Annotation Component for a Semantic Wiki

Marek Schmidt, Pavel Smrž   Brno University of Technology, Faculty of Information Technology

`{ischmidt, smrz}@fit.vutbr.cz`

ASIDE

Valid and complete RDFa annotation produces RDF data

RDFa fields in the content are updated if the RDF values change.

1 Entity Suggestions match titles of existing content items. A user may choose the correct entity from a list of possibilities if the title is ambiguous.

2 Suggestions based on Named Entity Recognition recognize entities (person names and locations) that may not exist in the knowledge base yet.

A new entity with a correct type can be generated automatically.

3 Term suggestions, based on statistical automatic term recognition methods, suggest new entities.

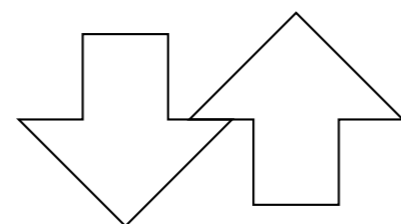Green annotations have a unique resource and a predicate.

Yellow annotations are incomplete or ambiguous.

Red annotations are inconsistent wrt. the ontology.

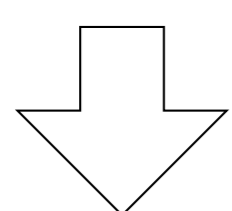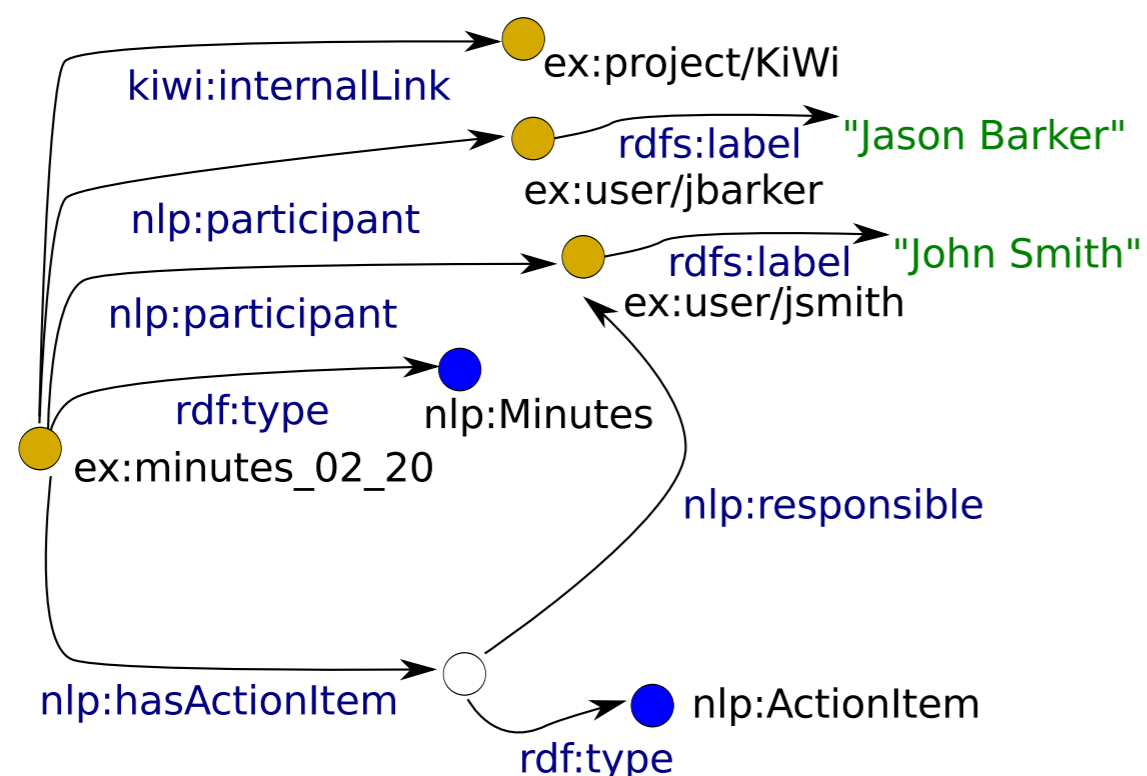**4** Type and predicate suggestions based on the ontology.

