Morpho - Bug #165

taxonomic search facility

10/31/2000 08:44 AM - Dan Higgins

Status: Resolved Start date: 10/31/2000

Priority: Normal Due date:

Assignee: Matt Jones % Done: 0%

Category: morpho - query Estimated time: 0.00 hour

Target version: Beta2 Spent time: 0.00 hour

Bugzilla-ld: 165

Description

Add at least simple taxonomic and spatial search capability

Related issues:

Blocked by Morpho - Bug #214: Redesign query plugin Resolved 04/09/2001

History

#1 - 04/09/2001 03:58 PM - Matt Jones

Just handle taxonomic searches under this bug.

#2 - 04/11/2001 11:32 AM - Matt Jones

Reassigned to jones.

#3 - 05/31/2001 06:58 PM - Matt Jones

Basic taxonomic string matching implemented in the QueryDialog class. Need to do term expansion and synonym lookup using ITIS (probably ITIS Canada because of its XML interface).

#4 - 06/05/2001 02:49 PM - Matt Jones

Created the "itislib" module, which contains a Java library for doing ITIS searches. itislib allows one to search for taxa, determine the parent of a taxon, determine the children of a taxon, and determine any synonyms for a taxon name. Some issues remain with the delivery of synonym data for "not accepted" taxa according to the ITIS classification.

#5 - 07/12/2001 10:24 AM - Matt Jones

Considering blankman's comments on name expansion. I agree that expanding names will be prohibitively costly at search time. Consider incorporating name expansion into insert phase for Metacat. Still plan on doing ITIS synonym lookup at search time. Reworded summary.

#6 - 07/12/2001 10:37 AM - Matt Jones

Most features are complete, lowering priority for synonym lookup feature that remains.

#7 - 09/06/2001 02:29 PM - Matt Jones

Added support for looking up taxonomic synonyms using the ITIS system. This uses the separate itislib library for doing the taxonomic query. Had to modify the QueryDialog to support generting the proper XML query and repopulating it using the new structure that supports synonyms. Now, taxon queries take one of two basic forms:

No synonyms:

QueryGroup(QueryGroup(QueryTerm,QueryTerm)))

With synonyms:

QueryGroup(QueryGroup(QueryGroup(QueryTerm,QueryTerm))))

These are each handled in the QueryDialog methods for building and repopulating taxon queries.

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At this point in time, decided not to utilize the taxon expansion features that are available in itislib because of the added cost to querying for groups that have many subtaxa. For example, if someone queries on a genus that has a thousand species, an expanded query would have a thousand additioanl terms to match against. This is too high of a cost, and so I omitted this feature.

However, we could probably acheive the same effect by including the parent taxa in the metadata either 1) when the metadata is created look it up in ITIS using Morpho/itislib, or 2) when it is submitted to Metacat, generate a separate taxon index in Metacat by looking up the taxa's parents in ITIS. In either case, the query will still be fast. The cost of course is timeliness of the info -- as the taxon names change or are added, the metadata will drift out of date, or be incomplete.

#8 - 03/27/2013 02:13 PM - Redmine Admin

Original Bugzilla ID was 165

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