

VegBank - Bug #1221

Systematic solution to querying data

11/21/2003 10:58 PM - Michael Lee

Status:	Resolved	Start date:	11/21/2003
Priority:	Normal	Due date:	
Assignee:	P. Anderson	% Done:	0%
Category:	misc	Estimated time:	0.00 hour
Target version:	1.2.0	Spent time:	0.00 hour
Bugzilla-Id:	1221		
Description			
<p>We need to figure out a systematic way of easily creating new queries to query data using fields that can somewhat easily be configured. It would be really cool to have a table like this:</p>			
<pre>QueryTable QueryFields QueryType ResultsTo ----- ----- plot XYZ simple plotOverview plot ABCD...XYZ complex plotOverview plot ABGH plantFocused plotWithTaxa plantConc ABC simple plantDetails</pre>			
<p>then each query could be called (simple, complex) based on the table to query (plot and children, obs, commConcept, userDefined, note, etc.), returning to the user a form which allows the user to specify criteria for each field that is included in the fields for that query. This form would be built from the fields that were allowed. Based on the type of field, min&max would be filled in, or boolean check, or drop-down menu, etc. Once the user presses submit, then off they go to the resultsPage specified in the ResultsTo column.</p>			
<p>OK, so if this is WAY too much, then let's scale back and see what is possible. But we know we are going to want lots of queries, each with different levels of complexity and piped to different display options. The above schema could also easily allow customizable queries that the user could build for him/herself.</p>			
Related issues:			
Blocks VegBank - Bug #1220: Need systematic approach to viewing all data in d...		Resolved	11/21/2003
Blocked by VegBank - Bug #860: Flexible plot query, user powered: DEMO		Resolved	11/13/2002
Blocked by VegBank - Bug #712: Update the forms for querying plants then comm...		Resolved	11/13/2002
Blocked by VegBank - Bug #871: Extend the Project Summary view: add more, all...		Resolved	11/13/2002

History

#1 - 12/09/2003 03:46 PM - P. Anderson

<gabe> DBModelBeanReader problem: pulling out the entire db
<gabe> if all links are followed to the end we get way too much data
<pmark> any ideas?
<gabe> rules
<pmark> instead of storing a huge list of children and their children and their children and their children and their children, etc, we could instead store some object that freezes the query, awaiting later retrieval
<pmark> a sort of virtual result
<pmark> but when you try to access that part data it is fetched then
<gabe> we could do that with the cache
<pmark> totally!
<pmark> InstaCache
<gabe> but we would have huge objects in memory
<gabe> where most of the data is useless
<pmark> FileCache
<pmark> Serialize it
<gabe> it is
<pmark> so then garbage collect it after writing to file cache
<pmark> what am i missing?

<gabe> but sometimes you have to bring it into memory to display, write out as XML etc.

<pmark> true, but not a huge portion of the entire observation tree

<gabe> so smart reading of the cache portion by portion?

<pmark> exactly

<pmark> could be totally transparent to client

<pmark> would still need rules, I think

<gabe> yes, exactly

<pmark> perhaps simple config per element

<pmark> per element per request

<pmark> (multiple views of same data)

<gabe> not following

<pmark> we might want to retrieve only data from observation

<pmark> or obs. plus strata

<pmark> or obs + plot

<gabe> yes, driven by request

<pmark> by default it should just go to terminals, get all data, all children

<pmark> optionally use progressive caching

<pmark> optionally limit results

<pmark> is this the direction you want it to go?

<gabe> yes this sounds like the direction

#2 - 08/10/2004 09:56 AM - Michael Lee

This is really the same as 1220, because both have to specify criteria for some data to get from the db and then display it. Once the viewing capability is up and running, creating a search page to feed the view (with SQL, criteria, and result view) will be simple.

- This bug has been marked as a duplicate of 1220 ***

#3 - 03/27/2013 02:16 PM - Redmine Admin

Original Bugzilla ID was 1221