

WP04

Architecture Definition

Design of Software Architectures

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WP02 Recap: Software architecture

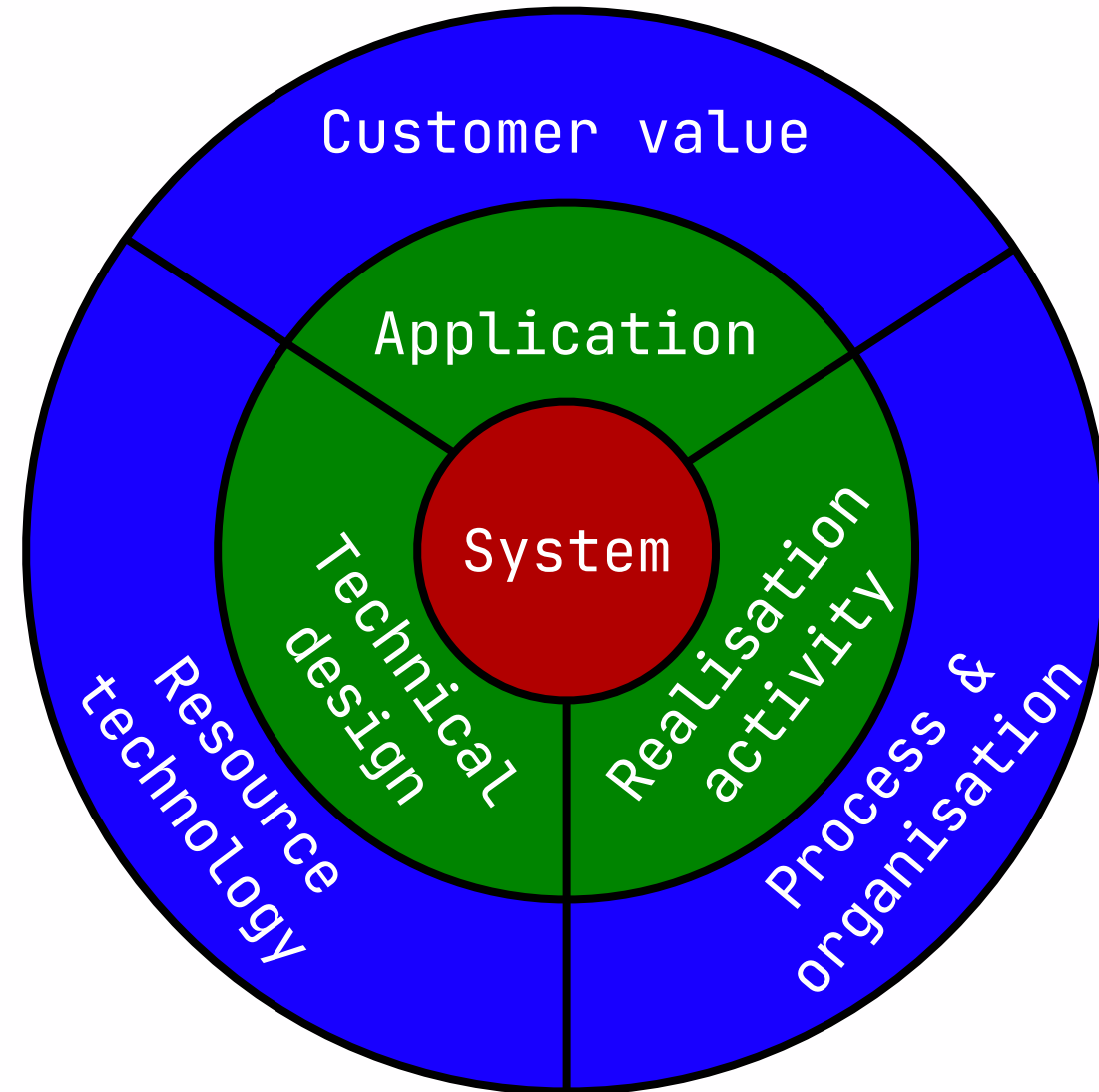
- **Stakeholder**
 - has an interest in the system
- **Concern**
 - is that interest
- **View**
 - expresses the architecture

