



Requirements Management Tool rmtoo

Overview & Feature Set

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Version 7

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1.The idea behind rmtoo

Or: How to solve problems

Idea

- Requirements Management is about solving problems.
- This process is iterative: one solution may result in new problems which in turn form the basis for new solutions.
- Problem solving is mostly a *Divide et Impera*: divide the problem into smaller ones and solve them.

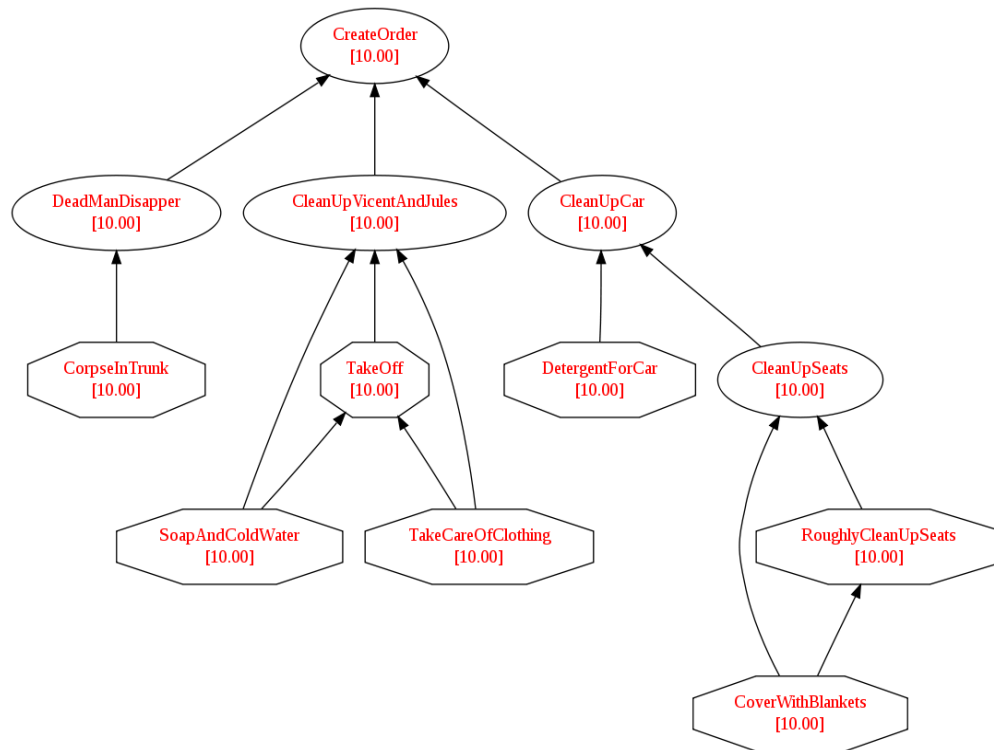
Idea: Example (1/3)

- Mr. Wulf (from the movie Pulp Fiction) solves problems.
- He divides his 'problem' into three parts:
 - **Clean up car**
 - **Clean up Vincent and Jules**
 - **Make dead man disappear**

Idea: Example (2/3)

- Then he solves these problems – one by one by dividing them up into smaller ones.
- Example: Clean up Vincent and Jules
 - take off clothes then
 - clean with soap and cold water.

Idea: Example (3/3)



- This is the problem – solution tree.
- Each problem can be seen as a requirement.
- Many solutions mean new problems – solutions are also requirements.

rmtoo

- Created for problem solving.
- It's a tool to support you. Not the other way round!

2.Features

Features (1/3)

- *rmtoo* works on plain text files.
- *rmtoo* supports version control systems.
- *rmtoo* supports a wide range of output formats.
- *rmtoo* supports a unique way of structuring requirements: topics.

Features (2/3)

- *rmtoo* can be fully integrated into existing development environments.
- *rmtoo* checks the quality of requirements with the help of heuristics.
- *rmtoo* works on local files (you have the control).
- *rmtoo* has minimal system dependencies.

Features (3/3)

- *rmtoo* comes with a complete specification in *rmtoo* format itself (unique!).
- *rmtoo* supports you: fast and structured working is a guaranteed.
- *rmtoo* enforces you to 'Think before you write'.

3.Introduction

“FLONATEL”



Basic Facts (1/4)

- *rmtoo* is a minimalistic non-interactive requirements management tool.
- *rmtoo* works on data stored in the file system (plain text files).
- *rmtoo* is a command line tool which reads in files and creates output.

Basic Facts (2/4)

- *rmtoo* supports different output formats and artifacts. For example:
 - PDF / LaTeX
 - XML / HTML
 - GanttProject
 - Requirements Dependency Graph
- *rmtoo* can be easily extended by adding new output modules.

Basic Facts (3/4)

- *rmtoo* data files can be handled by standard *nix commands (emacs, vi, grep, awk, streplace, sed, ...).
- *rmtoo* runs largely on the same hardware and operating system where the development is done – no need for a dedicated machine.
- *rmtoo* baselining can be handled by a version control system.

Basic Facts (4/4)

- *rmtoo* needs minimal resources
 - Netbook CPU
 - 10MByte disk space for installation and documentation
 - RAM usage dependent on size and duration of project
- *rmtoo* comes with a complete template project. Using this makes it simple to start own projects using *rmtoo*.

rmtoo does not

- *rmtoo* has no GUI.
- *rmtoo* does not come with a database.
- *rmtoo* does not have an integrated editor.
- *rmtoo* does not provide a UML editor.
- *rmtoo* does not have import capabilities (e.g. from a spreadsheet or a word processing document).

License

- *rmtoo* is Open Source.
- *rmtoo* is free.
- *rmtoo* is licensed under GPLv3.
- Commercial support is available.

4. 10 dos and 10 don'ts

reasons for using rmtoo

reasons for not using rmtoo

Use rmtoo

- when you want to be fast.
- when you want to have full control over the input files.
- when you need one set of requirements to be converted to various different output formats.
- when you need structured requirements.
- when you need a tool that supports you.

Use rmtoo

- when you need functionality which is easily extensible.
- when you want a single source of information for all requirement related materials.
- when you want the requirements for the requirements management tool you are using.

Use rmtoo

- when you want to store the requirements with the implementation source code.
- when you want to include building requirements in your continuous build environment.

Do not use rmtoo

- when a GUI is needed.
- when a web-based approach is needed.
- when you do not need full control over your data.
- when you want to adapt your behavior to a tool's processes.
- when you want to put your internal data into another companies computer.

Do not use rmtoo

- when you want to work with a tool which tries to do everything.
- when you want to be dependent on one vendor.
- when you need a traceability matrix.
- if you want to make dozens of mouse-clicks to get one output document.
- if you want to spend money.

5. Future

Future / Plans

- Some features are currently missing but planned for the upcoming releases
 - Traceability
 - Better support writing requirements in Emacs mode
- Community, User and Customer driven

Thank you!



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<http://www.flonatel.de/projekte/rmtoo>