

EDIT - bug #9772

Improve DTO usage for character matrix

09/20/2021 01:43 PM - Katja Luther

Status:	Closed	Start date:	
Priority:	New	Due date:	
Assignee:	Katja Luther	% Done:	100%
Category:	cdmlib	Estimated time:	0:00 hour
Target version:	Release 5.27	Found in Version:	
Severity:	normal		
Description			
The character matrix still uses cdm objects for descriptive dataset and descriptions, we need to switch to DTOs as well.			
The DTOs should not use cdm objects for creation but pure sql statements.			
Discussion on open issues started in #9710 . So please see also there for open issues.			
Related issues:			
Related to EDIT - feature request #9084: Make it configurable if a Descriptio...		Resolved	
Related to EDIT - bug #9781: Merge of QuantitativeData or CategoricalData fro...		New	
Related to EDIT - bug #9800: Open issues for character matrix		In Progress	
Related to EDIT - task #9842: Improve performance for loading DDS (RowWrapper...		In Progress	
Related to EDIT - bug #9885: Write tests for all rowWrapper issues		New	
Copied from EDIT - bug #9710: DataIntegrityViolationException after adding a ...		Closed	
Copied to EDIT - bug #9785: Update script for missing measurment unit_ids (ma...		Closed	

Associated revisions

Revision 71559ffe - 09/15/2021 12:29 PM - Katja Luther

ref #9710: switch to dtos for descriptive data set and descriptions for character matrix

