



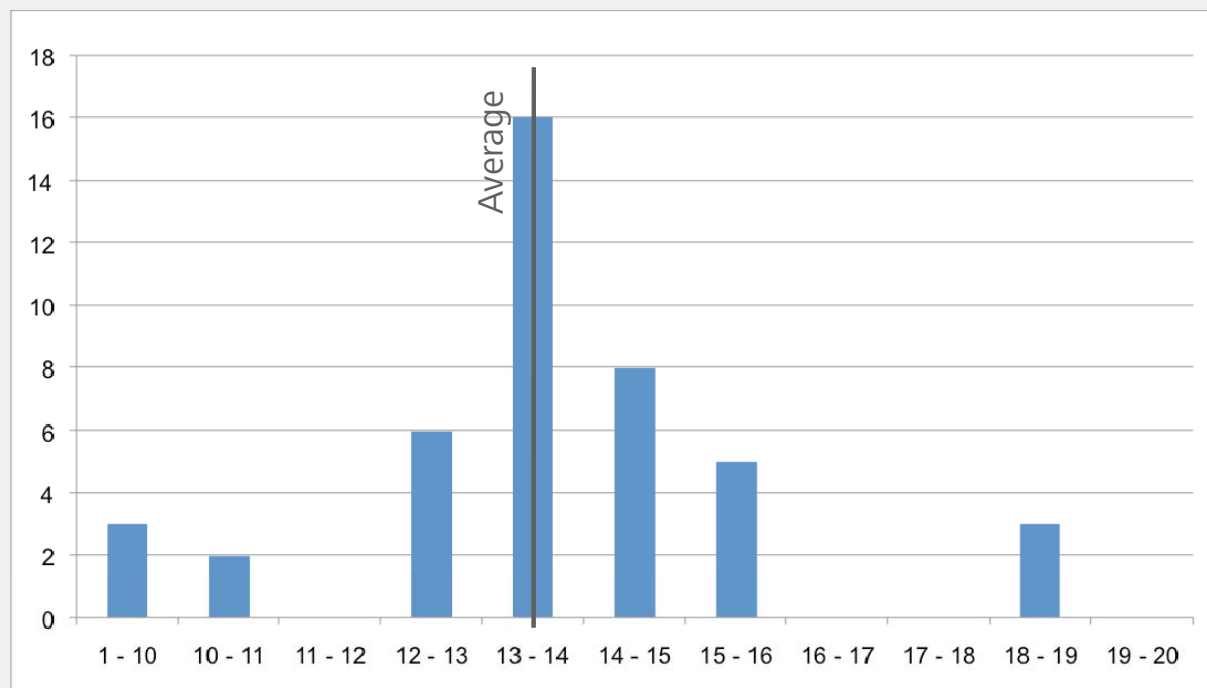
Discussion SE Exercise 2

Dustin Wüest and Cédric Jeanneret

Requirements Engineering Research Group
Department of Informatics
University of Zurich



SE Exercise 1 Results





Submission Protocol



Archive

- Filename schema: Ex[n]_[NameA]_[NameB]
- Without special characters (no accents, no brackets,...).
- Example: Ex3_Wueest_Jeanneret
- Content: a document and source code (no libraries, ...)

Document

- PDF files only
- Must contain group members name and matriculation number
- If possible, send one document

Email subject begins with [SE EX HS08]

From now, these requirements must be satisfied



Requirements Specification



Reminder from the lecture (slide 10, chap. 4)

A requirement specification should be:

- Comprehensible
- Complete
- Unambiguous
- [...]

These were the main criteria we used for the evaluation.



Ex A: Stakeholder Analysis

Who uses the software?

- Secretary, students, department head

Who doesn't use the SW, but has some direct link with it?

- Student association, system administrator

Who knows about the SW, but has only an indirect impact to it?

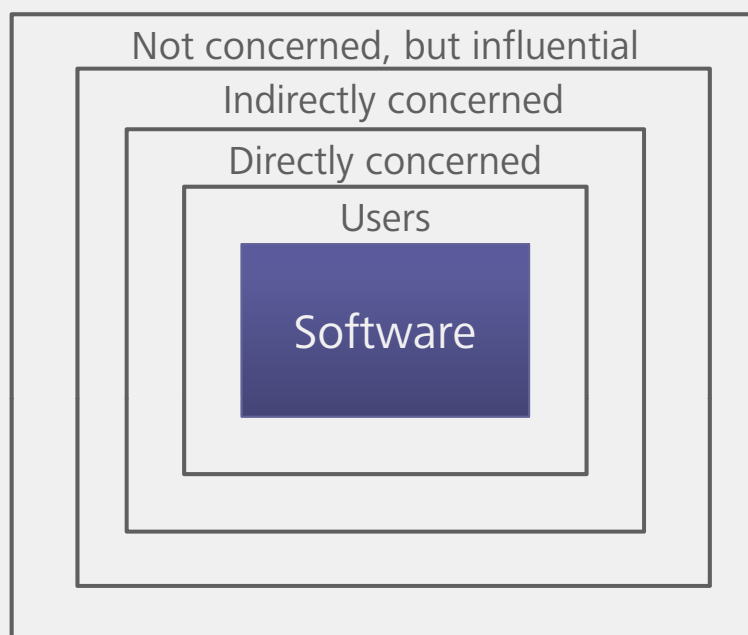
- Professors
- [Management / Marketing department of BlascoArt]

Who doesn't know about the SW, but still has impact on it?

