

ProposalRepository

This Wiki contains concepts, results and brainstormings concerning the repository integration done at the [SprintZurich20040514](#).

Goals

- independence from repository implementation
- reuse of Cocoon components
 - exclude repository markup from sitemap URLs i.e. user name and credentials
 - Lenya protocol as single entry point for PageEnvelope access if using lenya: /

Ideas

- based on
 - repository block interfaces
 - default implementation: Slide block (SlideSource and the Slide protocol slide:)
- extension of repository block
 - new methods in VersionableSource
 - new interfaces TransactionableSource, TransactionManager
- lenya: * protocol + LenyaSourceFactory, which delegates to further protocols i.e. slide:
 - The lenya protocol should be configureable i.e. the delegation protocol (slide:) and a delegation prefix i.e. a namespace if the delegation protocol is slide:.
 - using src="lenya:/" is equivalent to using src="lenya://{page-envelope:publication-id}/{page-envelope:area}". This will heavily reduce sitemap redundancies and still provides enough flexibility

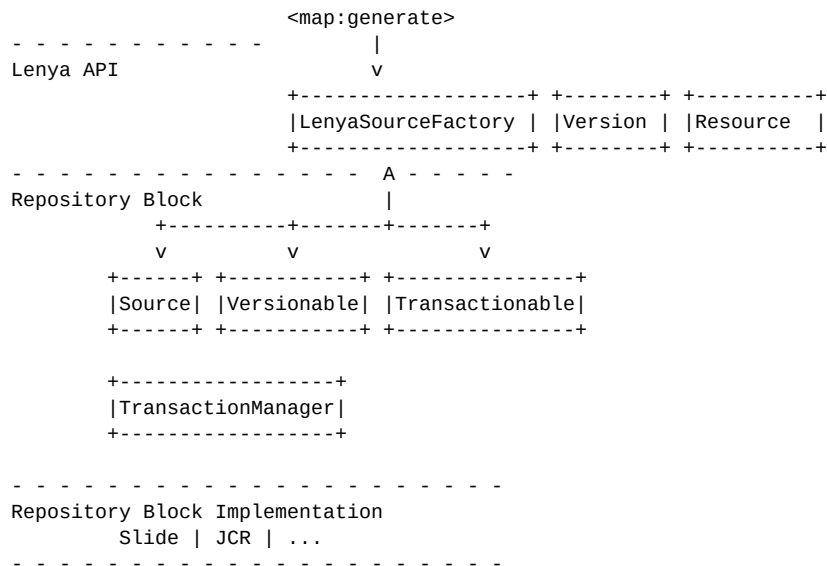
Definitions

;Delegation Protocol: The protocol to be delegated to by the LenyaSourceFactory used to access the repository ;Delegation Prefix: A prefix to be prepended to the url before it is delegated to the delegation protocol

Reasons

- why slide?
 - JCR is not ready
- why o.a.c.c.repository.*Source instead of o.a.c.c.repository.Repository?
 - existing Slide implementation
 - Repository focuses too much on Flow
- we want to reuse the repository source interfaces
 - *we need to add transaction support with a new interface *transactionable*
 - *we want to use the underlying slide block and have to implement *transactionable* for the slide source

Diagrams



Approach

1. move publication API draft from [University of Zurich Publication](#) into Lenya and merge
2. extend Slide source with transactable interface
3. Implement a LenyaSourceFactory as described in this document
4. Replace `<map:generate src="path"/>` by `<map:generate src="lenya://path"/>` or `<map:generate src="lenya:/path"/>`.
The LenyaSourceFactory will delegate to the context: protocol until the Lenya API uses ModifiableTraversableSource to change/create files in the repository.

Transactions

- LenyaSource implements Transactionable
- Transactionable is marker interface for communication with TransactionManager
- TransactionManager accesses repository transaction manager

Interface extensions

Versionable Source

- void checkout()
- void uncheckout()
- void checkin()
- setVersioned()
- Source getSource(String Revision)
- String[] getRevisions()
- boolean isCheckedOut()

Results

- Implemented and tested LenyaSourceFactory
- Started integration of new Lenya/Publication API