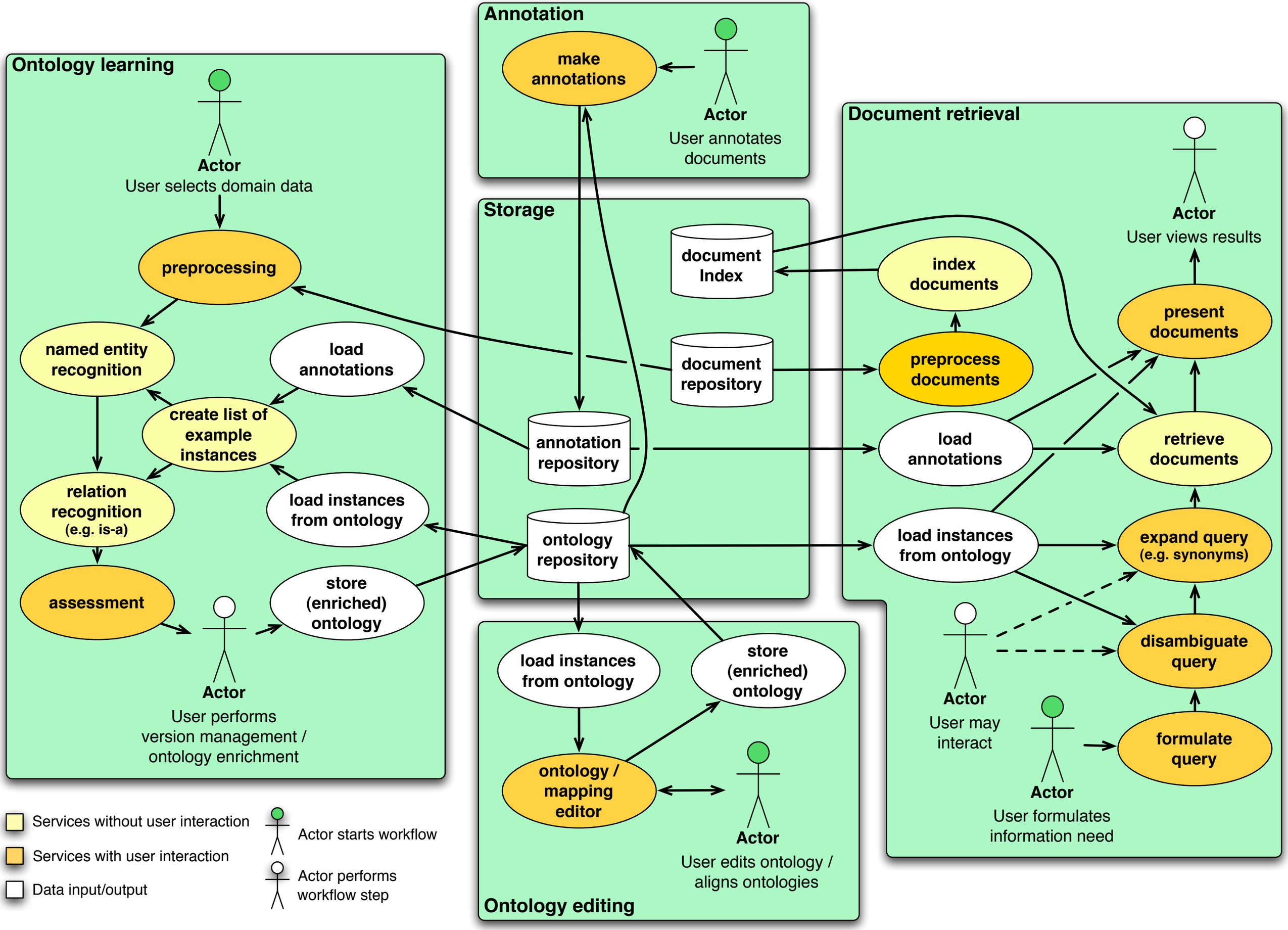
Annotation
make annotations
Actor
User annotates documents
Ontology learning
Actor
User selects domain data
preprocessing
named entity recognition
load annotations
create list of example instances
relation recognition (e.g. is-a)
load instances from ontology
assessment
store (enriched) ontology
Actor
User performs version management / ontology enrichment
Storage
document Index
document repository
annotation repository
ontology repository
Document retrieval
Actor
User views results
index documents
present documents
preprocess documents
load annotations
retrieve documents
load instances from ontology
expand query (e.g. synonyms)
disambiguate query
formulate query
Actor
User may interact
Actor
User formulates information need
load instances from ontology
store (enriched) ontology
ontology / mapping editor
Actor
User edits ontology / aligns ontologies
Ontology editing
Services without user interaction
Services with user interaction
Data input/output
Actor starts workflow
Actor performs workflow step