Quality Requirements on a Shoestring

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Who Are You?
Scheduling a Workshop
Scheduling a Workshop
Travel Budget
On a Shoestring
Previously at SATURN
Facilitating the Mini-Quality Attributes Workshop
A Lightweight, Architecture-Focused Method

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SATURN 2014 Talk
Shorten Agenda

The Traditional QAW

1. QAW Introduction
2. Business/Mission Presentation
3. Architectural Plan Presentation
4. Identification of Architectural Drivers
5. Scenario Brainstorming
6. Scenario Consolidation
7. Scenario Prioritization
8. Scenario Refinement

Keep it short
Skip
Modify
Homework
System Properties Web
Mini QAW 2.0
Mini QAW 2.0 Agenda

1. Introduction
   - Why are we here?
   - System vision
2. Stakeholder empathy exercise
3. Scenario brainstorming
4. Raw scenario prioritization
5. Scenario refinement
6. Review high priority scenarios
Show Some Love
Same Properties, Different Systems

Stakeholders

- Availability
- Reusability
- Reliability
- Deploy-ability
- Manageability
- Security
- Scalability
- Maintainability
- Modifiability
Stakeholder Empathy Exercise

1. Brainstorm: who are the stakeholders?
2. All pick a stakeholder who is not on the workshop
3. Estimate priorities for selected stakeholder
4. Propose one (or more) important scenario(s)
Stakeholder Brainstorm

- Project Leader
- Business Manager
- End customer
- Sales agent
- OEM partner
- ... 
- ... 

- Service provider
- ...
- ...
- ...
- ...
Same Properties, Different Systems

Stakeholders
Walk System Properties Web

Objective: Identify and prioritize raw quality attribute scenarios.

Time Limit: [30 minutes to 2-3 hours]

Guidelines and hints:
- Put the sticky close to related attributes
- Don’t worry about creating formal scenarios
- Think about stimulus, response, environment
- What are you worried about?
- Watch out for features and functional requirements!

Create 1-2 Scenarios
Help to Avoid Framing
Facilitating the Mini QAW 2.0 with Microsoft Lync
Equal Footing
Collaborative Annotation
Stakeholders

Service R&D manager

R&D PL

Development lead

Operator

Service manager

Back-office (tech support)

Support manager

Partners (value providers)
Share PPT Radar Chart
Multiple Slides for Scenarios
2-3 Hours Max
Reflections

- It-works-for-me™
- Take responsibility for by-product (functional requirements)
- Meet tête-à-tête to clarify
- Get consensus on high-priority scenarios
- Mock-ups/prototypes can help scenario generation
- Must pick qualities to include on the web
References

- “Facilitating the Mini-Quality Attributes Quality Workshop”, by Will Chaparro and Michael Keeling, SATURN Conference 2014
  - Talk: https://www.youtube.com/watch?v=vPGyPRFx0mk
  - Slides: https://resources.sei.cmu.edu/asset_files/Presentation/2014_017_101_89563.pdf
Right Decisions: Intuition or Facts?
Power and productivity for a better world™
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