

Bookmap – A Topic Map Based Web Application for Organising Bookmarks

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Overview

- Introduction
- Motivation
- Specification
- Implementation
- Ontology
- Benefit
- Conclusion
- Discussion



Introduction

- Existing TM-applications:
 - Mostly generic
 - Flexible, but complex
 - Knowledge of TM-model necessary
- Aim: usage of TM-model in an application:
 - Specific structuring challenge
 - User and use oriented
 - Target group as large as possible
 - Not TM centered, but TM based





Organising bookmarks as structuring challenge:

- Forget
- Organise
- Find
- Comment

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Specification/Data modeling

- Topics
 - Bookmarks -> Items
 - Folder -> Container
 - (Keywords)
- Occurrences (internal)
 - Short description
 - description
 - dates (visited, created, modified)
 - Order of elements (chained list)
- Scope
 - Mapping of hierarchical structures
 - Refers to the parent container of an element

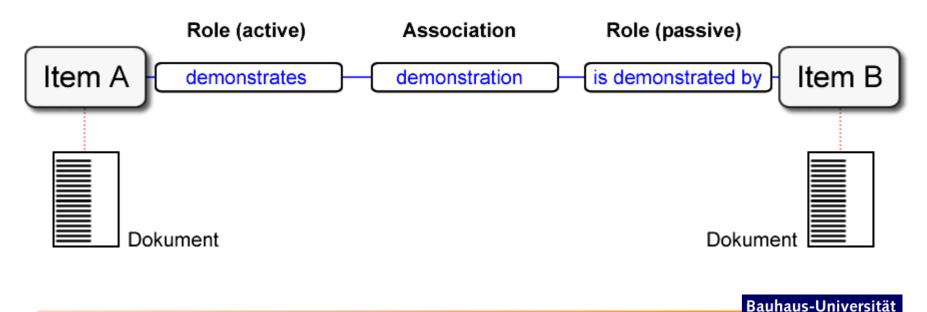


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Associations

- Currently only pairs
- Predefined Association Types (explanation, interpretation, demonstration...)
- Description of the relation between two documents





- Web-application
 - Central storage and modification of bookmarks
 - Platform and machine independant
 - Avoid distributed collections
- Multi-user system
 - Following established social bookmarking systems
 - Personal recommendation system -> social community
- Browser based user interface
 - Avoid local installation
 - Avoid browser plugins
 - Development of a user friendly user interface
 - Interaction standards (context menus, drag&drop)



Specification/Functionality

- Basic Functionality
 - Administration of bookmarks (items)
 - Create
 - Edit
 - Delete
 - Hierarchical structure (container)
 - Describing metadata
- Extended functionality
 - Semantic relation between system elements
 - keywords
- Group functionality
 - Public <> private bookmarks (optional)



Specification/Functionality

- Interaction
 - Abstraction of the data model
 - Familiar interaction mechanisms
- Integration
 - Import and export functionality
 - Integration in users' processes
- Extensibility
 - Separation of logic and layout
 - Development of an API
 - Public domain software
- Field of use
 - Central server
 - Private copy on own server

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Ontology

- Hierarchical elements
 - Container
 - Bookmark
 - (descriptions, keywords, metadata)
- Associations

explanation description interpretation demonstration discussion recommendation summary sequence part-wholerelationship weblink tagging confirmation contradiction relation equality

explains	is explained by
describes	is described by
interpretes	is interpreted by
demonstrates	is demonstrated by
discusses	is discussed by
recommends	is recommended by
summarizes	is summarized by
precedes to	follows to
consists of	is part of
links	is linked by
tags	is tagged by
confirms	confirms
contradicts	contradicts
is related to	is related to
is equal to	is equal to

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Benefit for the user

- Central storage of bookmarks
- Possibility of relating to other users' TMs
- Getting new insight from other users' semantics
- Quicker and different access to new knowledge domain
- Different from delicious? Semantics.
- Fuzzzy? Similar Tags could be seen as folders, but we restrict users (Assoc.)



Conclusion

- Specific, problem oriented TM application
- Organisation, exploiting and navigation (association)
- Hierarchical structures (scope)
- Description and metadata (occurrence)
- Web-based bookmark management
- Independent of platform and machine
- Simple interaction (Ajax)
- Good integration (local drag&drop, shortcuts)



Future work

- Possible use of TMAPI/PHP
- Publication on sourceforge.net underway
- Further evaluation of prototype planned, test vs. Informal user study
- Verification of Ontology in different scenarios
- Need for users to extend/create own ontology? How?



Thanks for your Attention!

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