

Collaborative Protégé

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Collaborative ontology development

- Several people editing the same ontology:
 - same time
 - different times
- Different environments:
 - wiki style
 - controlled environment

Functionalities

- Annotations
 - Classes, properties, individuals, etc..
 - Changes
- Discussion threads
- Proposals & Voting
- Search & Filtering
- Chat
- Statistics
- Web of trust
- Workflow support

Collaborative Protégé

CKC2007 Protégé 3.3 beta (rmi://smi-protege.Stanford.EDU/CKC2007)

Java Applet Window

File Edit Project Window Help

Classes Slots Instances

CLASS BROWSER

For Project: ●

Class Hier

- :THING
- :SYSTEM-CLASS
- Organization
 - Research_institute
 - University
- Person
- Publication
- Topic
- Workshop

Superclasses

- :THING

No other users

CLASS EDITOR

For Class: ● Publication (instance of :STANDARD-CLASS)

Name: Publication

Documentation:

Role: Concrete ●

Template Slots

Name	Cardinality	Type
accepted-in	single	Instance of Workshop
author	multiple	Instance of Person
url	single	String

Annotations

All (Ann. & Chg.) Discussion Threads Search Chat

Annotations Changes

Filter: By author... Go

Annotations on Publication

- (TestUser1 04/16/2007 16:12:30 PDT): I think we should add subclasses to Publications. Are
- ✓ (TestUser2 04/16/2007 16:14:24 PDT): Good idea!
- (tania 04/16/2007 16:46:43 PDT): Should we add a "cited-in" property to Publication?

Annotation body

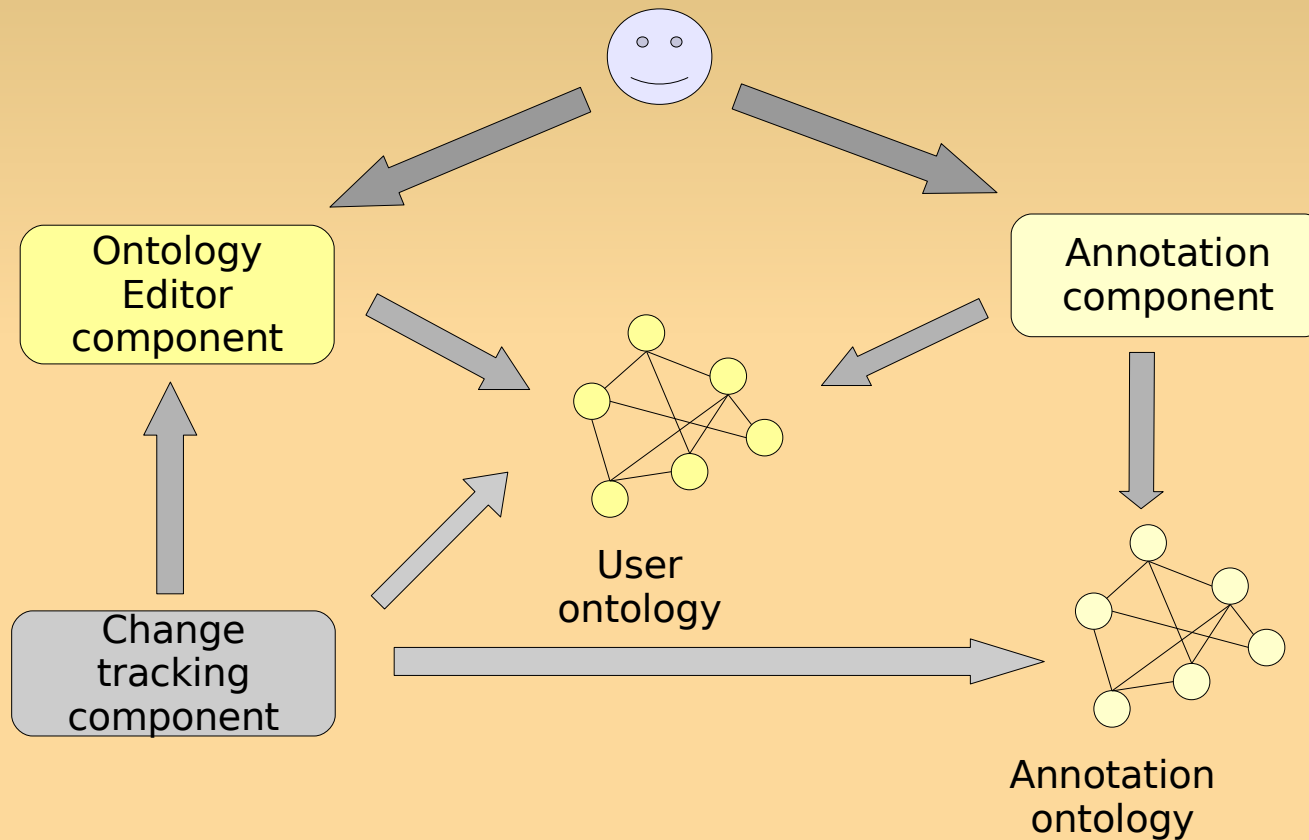
INSTANCE EDITOR

For Instance: ◆ (TestUser1 04/16/2007 16:12:30 PDT): I think we should add subcla...

