

Requirements Engineering II

Tools for Requirements-Centered Collaboration

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Agenda

- EGRET
 - Problems & Challenges
 - Requirements for a succesful requirements management tool
 - Solution
- Wiki-based stakeholder participation
 - Why using a Wiki for RE?
 - SOP Wiki and Wiki Features
 - Demonstration

Problems & Challenges

- Requirements management is one of the **most collaboration-intensive activities** in software development
- Business analysts are located close to customer, but the development work takes place in an offshore center
- **Informal communication** plays an important role
- Most of the available requirements management tools just store the requirements but don't support collaboration

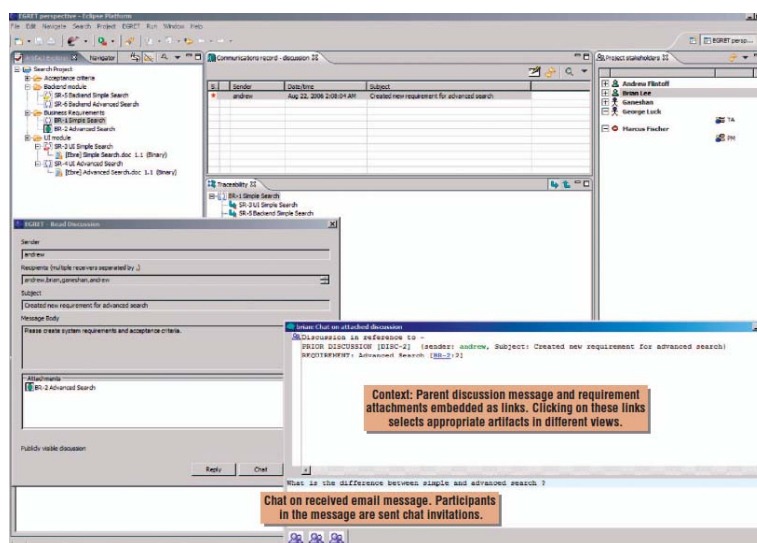
Requirements for a successful requirements management tool

- Informal collaboration services
- Structured and formal collaboration services
- Awareness features
- Knowledge management techniques

Solution

Requirement	Solution
Informal communication	Synchronous (chat) and asynchronous (email) communication
Formal communication	Suscribing to a requirement and get notifications about the chosen requirement
Awareness features	Peripheral and people-centered awareness
Knowledge management techniques	•Search on individual and global repositories •Outlining inter-requirement dependencies •Visualizations of traceability data

Eclipse-based Global Requirements Tool



Why using a Wiki for RE?

- Small and medium-sized enterprises uses mostly general tools, e.g. [office suites](#) ending in [distribution chaos and linking problems](#)
- General [collaboration tools](#), e.g. Sharepoint Server, [lack of versioning and linking](#) between documents
- [Dedicated RE tools](#) are often [costly](#) and [difficult to use](#) for nontechnical users

Software Organization Platform Wiki

The SOP-Wiki is an [opensource MediaWiki extension](#) adding features for [linking, versioning and mass editing](#). The project group defines best practices how to use the built in tools for requirements elicitation and change management and how to detect and resolve conflicts and misunderstandings.

MediaWiki and SOP Features for RE



Homepage and portal site, user profiles, version history, basic traceability showing linked pages and changes, discussion pages, finding orphan pages etc.



Linking support and permalinks, link harvester and freeze and version tagging for cross-page versioning, odt export, text casts and regexp

Semantic Wiki plug-in to add metadata

SOP Wiki Demonstration

www.shutter.ch/re2 - Stakeholder2/student