Revision 66889a42 - 09/15/2021 01:00 PM - Katja Luther

ref #9710: do not use cdm objects for dds and descriptions in character matrix

Revision 5bf13b75 - 09/15/2021 01:32 PM - Katja Luther

ref #9710: missed adaption in StructuredAggregationConfigurationWizard

Revision 10f4a3fd - 09/20/2021 10:11 AM - Katja Luther

ref #9710: avoid NPEs

Revision e128bbe9 - 09/20/2021 01:47 PM - Katja Luther

ref #9772: adapt QuantitativeDataDialogComposite to dto usage

Revision 83db01f8 - 09/21/2021 03:42 PM - Katja Luther

ref #9772: deproxy the term in getTermByClassAndUUID

Revision 2966c278 - 09/21/2021 04:02 PM - Katja Luther

ref #9772: smaller changes

Revision 7a8c920c - 09/22/2021 09:11 AM - Katja Luther

ref #9772: fix missing unit

Revision e1fef636 - 09/23/2021 10:32 AM - Katja Luther

ref #9772: fix getting taxonRowWrapper

Revision c4f29439 - 09/23/2021 11:03 AM - Katja Luther

ref #9772: fix getting taxonRowWrapper - continue

Revision 446189d9 - 09/23/2021 01:48 PM - Katja Luther

ref #9772: fix handling when more than 1 unit is choosable

Revision 6bcb1685 - 09/23/2021 01:50 PM - Katja Luther

ref #9772: avoid NPE

Revision 8b7732ac - 09/23/2021 01:56 PM - Katja Luther

ref #9772: fix handling when more than 1 unit is choosable - continue

Revision 49fee2fb - 09/23/2021 04:22 PM - Katja Luther

ref #9772: avoid another NPE

Revision bb25976f - 09/23/2021 05:16 PM - Katja Luther

ref #9772: fix handling when more than 1 unit is choosable - continue

Revision e719e550 - 09/24/2021 09:56 AM - Katja Luther

ref #9772: fix problems with more than one description for one taxon

Revision 2c37ed60 - 09/24/2021 11:12 AM - Katja Luther

ref #9772: avoid NPE in aggregation handler

Revision 41fe4def - 09/24/2021 11:39 AM - Katja Luther

ref #9772: avoid NPE in aggregation handler - continue

Revision a0f0c203 - 09/30/2021 07:53 AM - Katja Luther

ref #9772: fix problems with rowWrapper

Revision a0914872 - 09/30/2021 07:58 AM - Katja Luther

ref #9772: fix problems with rowWrapper

Revision bd94706c - 09/30/2021 10:05 AM - Katja Luther

ref #9772: fix problems with doubled states in literature descriptions

Revision 926b7eda - 09/30/2021 10:40 AM - Katja Luther

ref #9772: continue solving problems with rowWrapper

Revision bb03a041 - 09/30/2021 10:51 AM - Katja Luther

ref #9772: redraw after literature desc creation and code cleaning

Revision 4512ae1c - 09/30/2021 12:50 PM - Katja Luther

ref #9772: code cleaning

Revision 1475999b - 09/30/2021 01:49 PM - Katja Luther

ref #9772: revert some changes in l10n

Revision 45140a15 - 09/30/2021 06:32 PM - Katja Luther

ref #9772: do not create empty elements in taxon descriptions

Revision e0bfdfcc - 10/04/2021 12:23 PM - Katja Luther

ref #9772: add collectors string with collector and collectorsnumber

Revision 337fab7d - 10/04/2021 12:25 PM - Katja Luther

ref #9772: fix collector and number

Revision 64e5bc9f - 10/04/2021 12:54 PM - Katja Luther

ref #9772: add collectors string with collector and collectorsnumber

Revision 44ddcdb3 - 10/04/2021 02:08 PM - Katja Luther

ref #9772: check for changes before start aggregation

Revision d10e83d5 - 10/04/2021 02:44 PM - Andreas Müller

ref #9772 cleanup SpecimenOrObservationBaseDTO (cont.)

Revision c61c9db0 - 10/05/2021 09:57 AM - Katja Luther

code cleaning, move hql queries to dao

Revision 3ed10837 - 10/05/2021 10:53 AM - Katja Luther

ref #9772: code cleaning - move hql code to persistence

Revision 128317f4 - 10/05/2021 01:15 PM - Katja Luther

code cleaning

Revision b3c135e2 - 10/05/2021 01:17 PM - Katja Luther

code cleaning

Revision 472080b4 - 10/07/2021 10:26 AM - Katja Luther

ref #9772: fix doubled menu items

Revision 4ca90889 - 10/08/2021 11:07 AM - Katja Luther

ref #9772: adapt collectorstring, use collectorTitleCache

Revision a9b7ea5d - 10/08/2021 03:56 PM - Andreas Müller

ref #9772 add depoxy to collector title computation

Revision 97fb032d - 10/27/2021 05:34 PM - Katja Luther

first steps for rowwrapper tests

Revision 1207266e - 11/03/2021 07:29 PM - Andreas Müller

ref #9772 , ref #9842 cleanup rowwrapper test

History

#1 - 09/20/2021 01:43 PM - Katja Luther

- Target version changed from Unassigned CDM tickets to Release 5.45

#2 - 09/20/2021 01:45 PM - Katja Luther

- Status changed from New to In Progress

Now DescriptiveDatasetDto is used and the rowWrapper uses DescriptionDtos as well.

#3 - 09/20/2021 01:58 PM - Andreas Müller

- Copied from bug #9710: DataIntegrityViolationException after adding a specimen to the matrix added

#4 - 09/20/2021 02:01 PM - Andreas Müller

- Description updated

#5 - 09/20/2021 02:04 PM - Andreas Müller

Katja Luther wrote:

I also checked the actual nightly build and your test DB and all values are shown.

Now I could reproduce this behaviour, if a second exact value with min/max is added, the type is set to null...

I checked again and found that in the default perspective (Taxonomic) it shows up correctly while in the "Descriptive Dataset" perspective the problem appears. Can you check this?

