

Markdown Support for the Sweble Hub Software

Summary

The Sweble Hub software is a wiki-like web application for knowledge management and end-user programming. So far it supports writing articles in the well-known MediaWiki markup language. To offer a broader selection of available markup languages for article authoring the goal of this thesis is to add Markdown support to the Sweble Hub software. Instead of rendering markup languages directly as HTML the Sweble Hub software stores articles as document trees, a subset of the Wiki Object Model (WOM). Therefore the parser has to generate WOM instead of HTML. Furthermore pretty-printing and WOM RTD (round-trip-data) repair are required.

Work Results

- Literature review
 - Can an existing parser can be adopted? Consider software license, features, and code quality.
 - Investigate extensions of the markdown format worth adopting (e.g. GitHub flavored markdown).
 - Review and choose parser generator, if necessary.
- Design and implementation of parser
 - Implement or adapt parser in Java.
 - Implement pretty-printing algorithm.
 - Implement and RTD (round-trip-data) repair algorithm.
- Evaluation and discussion of results
 - Documentation of parser adoption choice or re-implementation.
 - Comprehensive test suite for the parser and the RTD repair algorithm.

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