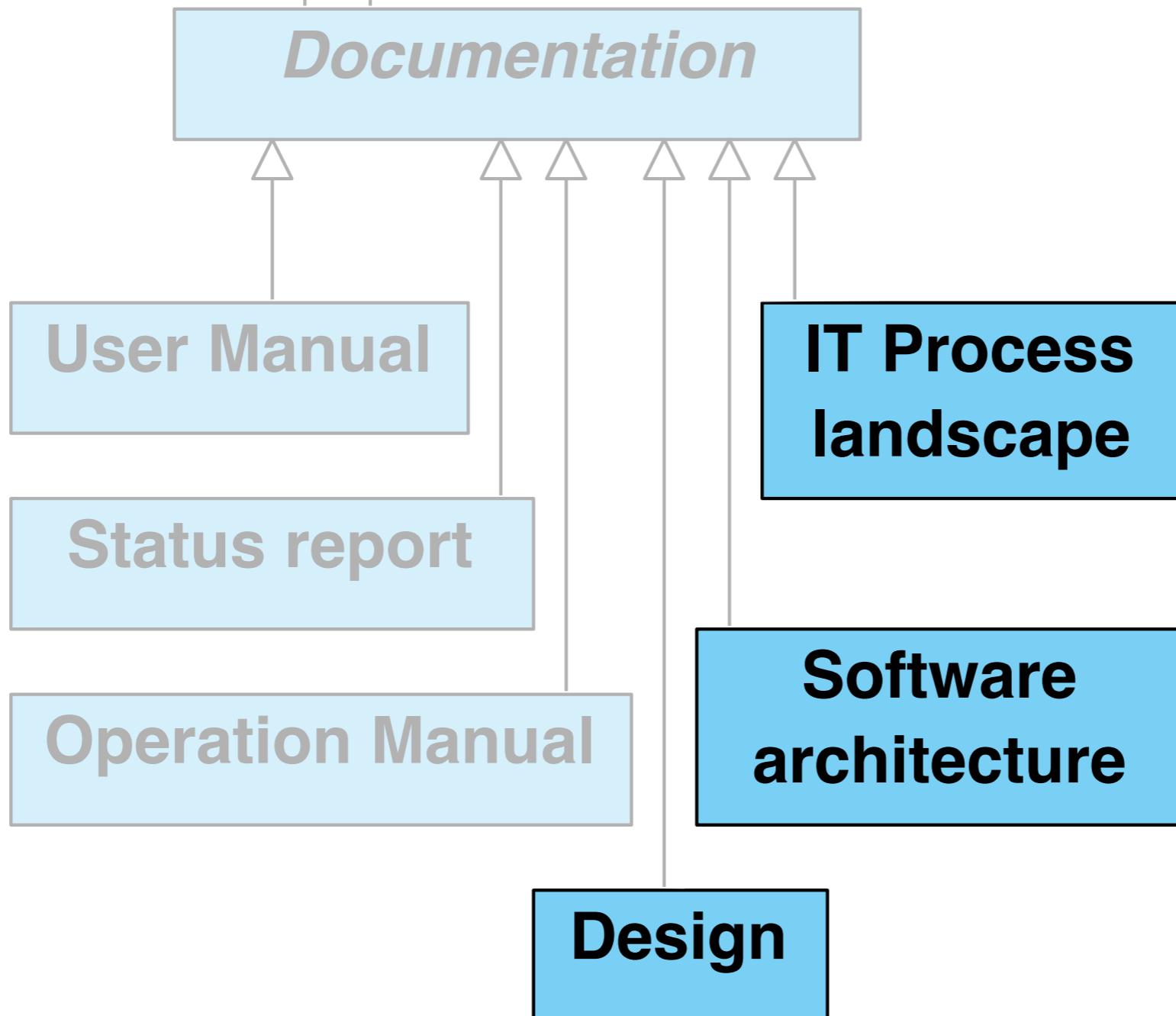
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 - + ➔  312_Workshops

**select from documents where
documentClass='Test-specification' and
element='Module X'**

**select from documents where
documentClass='Software-architecture' and
element='Product Y'**

Type	Title	Version	Status	Iteration	Discipline	Document class	Product/Module
Document class : Cookbook (2)							
	Cookbook for module X	0.6	Draft	(None)	Implementation	Cookbook	Module X
	Cookbook for module Z	0.6	Draft	(None)	Implementation	Cookbook	Module Z
Document class : Design (2)							
	Design module Z	1.0	Released	(None)	Design	Design	Module Z
	Design module X	0.5	Review	(None)	Design	Design	Module X
Document class : Release notes (2)							
	Release notes module X C17	0.6	Draft	(None)	Implementation	Release notes	Module X
	Release notes module Y C17	0.6	Draft	(None)	Implementation	Release notes	Product Y
Document class : Requirements (1)							
	Requirements product Y use cases	1.0	Released	(None)	Implementation	Requirements	Product Y
Document class : Software architecture (1)							
	Software architecture product Y	3.4	Released	(None)	Architecture	Software architecture	Product Y
Document class : Test-specification (3)							
	Test specification module X	1.0	Released	(None)	Test	Test-specification	Module X
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	Test specification product Y	0.6	Draft	(None)	Test	Test-specification	Product Y
Document class : User manual (1)							
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	Requirements product Y use cases	1.0	Released	(None)	Implementation	Implementation	Requirements	Product Y

