

Refactoring Engine for SmallWiki2

Advanced Design Lab

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Situation

Problems

- Wiki sites polluted with many undesirable links (e.g. automatically generated ads)
- In general: changing specific elements on wiki pages (e.g. change e-mail address)

Solution

- Advanced search engine with a GUI for creating search queries.
- Applying changes to selected elements.

Search Engine

Problem A query should return elements, not pages.

Solution Extending `SW2QueryVisitor` to return tuples `(page,elements)`.

Problem How can we search for arbitrary elements by arbitrary attributes?

Solution Use the meta model provided by Magritte.

Applying Changes

Problem How can we create extensible commands for single elements?

Solution Creating a command hierarchy similar to the one of `SW2Command` for elements.

Problem How can we delete elements?

Solution Adding parent links to `SW2DocumentItem` and extending `SW2DocumentGroup` with a method `remove`.

Problem How can we apply changes consistently?

Solution Using a subclass of `SW2EditPageCommand` (→ ensures consistency and correct logging).