

Feedback-Driven Requirements Engineering: The Heuristic Requirements Assistant

Problem: Specifications of complex systems are comprehensive and complicated. They are collaboratively written by different experts (e.g. Req. Analyst, Business Process Analyst).

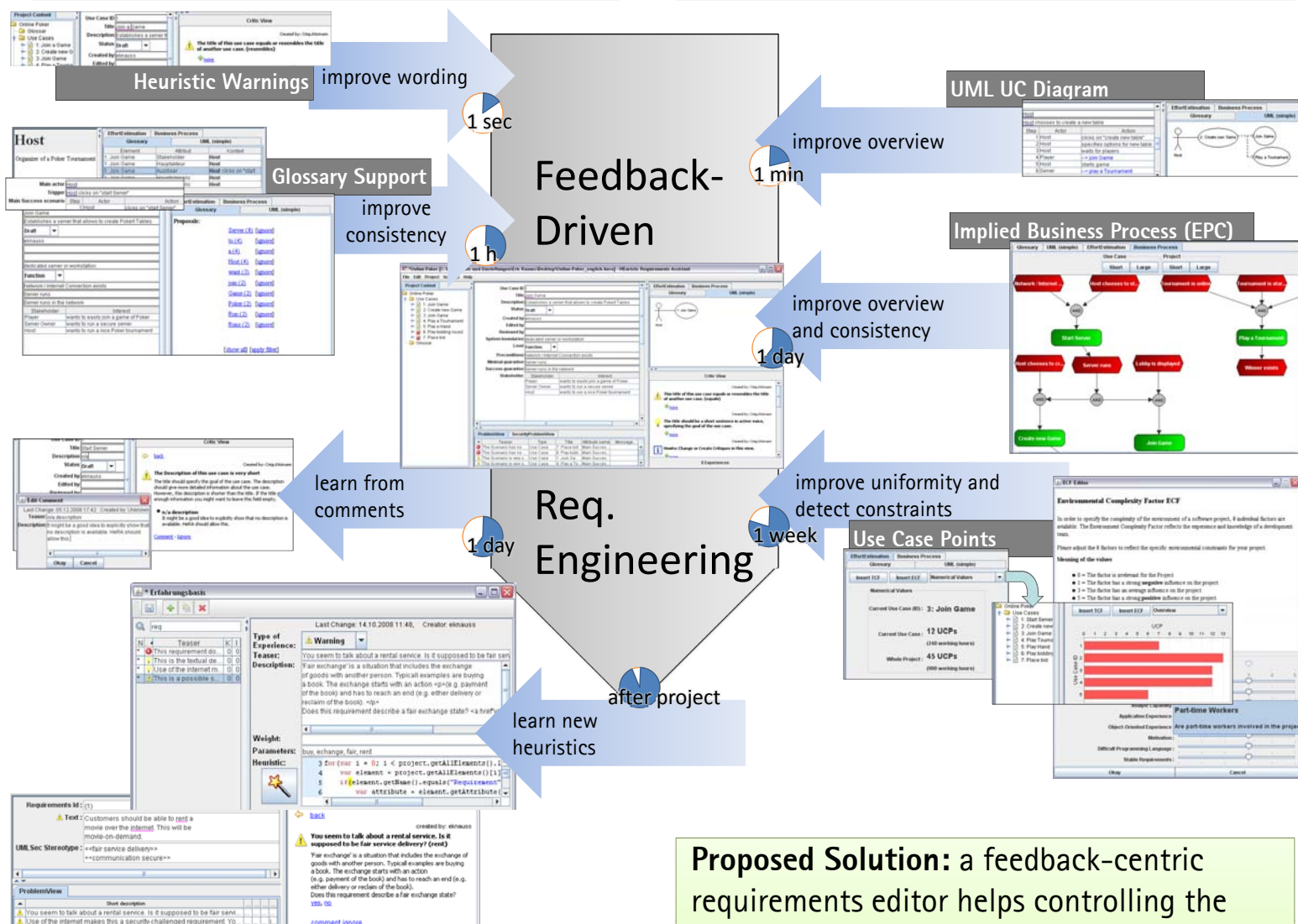


Consistency: Different models tend to become inconsistent (e.g. Use-Case and BPM).
Overview: It is hard to overview complicated and comprehensive documents.
Uniformity: Different authors have different writing styles.
Errors and Ambiguities: Are hard to detect; reviews are expensive.

Approach: Mitigation through computer-induced feedback

Heuristic Rules: Analyze input and compare it with the experience base to create constructive feedback.

Automatically Derived Models: Visualize requirements from different perspectives to detect inconsistent requirements.



HeRA's heuristics improve by learning from usage and comments, and by new heuristics based on project experience.

Proposed Solution: a feedback-centric requirements editor helps controlling the information overload. The HeRA tool provides analysts with important data from various feedback facilities. The feedback is directly given based on the input to the editor.

Demonstration at <http://www.se.uni-hannover.de/en/hera>

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