

A project management tool for flexible collaboration

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A project management tool for flexible collaboration



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CONTEXT

Most software and system processes contain tasks that can be performed by multiple actors, known as **collaborative tasks**.

- When it is executed, a collaborative task is deployed with many instances, each one is performed by one actor.
- There are various strategies describing relations between instances of a collaborative task (sequence-based, parallel-based).

Process Management Systems (PMS) provide functionalities to control task instances' evolution at execution time.

MOTIVATION

Existing process modeling languages lack a clear semantics on how to instantiate and execute a collaborative task.

• Execution of collaborative tasks is not yet finely controlled in PMS

Existing PMS do not support selecting different strategies to instantiate and execute a collaborative task.

Execution of collaborative tasks is not flexible

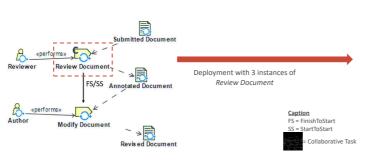


Fig.1: Example of a process with a collaborative task (Review Document).

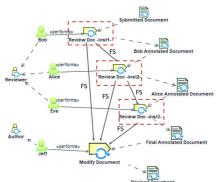


Fig.2: Sequential strategy of the collaborative task Review Document

WORK SUMMARY

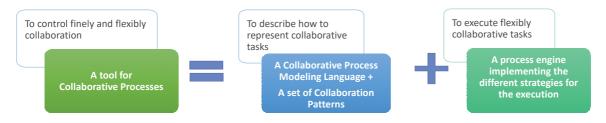


Fig.3: Overview of our approach

RESULTS

- A set of Collaboration Patterns allowing representing different strategies that can be used at execution to perform a collaborative task. These patterns describe the possible control flows (sequential, parallel) and the way of sharing work products among instances of a collaborative task.
- A Process Modeling Language to express collaborative concepts.
- A prototype of a Collaborative Process Engine allowing to instantiate and execute collaborative tasks based on chosen strategies.

CONCLUSION

- ❖ We propose a flexible way to enact collaborative tasks,
- For a more intelligent assistance in selecting an execution strategy for a collaborative task, we are investigating:
 - A language of definition of context elements,
 - An algorithm of pattern recommendation based on context elements values.

