

EDIT - bug #9814

Advanced search webservice for area throws NPE (mexico portal)

10/18/2021 11:58 AM - Andreas Müller

Status:	Closed	Start date:	
Priority:	New	Due date:	
Assignee:	Andreas Müller	% Done:	100%
Category:	cdmlib	Estimated time:	0:00 hour
Target version:	Release 5.28	Found in Version:	
Severity:	critical		
Description			
... Die Area-Terme in der Suche fehlen gerade komplett, das der Webservice nichts zurückliefert: https://132.248.13.83/cdmserver/cdm_flora_mexico/description/namedAreasInUse.json?includeAllParents=true&pageIndex=0&pageSize=500 :			
... 98 common frames omitted Caused by: java.lang.NullPointerException: null at eu.etaxonomy.cdm.persistence.dto.TermDto.getVocRepresentation_L10n_abbreviatedLabel(TermDto.java:154) ... 108 common frames omitted			
Das ist offensichtlich ein Bug im TermDto, bis dieser behoben ist sollten wir darauf achten, dass für alle Area-Terme das abbreviatedLabel angegeben ist.			

Associated revisions

Revision d4542f66 - 10/18/2021 02:06 PM - Andreas Müller

ref #9814 fix NPE in TermDto.getVocRepresentation_L10n (+..._abbreviatedLabel)

Revision dfd8da23 - 10/21/2021 09:29 AM - Katja Luther

ref #9814: add vocDto to termDto

Revision 4af8adcf - 10/26/2021 02:01 PM - Katja Luther

ref #9814: rename findByTitlesAsDto method to findByTitleAsDtoWithVocDto

Revision 13866815 - 10/26/2021 02:03 PM - Katja Luther

ref #9814: adapt method in editor

Revision f1f5966b - 10/26/2021 04:31 PM - Andreas Müller

ref #9814 cache vocabularyDtos when loading termDTOs

Revision cb291ebd - 10/26/2021 04:48 PM - Andreas Müller

ref #9814 fix vocabularyDtos caching

History

#1 - 10/18/2021 12:02 PM - Andreas Müller

- Description updated

This is strange, the actual method `getVocRepresentation_L10n_abbreviatedLabel()` is never called in `cdmlib` so I don't understand why an NPE can be thrown.

#2 - 10/18/2021 02:09 PM - Andreas Müller

- Status changed from *New* to *Feedback*

- Assignee changed from *Andreas Müller* to *Andreas Kohlbecker*

- % Done changed from *0* to *30*

I fixed the NPE so it does not throw an exception anymore. However, we need to discuss how the TermDTO should behave. Currently the constructor only takes the `vocabulary.uuid` and therefor no representations for vocabulary are available. Do we need those?

As said before the method is never called directly in cdmlib. Only jason seems to call it during serealization. If none of the webservice users(probably only the dataportal) needs the label we should maybe remove this method.

This issue came with commit cdmlib:71559ffe9c (KL, 2021-09-15) which removed vocRepresentations from the termDTO.

KL + AK can you please both check if you think the vocabulary representation is always needed in this DTO or only if it is explicitly set via setVocabularyDto(TermVocabularyDto vocabularyDto) method or by using the factory method fromTerm(...)?

I give this ticket first to AK for check if the method is needed at all. If yes, we should have some tests that guarantee that voc labels are available in the context where it is needed.

#3 - 10/18/2021 03:59 PM - Andreas Kohlbecker

- Assignee changed from Andreas Kohlbecker to Katja Luther

this method is only used in the TaxEditor:

```
eu.etaxonomy.taxeditor.store/src/main/java/eu/etaxonomy/taxeditor/view/search/facet/term/TermSearchResult.java
:
facets.add(new Facet(((TermDto) content).getVocRepresentation_L10n(), termType!=null?termType.getLabel():null))
;
```

thus passing the ticket to you Katja

#4 - 10/19/2021 03:21 PM - Andreas Müller

I checked advance search on test servers and it works again: http://test.e-taxonomy.eu/dataportal/preview/euromed/cdm_dataportal/search

#5 - 10/21/2021 09:30 AM - Katja Luther

- Status changed from Feedback to Resolved

- Assignee changed from Katja Luther to Andreas Kohlbecker

Added the vocDto to termDto when creating the termDto because the voc representations are needed for the term search. please review, if everything else still works. Already tested the advanced search for e+m

#6 - 10/26/2021 10:49 AM - Andreas Kohlbecker

- Status changed from Resolved to Feedback

- Assignee changed from Andreas Kohlbecker to Katja Luther

1. I think adding the VocDto to the termDTOs bloats the reponses with a lot of redundant information. In most cases the terms returned by /description/namedAreasInUse.json will belong to the same vocabulary. Adding the vocabulary uuids to the termDTO would be much more efficient. If needed, we could introduce a TermListDTO which allows for a normalized representation of termDTOs and VocabDTOs.
2. In the reponse of <http://test.e-taxonomy.eu/cdmserver/euromed/description/namedAreasInUse.json> the vocabularyDto is always null, so something is not working as expected here, otherwise this it not really relevant if we agree in not adding the vocDTo to the termDTOs

#7 - 10/26/2021 01:39 PM - Andreas Müller

- Target version changed from Release 5.45 to Release 5.28

#8 - 10/26/2021 02:49 PM - Katja Luther

- Target version changed from Release 5.28 to Release 5.45

Andreas Kohlbecker wrote:

1. I think adding the VocDto to the termDTOs bloats the reponses with a lot of redundant information. In most cases the terms returned by /description/namedAreasInUse.json will belong to the same vocabulary. Adding the vocabulary uuids to the termDTO would be much more efficient. If needed, we could introduce a TermListDTO which allows for a normalized representation of termDTOs and VocabDTOs.
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The vocabulary Dto is added in the dao method, so I changed the name of this method to findByTitleAsDtoWithVocDto, actually it is used only for the term search, where the vocabulary information is needed.

#9 - 10/26/2021 03:39 PM - Andreas Müller

- Target version changed from Release 5.45 to Release 5.28

#10 - 10/26/2021 03:41 PM - Andreas Müller

who is now in charge of this ticket?

#11 - 10/26/2021 03:52 PM - Andreas Müller

In the mentioned method you iterate over all returned dtos and for each you run a query to retrieve the VocDto. This is highly inperformant. As the vocabulary is usually highly redundant (most terms come from the same voc). Why don't you hold the result in a Map and only run the query for those vocabularies not yet loaded?

#12 - 10/26/2021 04:33 PM - Andreas Müller

Andreas Müller wrote:

In the mentioned method you iterate over all returned dtos and for each you run a query to retrieve the VocDto. This is highly inperformant. As the vocabulary is usually highly redundant (most terms come from the same voc). Why don't you hold the result in a Map and only run the query for those vocabularies not yet loaded?

I fixed this. Please review.

#13 - 10/26/2021 04:36 PM - Andreas Müller

- *Status changed from Feedback to Resolved*

- *% Done changed from 30 to 50*

I think in general this ticket is fixed as the webservice and TaxEditor do use 2 different methods to initialize the TermDTO (with or without full vocabulary DTO). So I suggest to close it once KL has reviewed my last changes.

However, it shows the DTO handling is still very chaotic and urgently needs more structure. But this needs to be done in another context I guess.

#14 - 10/27/2021 10:47 AM - Katja Luther

- *Status changed from Resolved to Closed*

- *Assignee changed from Katja Luther to Andreas Müller*

This works as expected.

#15 - 10/27/2021 10:47 AM - Katja Luther

- *% Done changed from 50 to 100*