



Requirements Engineering II

Assignment 2
Group 3

**Handshaking with Implementation
Proposals**



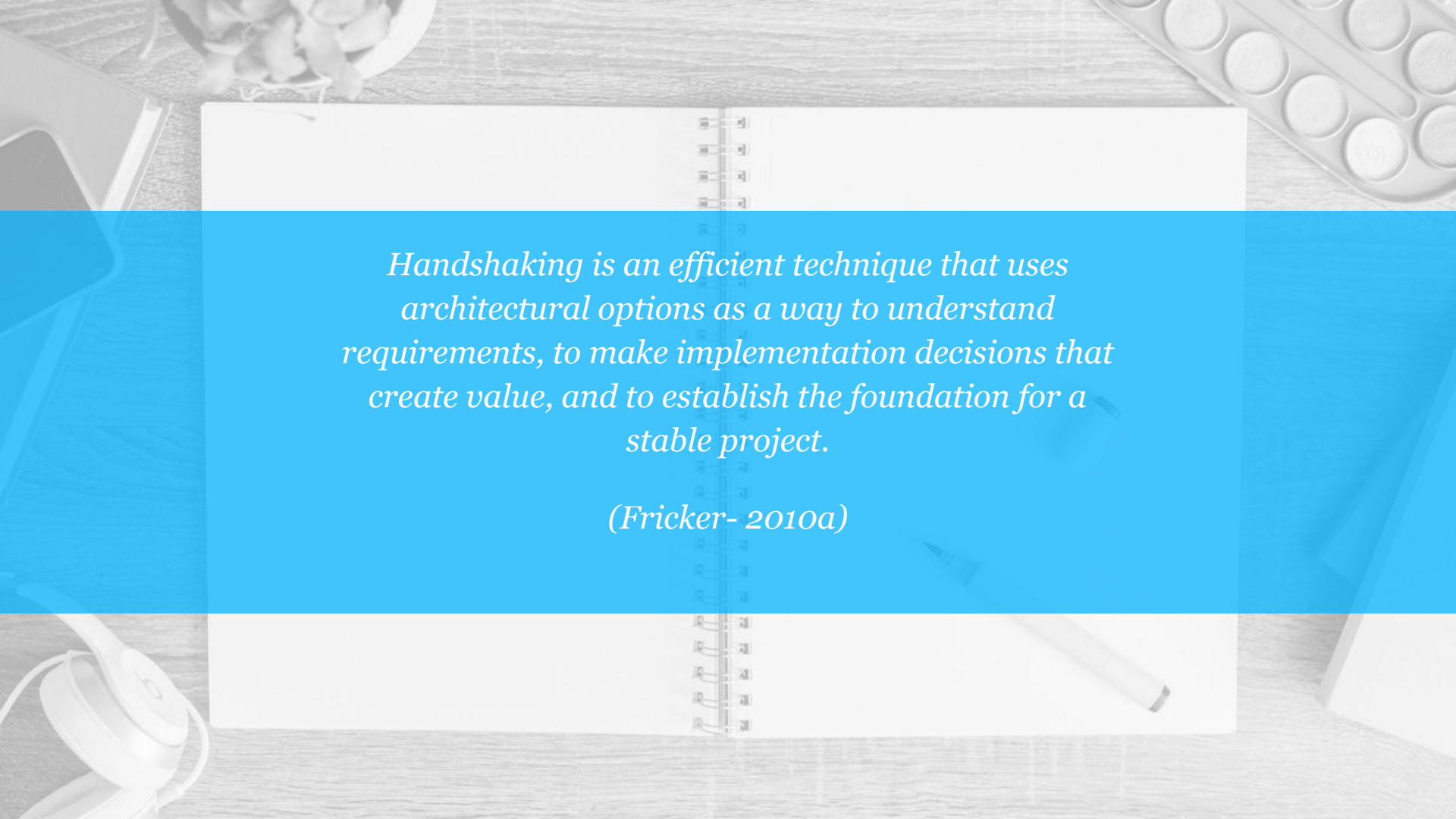
Agenda

Summary

Potential Requirements Conflicts

Proposed Solution

Conclusion



Handshaking is an efficient technique that uses architectural options as a way to understand requirements, to make implementation decisions that create value, and to establish the foundation for a stable project.

(Fricker- 2010a)

Summary

Today's session

Requirements engineering has yet to find working solutions for effective requirements communication. Inadequate communication and tacit assent to a demanding customer's request make it hard to fully understand project requirements.



Handshaking with Implementation proposals supports the communication between a company's product management and its development organization, leading to better understanding of requirements



Conflicts

Conflicts Case Study



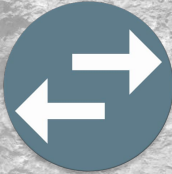
Product manager unable to convey the desired meaning of his requirements with IT manager and marketing manager



Architects confronted with requirements that are too fragmentary for sound solution design.