#6 - 09/20/2021 02:08 PM - Andreas Müller

I got when saving

```
last remote method : http://test.e-taxonomy.eu:80/cdmserver/rem_conf_am/remoting/common.service
last remote request client time : 2021-09-20T14:07:25.08
last remote request response header time : Mon, 20 Sep 2021 12:07:25 GMT
client error time : 2021-09-20T14:07:25.127
login : admin
editor version : 5.27.0.202109200833
server : test.e-taxonomy.eu (edit-test) / rem_conf_am
schema version : 5.27.0.0.20210913
os : Windows Server 2012 R2 6.3 amd64
java : 1.8.0_131
org.eclipse.e4.core.di.InjectionException: java.lang.NullPointerException
    at org.eclipse.e4.core.internal.di.MethodRequestor.execute(MethodRequestor.java:65)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invokeUsingClass(InjectorImpl.java:282)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invoke(InjectorImpl.java:247)
    at org.eclipse.e4.core.contexts.ContextInjectionFactory.invoke(ContextInjectionFactory.java:90)
    at org.eclipse.e4.ui.internal.workbench.PartServiceSaveHandler.save(PartServiceSaveHandler.java:57)
    at org.eclipse.ui.internal.WorkbenchWindow$7.save(WorkbenchWindow.java:594)
    at org.eclipse.e4.ui.internal.workbench.PartServiceImpl.savePart(PartServiceImpl.java:1390)
    at eu.etaxonomy.taxeditor.workbench.SaveHandler.execute(SaveHandler.java:38)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.eclipse.e4.core.internal.di.MethodRequestor.execute(MethodRequestor.java:55)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invokeUsingClass(InjectorImpl.java:282)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invoke(InjectorImpl.java:264)
    at org.eclipse.e4.core.contexts.ContextInjectionFactory.invoke(ContextInjectionFactory.java:132)
    at org.eclipse.e4.core.commands.internal.HandlerServiceHandler.execute(HandlerServiceHandler.java:152)
    at org.eclipse.core.commands.Command.executeWithChecks(Command.java:494)
    at org.eclipse.core.commands.ParameterizedCommand.executeWithChecks(ParameterizedCommand.java:488)
    at org.eclipse.e4.core.commands.internal.HandlerServiceImpl.executeHandler(HandlerServiceImpl.java:210)
    at org.eclipse.e4.ui.workbench.renderers.swt.HandledContributionItem.executeItem(HandledContributionItem.java:433)
    at org.eclipse.e4.ui.workbench.renderers.swt.AbstractContributionItem.handleWidgetSelection(AbstractContributionItem.java:454)
    at org.eclipse.e4.ui.workbench.renderers.swt.AbstractContributionItem$3.handleEvent(AbstractContributionItem.java:482)
    at org.eclipse.swt.widgets.EventTable.sendEvent(EventTable.java:84)
    at org.eclipse.swt.widgets.Display.sendEvent(Display.java:4418)
    at org.eclipse.swt.widgets.Widget.sendEvent(Widget.java:1079)
    at org.eclipse.swt.widgets.Display.runDeferredEvents(Display.java:4236)
    at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:3824)
    at org.eclipse.e4.ui.internal.workbench.swt.PartRenderingEngine$4.run(PartRenderingEngine.java:1121)
    at org.eclipse.core.databinding.observable.Realm.runWithDefault(Realm.java:336)
    at org.eclipse.e4.ui.internal.workbench.swt.PartRenderingEngine.run(PartRenderingEngine.java:1022)
    at org.eclipse.e4.ui.internal.workbench.E4Workbench.createAndRunUI(E4Workbench.java:150)
    at org.eclipse.e4.ui.internal.Workbench$5.run(Workbench.java:693)
    at org.eclipse.core.databinding.observable.Realm.runWithDefault(Realm.java:336)
    at org.eclipse.ui.internal.Workbench.createAndRunWorkbench(Workbench.java:610)
    at org.eclipse.ui.PlatformUI.createAndRunWorkbench(PlatformUI.java:148)
    at eu.etaxonomy.taxeditor.Application.start(Application.java:20)
    at org.eclipse.equinox.internal.app.EclipseAppHandle.run(EclipseAppHandle.java:196)
    at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.runApplication(EclipseAppLauncher.java:134)
)
    at org.eclipse.core.runtime.internal.adaptor.EclipseAppLauncher.start(EclipseAppLauncher.java:104)
    at org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:388)
    at org.eclipse.core.runtime.adaptor.EclipseStarter.run(EclipseStarter.java:243)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.eclipse.equinox.launcher.Main.invokeFramework(Main.java:673)
    at org.eclipse.equinox.launcher.Main.basicRun(Main.java:610)
    at org.eclipse.equinox.launcher.Main.run(Main.java:1519)
Caused by: java.lang.NullPointerException
    at eu.etaxonomy.cdm.persistence.dto.TermDto.fromTerm(TermDto.java:85)
    at eu.etaxonomy.cdm.persistence.dto.TermDto.fromTerm(TermDto.java:73)
    at eu.etaxonomy.cdm.api.service.dto.StatisticalMeasurementValueDto.fromStatisticalMeasurementValue(Statist
```

```

icalMeasurementValueDto.java:34)
    at eu.etaxonomy.cdm.api.service.dto.QuantitativeDataDto.fromQuantitativeData(QuantitativeDataDto.java:46)
    at eu.etaxonomy.cdm.api.service.dto.DescriptionBaseDto.fromDescription(DescriptionBaseDto.java:249)
    at eu.etaxonomy.taxeditor.editor.descriptiveDataSet.matrix.CharacterMatrixPart.save(CharacterMatrixPart.java:249)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.eclipse.e4.core.internal.di.MethodRequestor.execute(MethodRequestor.java:55)
    ... 48 more