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	Cookbook for module Z	0.6	Draft	(None)	Implementation	Cookbook	Module Z
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Documentation plan

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SWA product Y	[SWA_Y]	SWA	Released	3.4	AR	Product Y
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Design module Z	[Design_Z]	Design	Released	1.0	Design	Module Z
Design module Q	[Design_A]	Design	Planed	N/A	Design	Module A
Testing module Z	[Test_Z]	Test-spec	Planed	N/A	Test	Module Z
Testing product Y	[Test_Y]	Test-spec	Planed	N/A	Test	Product Y

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	Design module Z	1.0	Released	(None)	Design	Design	Module Z
	Release notes module X C17	0.6	Draft	(None)	Implementation	Release notes	Module X
	Release notes module Y C17	0.6	Draft	(None)	Implementation	Release notes	Product Y
	Requirements product Y use cases	1.0	Released	(None)	Implementation	Requirements	Product Y
	Software architecture product Y	3.4	Released	(None)	Architecture	Software architecture	Product Y
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	Test specification module Z	0.7	Planned	(None)	Test	Test-specification	Module Z
	Test specification product Y	0.7	Planned	(None)	Test	Test-specification	Product Y
	User manual product Y	0.5	Draft	(None)	Implementation	User manual	Product Y

Same level of abstraction

Low coupling

Interface segregation principle

Design principles

Open-closed principle

Separation of concerns

High cohesion

IT Process landscape

Document history

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Concreteness

Software architecture

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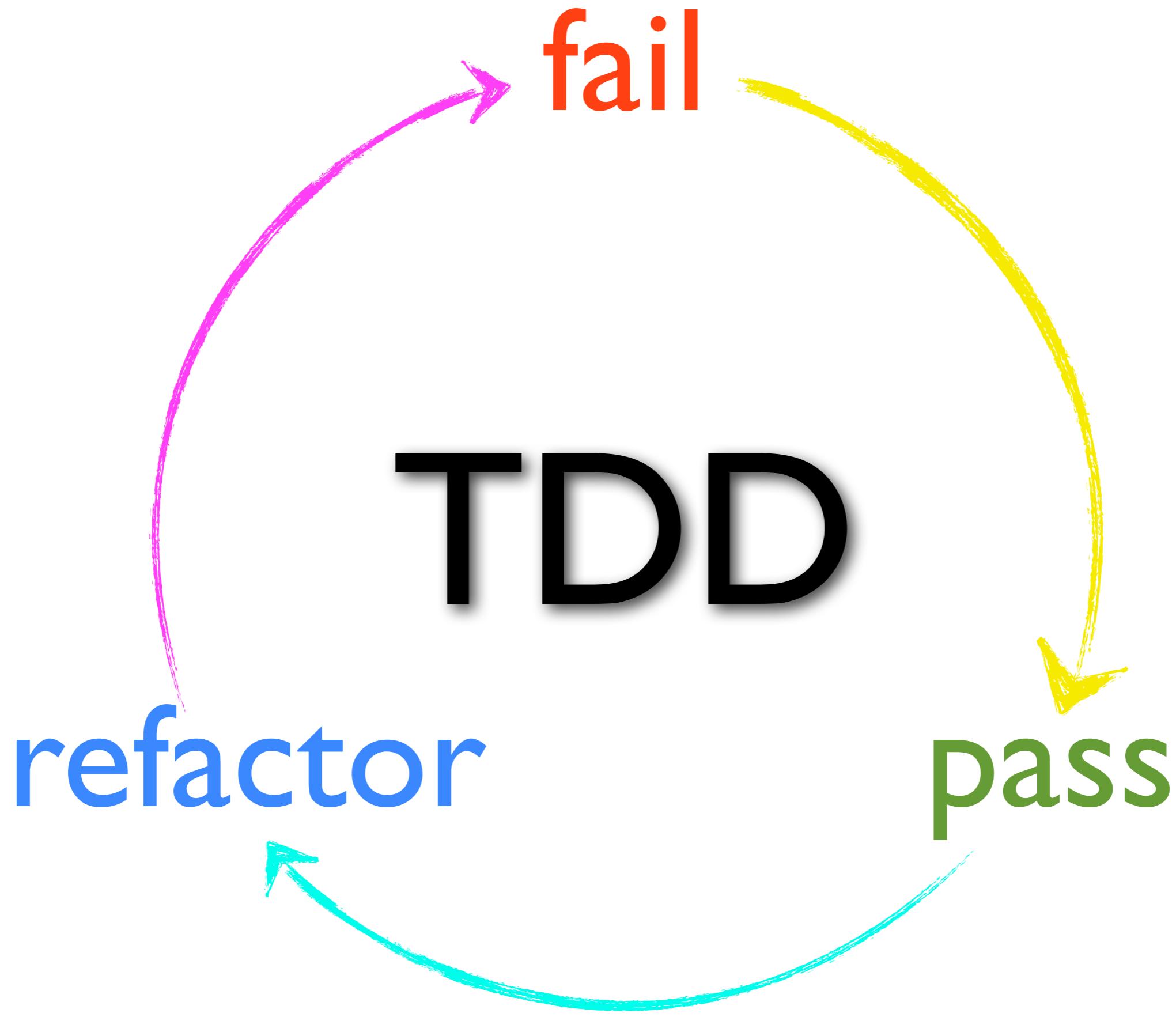
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Adaption

Value oriented

Practical

Customer oriented

Simple

Agile

Iterativ

Incremental

Excellency