5 Nested Content Items have their own URI and so their own datatype and object properties.

RDF

HTML page includes all relevant metadata as RDFa

AMUSE

Suggestions for type "Minutes":
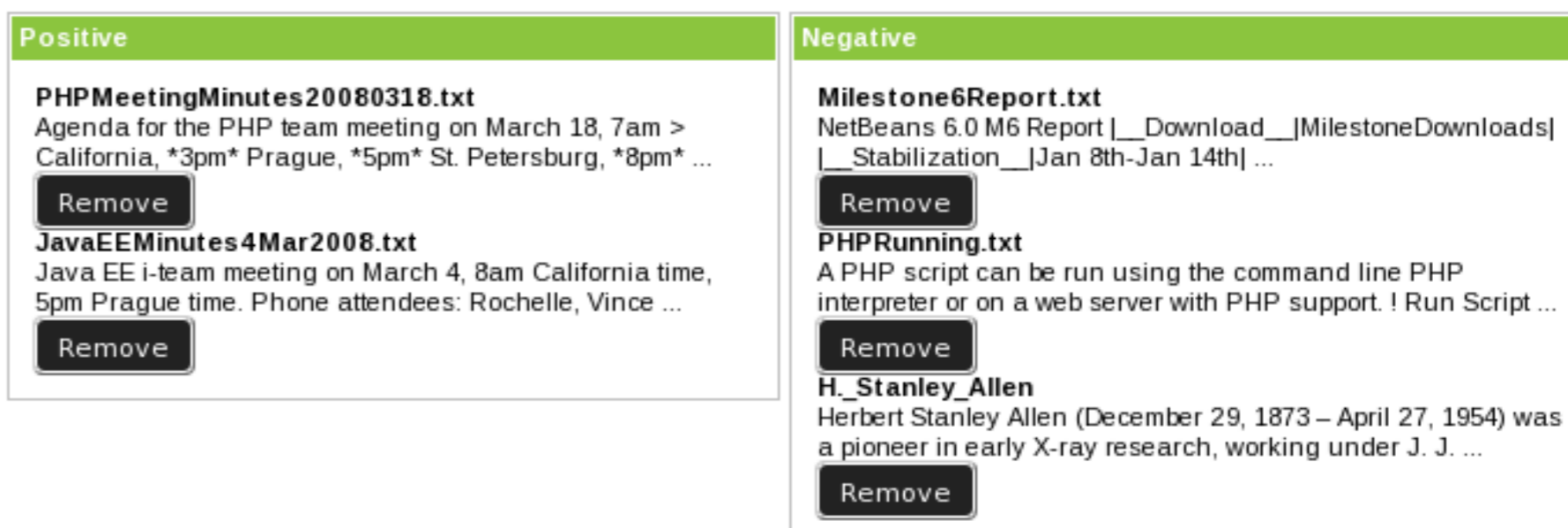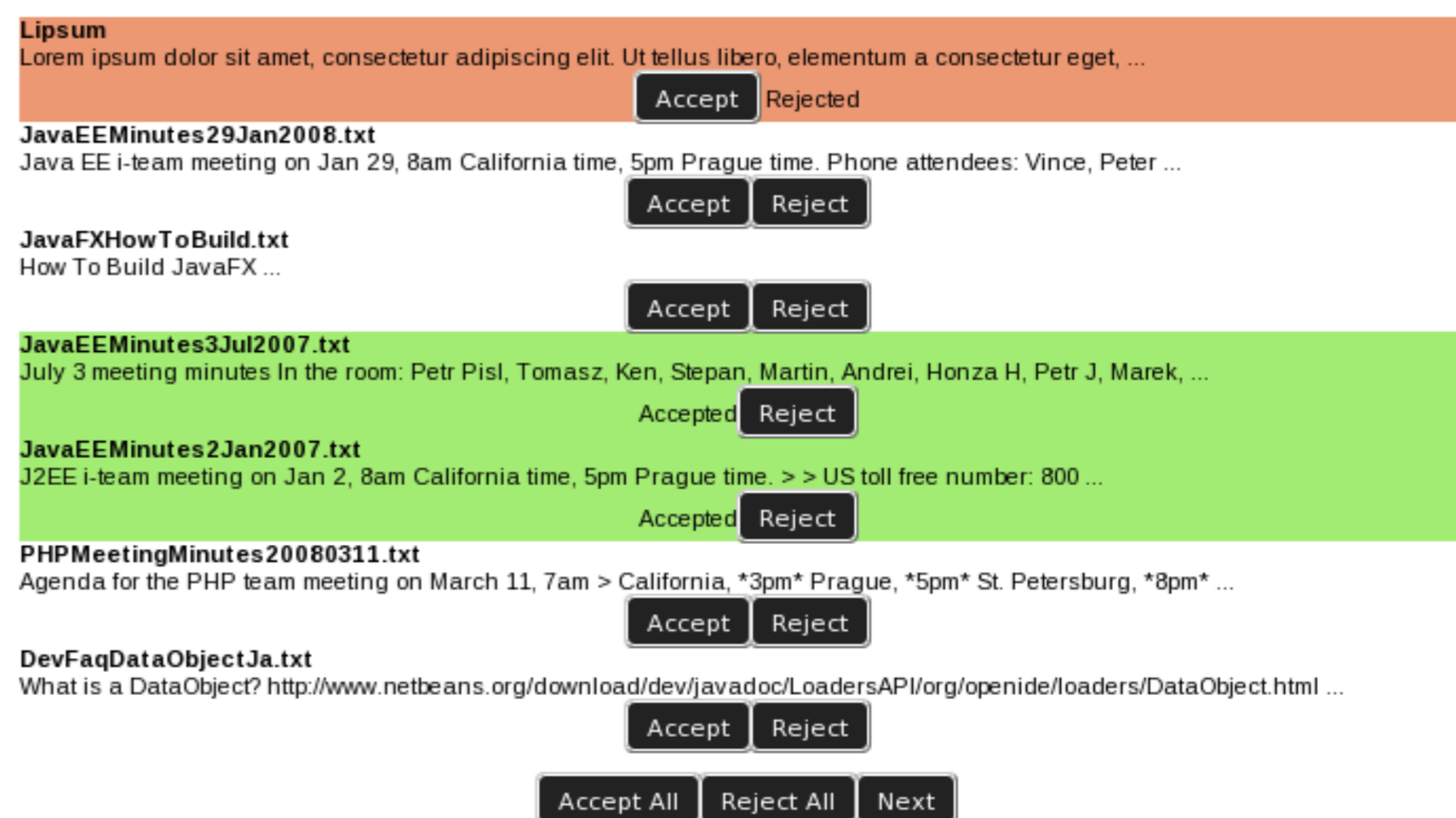
Using machine learning algorithm to annotate by example.

Suggesting Content Item tags and types based on document classification.

Suggesting RDFa link relations based on classification of contexts.

HTML+RDFa

www.kiwi-project.eu