

Elicitation on Site

Requirements Engineering II

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Outline

- 1 Scenario Walkthroughs
 - Introduction
 - Walkthroughs in workshops
 - Walkthroughs on site
- 2 Application of Mobile Technologies

Aims

- elaborating the scenarios together with stakeholders
- identifying the normal and alternative course events
- creating new requirements to deal with identified events

How does it look like?

- actors: facilitator, scribe, stakeholders
- many stakeholder gather in a cosy meeting room
- the scenario events can be looked at from different perspectives
- easy access to some extra documentations, media, simulations, etc.
- the normal course of events and some of alternative ones are walked through
- the facilitator doesn't actively propose requirements

Possible problems

- difficult to gather all stakeholders at the same time (time conflicts, geographical location, etc.)
- out of the work context problem - abnormal and unexpected courses of events difficult to identify
- simulations might not reflect the complexity of the scenarios, also usually very costly and often not result in new requirements being identified
- facilitator and scribe might often lack domain knowledge
- no work context available
- ...

An approach

- Actors go through future system behaviour and observes current system behaviour at the same time
- in real context many what-if questions emerge
- apprenticing-like approach - facilitator learns the domain
- complexity of the domain can be directly observed (abnormal and unusual behaviour events emerge) and directly addressed
- facilitator actively creates requirements

Obstacles

- not always possible (dangerous, policies)
- some concurrent events difficult to observe
- time consuming

“On site” vs. Workshop

- many more new requirements identified
- more productive (one walkthrough on site generates more requirements than one workshop session)
- the facilitator and scribe acquire necessary knowledge of domain
- much higher “requirement no. / hour of stakeholder participation” ratio

RE Tasks on Mobile Platforms

- capture
- validate / verify
- change

Mobility

- limitations
 - screen size
 - network coverage
- distribution

Capture / Change

- fast (e.g. audio recordings)
- additional material
 - domain knowledge
 - photos / videos

Validation / Verification

Validation

- completeness
- accuracy

Verification:

- precision
- time dimension

Automation

- generate questions
- generate alternative scenarios
- context-awareness