SWE62-232 Requirements Engineering Fundamentals

Session 5.2

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Outline

- ★ Kano Model—
 Influence of the
 Requirements on
 Satisfaction



Learning objectives

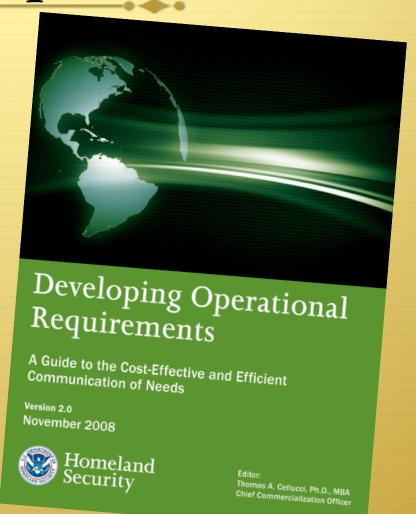


- Upon successful completion students will be able to:
 - Compare different elicitation techniques
 - Explain Kano Model, its use in requirements engineering

Comparison of elicitation techniques

Comparison of elicitation techniques

Resource: DevelopingOperationalRequirements, pp. 14-19



Kano Model

Kano Model

- ♦ Kano model was created by Japan's Dr. Kano in 1984.
- ♦ It can help an organization to get a better understanding
 of customer requirements and their impact on customer
 satisfaction

See more at: http://www.kanomodel.com/#sthash.3rcc5Mgq.dpuf

Kano Model—3 Categories of Satisfaction



System properties that the stakeholder does not know or expect and discovers only while using the system - a pleasant and useful surprise (unconscious knowledge)

Satisfiers

explicitly demanded system properties (conscious knowledge)



Dissatisfiers



The properties of the system that are self-evident and taken for granted (sub-conscious knowledge)

Techniques to Support Satisfaction at Subconscious Level

Dissatisfiers

- → must be fulfilled by the system in any case. Otherwise, stakeholders will be disappointed and dissatisfied.
- * are dominantly influenced by existing systems.

♦ Observation and document-centric techniques are especially well suited for the elicitation of these factors.

Techniques to Support Satisfaction at Conscious Level

♦ Satisfiers

- → are explicitly demanded.
- → If some demanded properties are missing, the stakeholders probably will not accept the product.
- ♦ Satisfaction decreases with each missing satisfiers.

♦ Satisfiers can be elicited well using survey techniques.

Techniques to Support Satisfaction at Unconscious Level

♦ Delighters

→ are the properties whose value is recognised only when the stakeholder can try out the system for themselves or the requirements engineer proposes them.

Creativity techniques are best suited to elicit delighters.

Choice of the Techniques

- ♦ Time and budget
- Availability of stakeholders
- Experience of requirements engineer with a particular technique

- ♦ Level of detail
 - creativity techniques -- abstract requirements
 - survey/observation
 techniques -- medium
 level of detail of
 requirements
 - document-centric techniques -- finely detailed requirements

Which Technique is the Best?

- ♦ No universal method
- * Applying it consciously and in a fashion appropriate to the situation at hand.
 - ♦ How and when a technique can be applied depends on the given conditions
- ♦ More than one elicitation technique is needed in most projects.
 - Combine techniques with regard to your particular situation to lower risks

A Caution

♦ <u>Do</u> Elicit Requirements, <u>Not</u> Solutions

- ♦ E.g., compare a solution and a requirement
 - The product shall display pictures of goods for the customer to click on.
 - ♦ The product shall enable the customer to select the goods he wishes to order.

Session Summary

- ♦ Comparison of elicitation techniques
- * Kano Model—Influence of the Requirements on Satisfaction