Workflow model for ccmapper

The basic workflow model is based on the following mapping states for a source concept:
1. **Concept mapping active** (The mapping of a concept is *active*, in progress)
2. **Concept mapping completed** (Suggested mappings are *ready for review*)
3. **Concept review active** (Review of the concept mappings is *active*, in progress)
4. **Concept review completed** (all mappings for a source concept are verified (validated/approved))

Mapping

The source concept enters the state *Active mapping* when the user saves a mapping with the concept as a subject.

A source concept may have several mappings against different concepts in the target vocabulary. The source concept enters the state *Ready for review* when the check box *completed* is checked followed by a save.

It must be possible to move from state *Ready for review* back to state *active* by removing the check in the check box *concept mapping completed* and saving again.

Technical comments:

A mapping is a triple consisting of a source concept, a relationship-type and a target concept (dewey class). There is a set of administrative metadata for an individual mapping, as a minimum *last-saved-timestamp* and *last-saved-user-id*.

There is also a set of administrative metadata for a set of mappings from a source concept, as a minimum *mapping-completed-timestamp* and *mapping-completed-user-id*. The metadata for the set should probably use the source-concept-id as a key.

Review

The source concept enters the state *Active review* when a reviewer either clicks verified for a mapping or writes a comment, and saves. (We should probably have a timestamp and user_id for this too)

If the reviewer changes the relation type or selects rejected for a suggested mapping, the project has to decide whether somebody else should review the changes before the concept can enter the *review completed* state (the workflow is like this in mµmapper).

The source concept enters the state *Concept review completed* when the reviewer checks the box *Concept review completed* and saves. (We need a timestamp for review completed and user_id for this too).

Publishing mappings

The mappings from a source concept are ready for publishing when the source concept is in the *Concept review completed* state**.**