

# DINA Taxonomy Use Cases

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<https://docs.google.com/document/d/1qrYwaPh6KwPEx2MI3RueOREQK2k70RsxtHowp7miXZc/edit?usp=sharing>

## SPECIMEN HANDLING

### A)

User identifies a specimen, using a name which is in the taxonomy database

User identifies a specimen, using a name which is in the taxonomy database duplicated (e.g. Pieris, Oenanthé)

User adds a specimen using a vernacular name. (Vertebrates)

-> User enters taxon name on input field. Autocomplete offers matching names, with information that helps to distinguish different taxa.

### API

- Return everything associated with the name, e.g.
  - name that matches the search
  - accepted name
  - accepted name id
  - author
  - accepted parent taxa names
  - rank
  - vernacular name
- Narrow search by kingdom/specific taxon
- Use vernacular name in any language as a search parameter

### B)

User identifies a specimen, using a name which is not in the taxonomy database

- a) Add name as a synonym for existing taxon
- b) Add name as a new accepted name for existing taxon
- c) Add taxon that is not in the database

C)

When selecting a name, user wants to navigate taxon tree up/down or between synonyms to find the correct name

API

- Returns accepted child taxa names
- Returns synonyms

D)

User wants to classify a collection object simultaneously under several taxonomies.  
(Geosciences)

E)

When having multiple checklists, user wants to select which one to use to define the taxon concept for a name. (Not a priority, can also be handled with a publication field.)

API:

- Returns results from all checklists
- Returns checklist name

## TAXONOMY HANDLING

A)

New taxon is added as an accepted name

B)

Taxon is renamed

- a) Typing errors correction

C)

Synonym handling

- Change accepted name into a synonym
  - a) Taxonomical corrections

#### b) Ortographic names

- Replace an accepted name by its synonym
- Change a synonym into a new accepted name
- Add a synonym for a taxon

*Example: Species is moved to a new genus (e.g. Nyctea scandiaca -> Bubo scandiacus). First a new taxon is added, then old name is changed as a synonym for this new taxon.*

*Example: Species is split into two or more species (e.g. Larus argentatus -> L. argentatus, cachinnas & michaellis). Two new species are added.*

#### D...H)

Merge duplicate names into one, preserving identifiers of both

Taxon is removed

Temporal checklist versions? Git-style?

Revert to previous version? (Or look at a previous version?)

Misapplied names

## STORAGE TAXONOMY HANDLING

When making changes to a storage taxonomy, user wants to see how many specimens the change affects. (Edge case?)

- Collection API: Returns count and/or list of collection objects that match the modified taxon.

Add and modify storage-specific information about the taxa. (eg. taxon numbers)

Is taxon available for storage?

## TODO

Add documentation to the wiki

- Terms descriptions