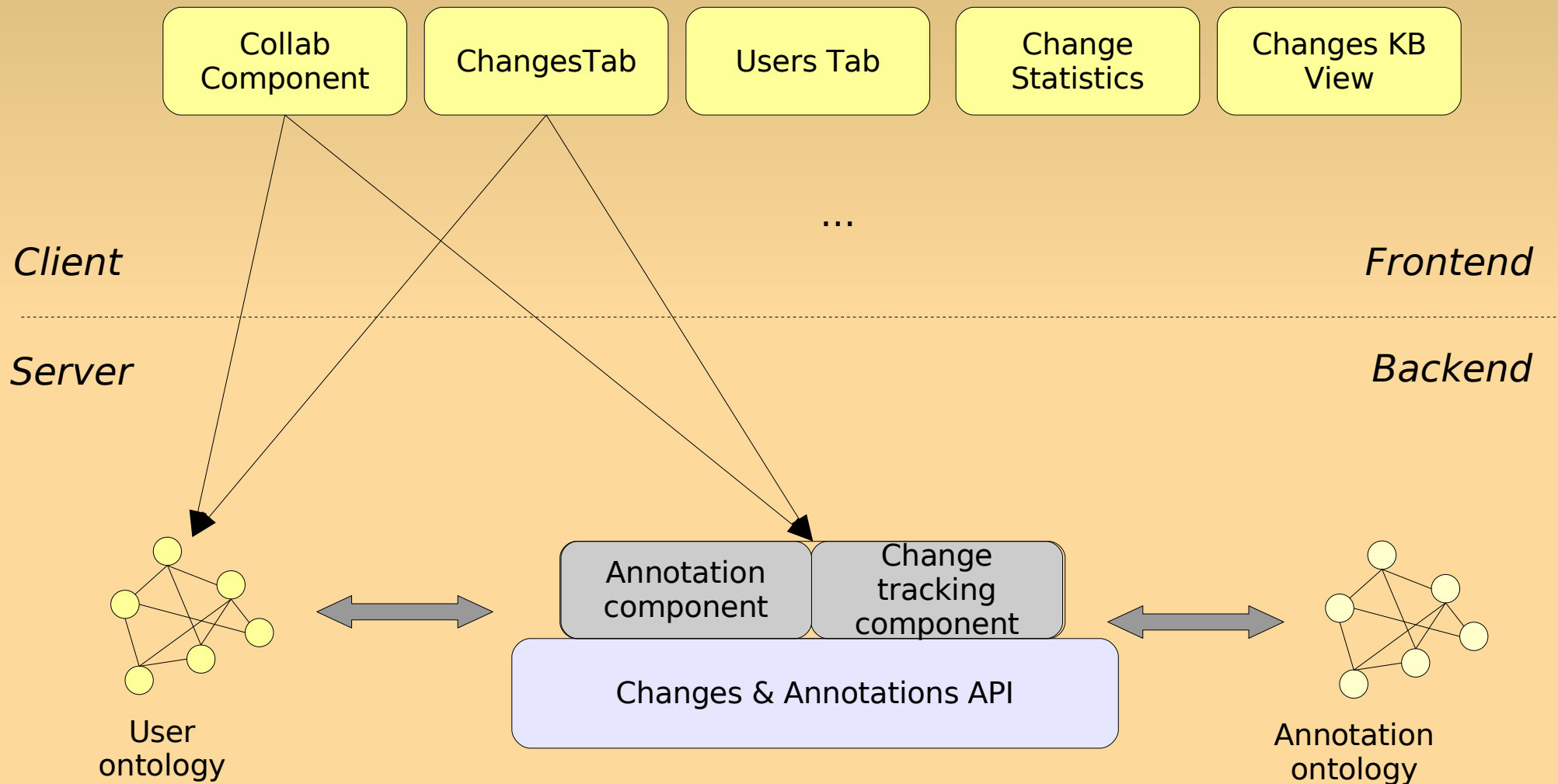
Subject: Add subclasses of Publication

Description: I think we should add subclasses to Publications. Are there any standard publication types that we could use?

Interactions in Collaborative Protégé



Architecture in client-server



Annotations & Changes Ontology

newspaper Protégé 3.3 beta (file:/work/protége/projects/collab/newspaper.pprj, Protégé Files (.pont and .pins))

File Edit Project Window Help

Classes Slots Forms Instances ChangesKBViewTab

CLASS BROWSER
For Project: ● annotation_newspaper

Class Hierarchy

- :THING
 - ▶ ● :SYSTEM-CLASS
 - ▼ ● AnnotatableThing
 - ▼ ● Annotation
 - Advice (17)
 - Comment (50)
 - Example (3)
 - Explanation (5)
 - ▶ ● Proposal
 - Question (1)
 - SeeAlso
 - ▼ ● Vote
 - AgreeDisagreeVote (2)
 - FiveStarsVote (6)
 - ▼ ● Change
 - ▶ ● Class_Change
 - Composite_Change (54)
 - ▶ ● Created_Change
 - ▶ ● Deleted_Change
 - ▶ ● Individual_Change
 - Name_Changed (21)
 - ▶ ● Property_Change
 - ▼ ● Ontology_Component
 - Ontology_Class (33)
 - Ontology_Individual (6)
 - Ontology_Property (18)
 - Timestamp (282)

INSTANCE BROWSER
For Class: ● Question

multiple slots

tania 04/20/2007 11:34:33 PDT): Why is the sky blue?

CLASS EDITOR
For Class: ● Question (instance of :STANDARD-CLASS)

Name: Question

Documentation: A class of Annotations representing questions about the content

Role: Concrete

Template Slots

Name	Cardinal...	Type	
annotates	multiple	Instance of Annotatabl...	inverse-slot=ass
associatedAnnotatic...	multiple	Instance of Annotation	inverse-slot=ann
author	single	String	
body	single	String	
context	single	String	
created	single	Instance of Timestamp	
modified	single	Instance of Timestamp	
related	single	String	

Online Demo & Documentation

- Collaborative Protege online demo & documentation:
 - <http://smi-protege.stanford.edu/collab-protege/collab-protege.html>

- CKC 2007:
 - <http://km.aifb.uni-karlsruhe.de/ws/ckc2007>