```

#7 - 09/20/2021 02:25 PM - Andreas Müller

Changes in data do currently not get persisted

#8 - 09/20/2021 02:43 PM - Katja Luther

Andreas Müller wrote:

Katja Luther wrote:

I also checked the actual nightly build and your test DB and all values are shown.

Now I could reproduce this behaviour, if a second exact value with min/max is added, the type is set to null...

I checked again and found that in the default perspective (Taxonomic) it shows up correctly while in the "Descriptive Dataset" perspective the problem appears. Can you check this?

Also with perspective "Descriptive Dataset" and on pesi-hpc I can not reproduce this behaviour...

#9 - 09/20/2021 02:54 PM - Katja Luther

Andreas Müller wrote:

Changes in data do currently not get persisted

Did you restart the server?

#10 - 09/20/2021 03:04 PM - Andreas Müller

- Status changed from In Progress to Resolved

- % Done changed from 0 to 30

I put this to resolved as it is for review.

#11 - 09/20/2021 03:54 PM - Andreas Müller

now the matrix is visible also in DDS perspective again. For whatever reason the problem seems to be solved.

#12 - 09/20/2021 09:41 PM - Andreas Müller

Katja Luther wrote:

Andreas Müller wrote:

Changes in data do currently not get persisted

Did you restart the server?

AM:

It was restarted after your last cdmlib commit. Ahh, but first time cdmlib did not build. OK, I try again.

#13 - 09/20/2021 09:45 PM - Andreas Müller

The error changed a bit but I still get an NPE regarding the StatMeasureValues.type:

```

last remote method : http://test.e-taxonomy.eu:80/cdmserver/rem_conf_am/remoting/progressmonitor.service
last remote request client time : 2021-09-20T15:55:03.484

```

```

last remote request response header time : Mon, 20 Sep 2021 13:55:03 GMT
client error time : 2021-09-20T15:55:03.5
login : admin
editor version : 5.27.0.202109201248
server : test.e-taxonomy.eu (edit-test) / rem_conf_am
schema version : 5.27.0.0.20210913
os : Windows Server 2012 R2 6.3 amd64
java : 1.8.0_131
java.lang.NullPointerException
    at eu.etaxonomy.cdm.api.service.dto.QuantitativeDataDto.getSpecificStatisticalValue(QuantitativeDataDto.java:76)
    at eu.etaxonomy.cdm.api.service.dto.RowWrapperDTO.generateQuantitativeDataString(RowWrapperDTO.java:141)
    at eu.etaxonomy.cdm.api.service.dto.RowWrapperDTO.generateDisplayString(RowWrapperDTO.java:133)
    at eu.etaxonomy.cdm.api.service.dto.RowWrapperDTO.<init>(RowWrapperDTO.java:61)
    at eu.etaxonomy.cdm.api.service.dto.SpecimenRowWrapperDTO.<init>(SpecimenRowWrapperDTO.java:38)
    at eu.etaxonomy.cdm.api.service.DescriptiveDataSetService.createSpecimenRowWrapper(DescriptiveDataSetService.java:425)
    at eu.etaxonomy.cdm.api.service.DescriptiveDataSetService.createSpecimenRowWrapper(DescriptiveDataSetService.java:432)
    at eu.etaxonomy.cdm.api.service.DescriptiveDataSetService.getRowWrapper(DescriptiveDataSetService.java:157)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java:333)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(ReflectiveMethodInvocation.java:190)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:157)
    at org.springframework.transaction.interceptor.TransactionInterceptor$1.proceedWithInvocation(TransactionInterceptor.java:99)
    at org.springframework.transaction.interceptor.TransactionAspectSupport.invokeWithinTransaction(TransactionAspectSupport.java:283)
    at org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:96)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:179)
    at org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy.java:213)
    at com.sun.proxy.$Proxy737.getRowWrapper(Unknown Source)
    at eu.etaxonomy.cdm.api.service.longrunningService.LongRunningTasksService$1.doRun(LongRunningTasksService.java:72)
    at eu.etaxonomy.cdm.common.monitor.RemotingProgressMonitorThread.run(RemotingProgressMonitorThread.java:42)
)