Development teams dissatisfied by micromanagement and loss of autonomy.



Heterogeneous understanding of requirements and substantial differences in domain understanding



Solution

Proposed Solution



Product manager takes customer role



Development team takes support role



Leads customer & supplier through three requirements phases: take position, negotiating, confirm agreement



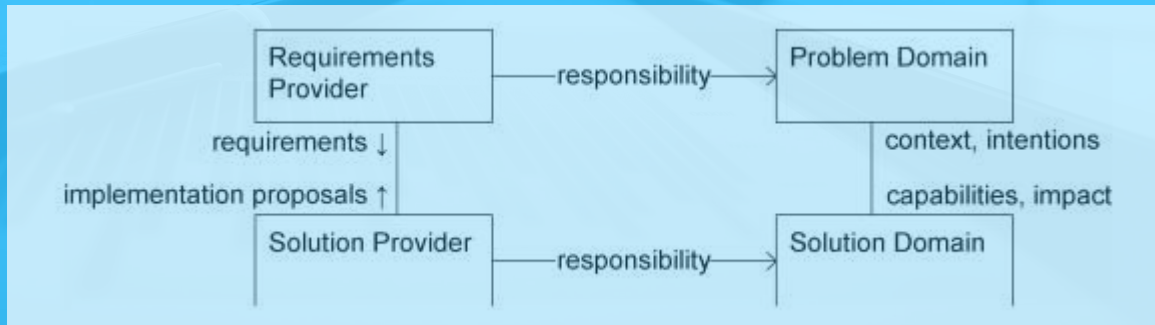
Implementation proposal for documenting the supplier's design proposals

Implementation Proposal

Documents requirements understanding by providing traceability between customers, requirements and supplier design decisions.

Support Communication by providing a form for recording architecture decisions and design rationals.

A basic implementation proposal contains three attributes: basic attributes, negotiation attributes and planning attributes.





Conclusion

Benefits

Missing requirements,
hidden expectations,
and tacit
domain knowledge
identified

improved requirements
decreased defect
related costs by
about 40%

Critical examination
enhance realized
software's value and
increase stakeholders'
satisfaction.

Increased amount and
quality of decision-
making information

Improved identification,
analysis and selection of
variants

Allows detailed
requirements
engineering to be
delegated to
development teams

Encourages
Development
organizations to reduce
their projects' duration.

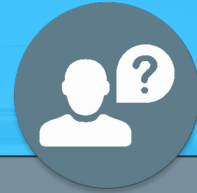
Challenges



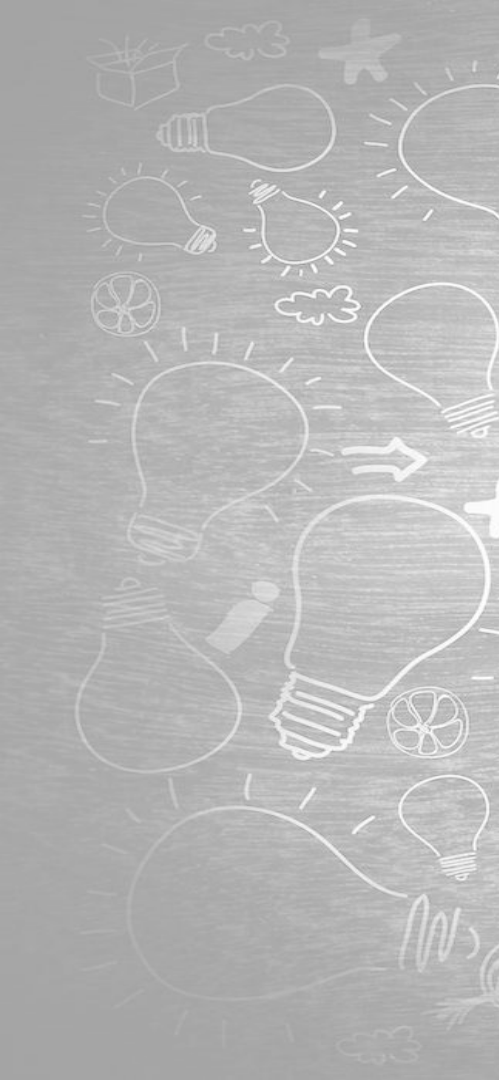
Identify proper stakeholder for role of customer for domain



Product manager dependent on development team's good will and abilities



Questionable other stakeholders understand meaning of requirement



Some questions for you

Could the product manager from the case study take the place of the requirements provider? Reason your rationale.

What happens if development team accepts a badly specified requirement?



Thanks!

Any questions?