Awareness meets requirements management: Awareness needs in Global Software Development

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Basis

- In GSD, stakeholders are distributed from each other physically.

- Totally co-located development benefits from zero-cost awareness.
Awareness as a Problem in Requirements Engineering

- Awareness is tacitly knowing what is going on
- Awareness is maintained through interaction with the environment

- Requirements provide context for developers: what is needed, for who, why
- Even in co-located environments RE awareness is limited
Problem

- Workspace awareness is impeded in GSD

- In requirements management, what aspects of requirements engineering and management are important for stakeholders to be aware of?
Requirements for awareness

- Allow project stakeholders to seek existing information
- Support stakeholders in decision making
  - Assigning responsibilities and managing a project
  - Gathering and managing estimation data
  - Impact analysis
- Decision notification
Approach

- Immerse ourselves in the constraints of GSD
- Pursued a ‘mini’ GSD development cycle
- While evaluating current, ad hoc approaches to collaboration
GSD Interactions during investigation
Elaboration of Requirements

The system should:

- Allow project stakeholders to seek existing information
- Support stakeholders in decision making
  - Assigning responsibilities and managing a project
  - Gathering and managing estimation data
  - Impact analysis
- Allow for decision notification
Elaboration of Requirements

The system should:

- Allow project stakeholders to seek existing information
- Support stakeholders in decision making
  - Assigning responsibilities and managing a project
  - Gathering and managing estimation data
  - Impact analysis
- Allow for decision notification
Elaboration of Requirements

The system should:

- Allow project stakeholders to seek existing information
- Support stakeholders in decision making
  - Assigning responsibilities and managing a project
  - Gathering and managing estimation data and progress information
  - Impact analysis
- Allow for decision notification
Elaboration of Requirements

The system should:

- Allow project stakeholders to seek existing information
- Support stakeholders in decision making
  - Assigning responsibilities and managing a project
  - Gathering and managing estimation data
  - Impact analysis
- Allow for decision notification
Elaboration of Requirements

The system should:

- **Allow project stakeholders to seek existing information**
  - Including meaningful interface with email archive

- **Support stakeholders in decision making**
  - Assigning responsibilities and managing a project
  - Gathering and managing estimation data
  - Impact analysis

- **Allow for decision notification**
Feedback, Questions and Comments