Stakeholders/Concerns/Views

- S: birthday human
- S: guest
- S: neighbours
- C: eat & drink
- C: time planning
- S: caterer
- V: invitation
- S: landlord
- C: damaged property
- C: get presents
- S: police
- C: disturbing the peace
- S: house cat
- C: house cat
- V: playlist
- V: board games
- V: map
- V: insurance
- V: list of expenses
- V: dress code
- V: dance
- V: wishlist

WP03 Recap: Software architecture

- The software architecture of a system is
 - a collection of statements
 - that gives direction to
 - the design
 - the realisation and
 - the evolution
 - of the software in its environment
- Statements are a model of:
 - structure or guidelines



Statements in architecture

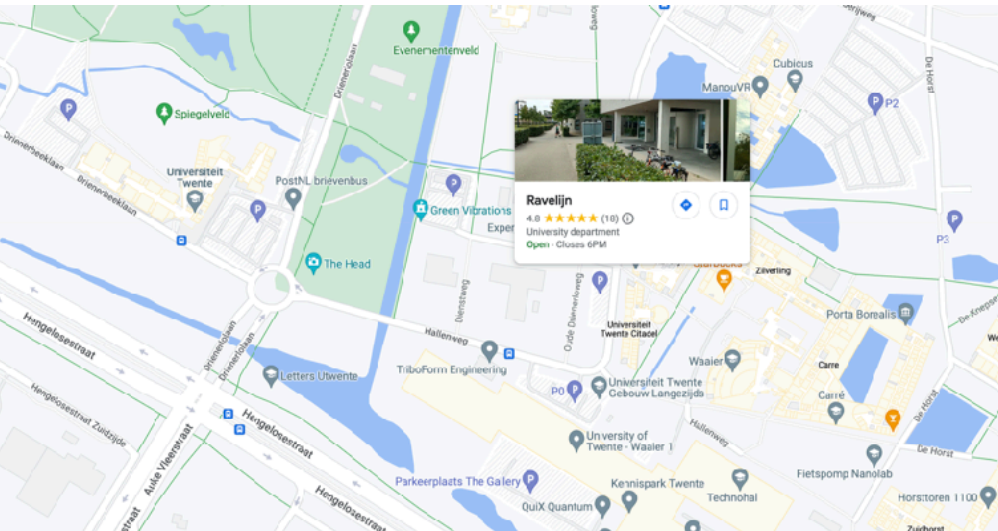
- The software architecture of a system is
 - a collection of **statements**
 - that gives directions
- A **statement** is:
 - something that someone has
 - said, written, or outed in another way
- Statements are related through **terminology**
- Statements are **coherent** and not **contradictory**

Where's the Language?

- Domains?
- Experts?
- Terminology? (concepts)
- Syntax? (form)
- Who speaks the language?
- Who must read it?