```

#14 - 09/20/2021 09:49 PM - Andreas Müller

Andreas Müller wrote:

The error changed a bit but I still get an NPE regarding the StatMeasureValues.type:

I checked the above and it is still that type=null data is created. Please check yourself with nightly and search for null values in the DB by

```

SELECT *
FROM StatisticalMeasurementValue smv
WHERE smv.type_id IS NULL

```

after editing StatMeasureValues.

#15 - 09/20/2021 10:03 PM - Andreas Müller

- Status changed from Resolved to Feedback

There seems to be another issue: when I change only 1 record 8 new records are added in the DB but only 1 should be added. Very strange is that some values are stored which do not appear in the matrix at all (e.g. id=(390,391) in rem_conf_am.StatisticalMeasurementValues with values 445,000 and 2222,0000 which are not visible in the matrix).

Even after only updating a record **4 new records** were created. In this case they were all from the same specimen record (in the same line there were 4 StatMeasureValues) but ofcourse the other record should not be created but left as they are. All 4 of them were missing the type_id as mentioned above.

#16 - 09/21/2021 11:33 AM - Andreas Müller

- Related to feature request #9084: Make it configurable if a Description is deleted only from the Descriptive Data Set or from it's Specimen/Taxon

added

#17 - 09/21/2021 02:14 PM - Andreas Müller

- Target version changed from Release 5.45 to Release 5.27

#18 - 09/21/2021 03:56 PM - Katja Luther

- Target version changed from Release 5.27 to Release 5.45

Andreas Müller wrote:

There seems to be another issue: when I change only 1 record 8 new records are added in the DB but only 1 should be added. Very strange is that some values are stored which do not appear in the matrix at all (e.g. id=(390,391) in rem_conf_am.StatisticalMeasurementValues with values 445,000 and 2222,0000 which are not visible in the matrix).

Even after only updating a record **4 new records** were created. In this case they were all from the same specimen record (in the same line there were 4 StatMeasureValues) but ofcourse the other record should not be created but left as they are. All 4 of them were missing the type_id as mentioned above.

This is because all statisticalMeasurementValues of the updated description are newly created, this is the same as before.

#19 - 09/21/2021 03:56 PM - Katja Luther

- Target version changed from Release 5.45 to Release 5.27

#20 - 09/21/2021 11:14 PM - Andreas Müller

The smv.type_id IS NULL issue seems to be solved now. But there is another critical issue: the unit_id is often null for quantitative data though a unit is shown in the popup dialogue for entering data. In the matrix the unit sometimes appears, sometimes it does not. This needs to be checked.

#21 - 09/22/2021 09:03 AM - Katja Luther

Andreas Müller wrote:

The smv.type_id IS NULL issue seems to be solved now. But there is another critical issue: the unit_id is often null for quantitative data though a unit is shown in the popup dialogue for entering data. In the matrix the unit sometimes appears, sometimes it does not. This needs to be checked.

this is fixed with the next commit.

#22 - 09/22/2021 11:29 AM - Katja Luther

- Status changed from Feedback to Resolved

- Assignee changed from Katja Luther to Andreas Müller

Save should not create new states or statistical values, but I think this is a new ticket because it is no regression. Therefore this ticket is resolved (NPE and missing unit is solved)

#23 - 09/22/2021 01:44 PM - Katja Luther

- Related to bug #9781: Merge of QuantitativeData or CategoricalData from Character Matrix should not create new records added

#24 - 09/22/2021 06:22 PM - Andreas Müller

We will need an update script to try to update existing data (in greece-bupleurum there are 787 quantitative data without unit_id)

#25 - 09/22/2021 06:26 PM - Andreas Müller

If the unit is changed via the quantitative data editing dialog and persisted this change does not appear in the database

#26 - 09/22/2021 06:27 PM - Andreas Müller

- Status changed from Resolved to Feedback

- Assignee changed from Andreas Müller to Katja Luther

#27 - 09/22/2021 06:44 PM - Andreas Müller

- Tags set to additivity

Values are not persisted when entered into a taxon description (literatur description or default description). Or maybe there is another reason. I tested

on "AM test dataset with the topmost 3 literatur description and a newly created default description.