- [Regulation authorities, Standard setting bodies, ...]



Ex A: Stakeholder Analysis





Frequent Problems

Ex A: Stakeholder Analysis



The development team, in this example, is not a stakeholder. Especially if there is no piece of information you expect from it.

Do not mix up the « user » role with use cases. Also, make sure you ask for information about the system to be specified and not information that will be used by this system (e.g.: prioritized list of workshop from a student).



Ex B: Glossary



A set of **domain-specific** terms with their **definition**.

Uncover ambiguities as soon as possible.

Examples (source: Merriam-Webster)

- Semester
 - either of the two usually 18-week periods of instruction into which an academic year is often divided
 - a period of six months
- Faculty
 - a branch of teaching or learning in an educational institution
 - the teaching and administrative staff and those members of the administration having academic rank in an educational institution



Ex C: Context Diagram



System boundary

- What is part of the system? What is not?
- Starting point for further requirements elicitation (e.g. with use cases)

Actors in context

- Bring or obtain information to or from the system
- Delegate tasks to the system

Do not model links among actors unless they are important



Ex D: Requirements Elicitation



A **plan** for requirements elicitation

Sources

- Actors from the context diagram (C)
- Stakeholders (A)

Techniques

- Interviews, Surveys
- Role Games, Observations

P: Plan with its rationale

D: Meaningful and realist questions

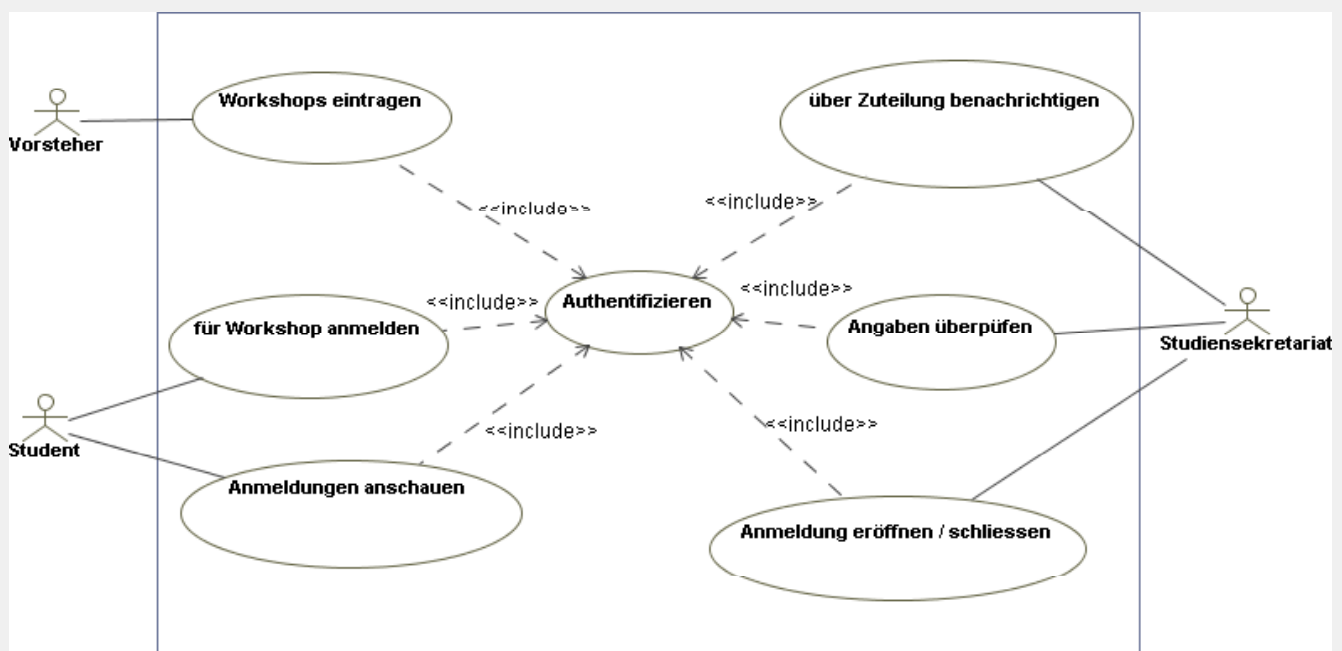
Ex E: Use cases

An use case is a family of interactions between the system and one or more actors. Interactions are triggered by an actor and must deliver a valuable outcome.

(see *Informatik II: Modellierung*, chapter 10)

The use case diagram presents an overview of the use cases and their relationships.

Ex E: Use cases





Frequent Problems

Ex E: Use cases diagram



An use case diagram is not a flowchart!

To describe an use case, use text or behavioral models (state machine, activity, interaction).

Consider sub use cases only if

- an use case depicts a complex scenarios (« extend »)
- they are used by several use cases (« include »)

The inspection of source code by the students association is not an use case!



Ex F: GUI prototype



Evaluation

- Functionality (see use cases)
- Originality