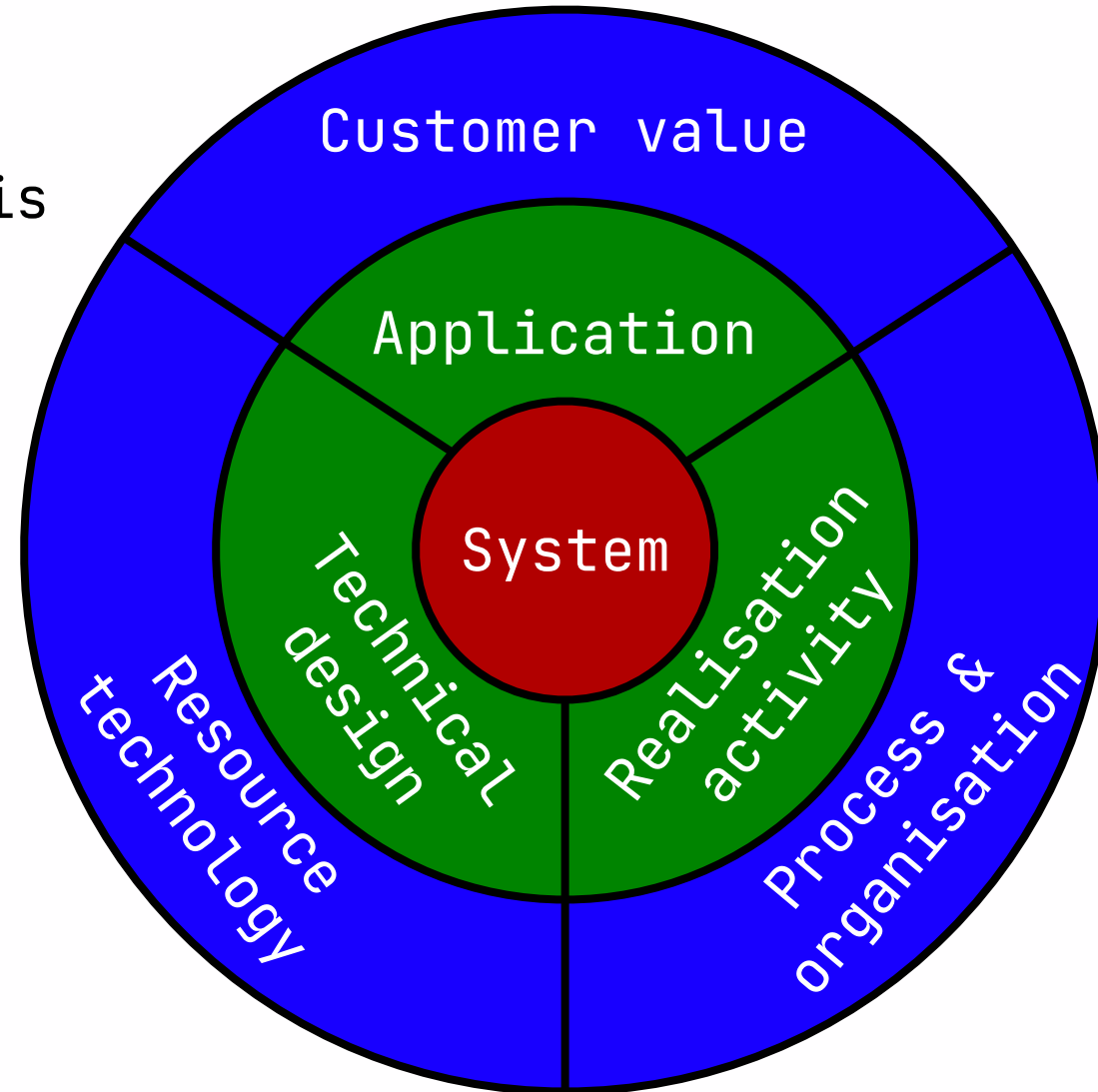
Direction in architecture

- The software architecture of a system is
 - a collection of statements
 - that gives **directions**
- A **direction** can be given:



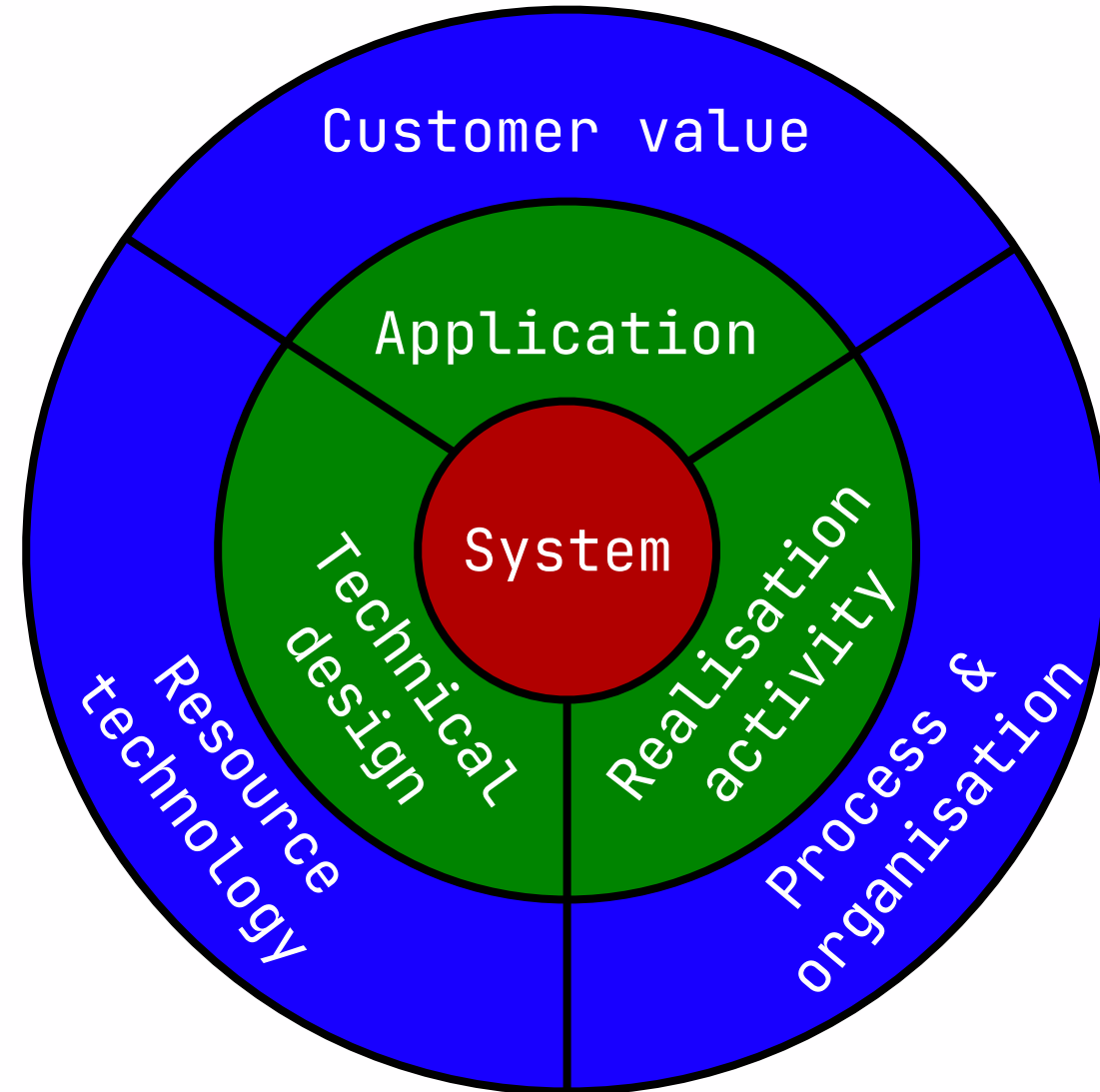
Environment in the architecture

- The software architecture of a system is
 - a collection of statements
 - that gives direction to
 - the design, realisation & evolution
 - of the software in its environment



Environment elements

- physical location
- laws
- people
- device
- time
- systems to interact
- configuration
- resources
- topology
- communication
- guidelines
- API
- constraints



Explore the environment

- What is in the **environment** of your system?
- Add details about
 - **application**
 - who? for what? in which context?
 - **design**
 - technologies? platforms? others?
 - **realisation**
 - process? organisations? activities?