This is critical and needs to be fixed before the release.

#28 - 09/23/2021 11:15 AM - Katja Luther

- Tags deleted (additivity)

Andreas Müller wrote:

Values are not persisted when entered into a taxon description (literatur description or default description). Or maybe there is another reason. I tested on "AM test dataset with the topmost 3 literatur description and a newly created default description.

This is critical and needs to be fixed before the release.

this is fixed with the last cdmlib commit.

#29 - 09/23/2021 01:43 PM - Andreas Müller

Katja Luther wrote:

Andreas Müller wrote:

Values are not persisted when entered into a taxon description (literatur description or default description). Or maybe there is another reason. I tested on "AM test dataset with the topmost 3 literatur description and a newly created default description.

This is critical and needs to be fixed before the release.

this is fixed with the last cdmlib commit.

When testing I got

```
last remote method : http://test.e-taxonomy.eu:80/cdmserver/rem_conf_am/remoting/description.service
last remote request client time : 2021-09-23T13:41:56.755
last remote request response header time : Thu, 23 Sep 2021 11:41:57 GMT
client error time : 2021-09-23T13:41:56.958
login : admin
editor version : 5.27.0.202109230931
server : test.e-taxonomy.eu (edit-test) / rem_conf_am
schema version : 5.27.1.0.20210922
os : Windows Server 2012 R2 6.3 amd64
java : 1.8.0_131
org.eclipse.e4.core.di.InjectionException: java.lang.NullPointerException
    at org.eclipse.e4.core.internal.di.MethodRequestor.execute(MethodRequestor.java:65)
    at org.eclipse.e4.core.internal.di.InjectorImpl.invokeUsingClass(InjectorImpl.java:282)
    ...
Caused by: java.lang.NullPointerException
    at eu.etaxonomy.cdm.api.service.DescriptionServiceImpl.mergeDescriptions(DescriptionServiceImpl.java:509)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
    at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.lang.reflect.Method.invoke(Method.java:498)
    at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection(AopUtils.java:333)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint(ReflectiveMethodInvocation
.java:190)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:15
7)
    at org.springframework.transaction.interceptor.TransactionInterceptor$1.proceedWithInvocation(TransactionI
nterceptor.java:99)
    at org.springframework.transaction.interceptor.TransactionAspectSupport.invokeWithinTransaction(Transaction
nAspectSupport.java:283)
    at org.springframework.transaction.interceptor.TransactionInterceptor.invoke(TransactionInterceptor.java:9
6)
    at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed(ReflectiveMethodInvocation.java:17
9)
    at org.springframework.aop.framework.JdkDynamicAopProxy.invoke(JdkDynamicAopProxy.java:213)
    at com.sun.proxy.$Proxy694.mergeDescriptions(Unknown Source)
    at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    ... 48 more
```

#30 - 09/23/2021 01:43 PM - Andreas Müller

- Tags set to additivity

#31 - 09/23/2021 01:49 PM - Andreas Müller

- Copied to bug #9785: Update script for missing measurment unit_ids (matrix) added

#32 - 09/23/2021 01:51 PM - Andreas Müller

Andreas Müller wrote:

We will need an update script to try to update existing data (in greece-bupleurum there are 787 quantitative data without unit_id)

I created a new ticket for this: [#9785](#)

#33 - 09/23/2021 01:51 PM - Andreas Müller

- Tags changed from additivity to additivity, performance

#34 - 09/23/2021 01:56 PM - Katja Luther

- Tags deleted (additivity, performance)

#35 - 09/23/2021 02:43 PM - Andreas Müller

- Tags set to additivity

Currently it looks like quantitative data characters which support >1 measurment units can not be opened in the popup dialogue from the matrix. I tested with "AM test dataset" first character.

#36 - 09/23/2021 02:43 PM - Andreas Müller

- Tags changed from additivity to additivity, performance

#37 - 09/24/2021 08:21 AM - Katja Luther

- Tags deleted (additivity, performance)

Andreas Müller wrote:

Currently it looks like quantitative data characters which support >1 measurment units can not be opened in the popup dialogue from the matrix. I tested with "AM test dataset" first character.

this is fixed.

#38 - 09/24/2021 11:47 AM - Andreas Müller

- Tags set to additivity, performance

- Status changed from Feedback to Resolved

- Assignee changed from Katja Luther to Andreas Müller

- % Done changed from 30 to 80

All open issues are fixed. Only new issue is the NPE when opening the aggregation. I will check this once the editor was build.

#39 - 09/30/2021 09:17 AM - Katja Luther

need to be tested:

- add new specimen, add character data -> save , add more character data -> save -> check for doubled entries -> **works**
- delete character data -> **works**
- add more than one statistical value -> **works**
- add literature description -> save -> add data to literature description -> **works** but sometimes the literature description is added in a new subtree, closing and reopening solves the problem and this problem does not appear if there exist a taxon description already
- add character data to specimen description with default description -> the color change still appears only when the matrix is reloaded. this needs some more work.
- add default description -> save -> add data to default description -> save -> **works**
- add literature description when editor is dirty -> save -> **works**

#40 - 09/30/2021 09:35 AM - Andreas Müller

Katja Luther wrote:

need to be tested:

what does this mean? Did you test it or is it still to be done?

#41 - 09/30/2021 09:56 AM - Katja Luther

Andreas Müller wrote:

Katja Luther wrote:

need to be tested:

what does this mean? Did you test it or is it still to be done?

I do it right now. If you have other issues, need to be tested, you can add it.

#42 - 09/30/2021 09:56 AM - Katja Luther

- Status changed from Resolved to In Progress

- Assignee changed from Andreas Müller to Katja Luther

#43 - 09/30/2021 12:44 PM - Katja Luther

- Status changed from In Progress to Resolved

- Assignee changed from Katja Luther to Andreas Müller

There are still two UI issues, the color of the field where a default description exists, changes (of the color) are only visible after restart the matrix and newly created literature descriptions sometimes show up in a separate subtree.

For the second I don't know if this is a regression, the color issue is, but maybe we can fix it for the next release? What do you think?

#44 - 10/04/2021 11:30 AM - Andreas Müller

- File picture910-1.png added

- Status changed from Resolved to Feedback

- Assignee changed from Andreas Müller to Katja Luther

Adding a new literature to a taxon does show the taxon row 2x if a specimen description for this taxon existed before already:

3	Structured DDS test: Factual dat...	
4	Structured DDS test: Factual dat...	
5	▲ Descripta prima Dall.	
6	Structured DDS test: Factual d...	
7	▲ Descripta prima Dall.	
8	#754	Italy, near tree, A...
9	▲ Descripta sedunda Gall.	
10	#755	Italy, near tree, A...

#45 - 10/04/2021 11:33 AM - Andreas Müller

Andreas Müller wrote:

Adding a new literature to a taxon does show the taxon row 2x if a specimen description for this taxon existed before already:

Upps I just see that this is mentioned in [#9772#note-43](#) already. Sorry.
Is this issue difficult to fix?

#46 - 10/04/2021 02:24 PM - Katja Luther

Some more tests (with Lactucinae):

found two issues, both are already fixed:

- avoid NPE for quantitative data without measurement unit (for example number of chromosomes)
- before starting aggregation check for changes in matrix.

#47 - 10/04/2021 03:50 PM - Andreas Müller

This generally seems to work now as expected.

I guess we need to create a couple of follow-up tickets. I could think about the following tickets:

- tests for all functionality related to this ticket and related to the correct handling RowWrapper related issues
- open issues (see comment 43)
- further DTOs to use (create a list of model instances that are still in use for the matrix)

#48 - 10/04/2021 03:52 PM - Andreas Müller

Can you please also leave a note which model objects have been replaced by this ticket?

And can you check the (new) code, if there is still commented code, unnecessary code and code with unnecessary warnings?

#49 - 10/04/2021 03:52 PM - Andreas Müller

- Tags changed from *additivity, performance* to *additivity, performance, matrix*

- % Done changed from 80 to 90

Generally we can close this ticket.

#50 - 10/04/2021 04:01 PM - Andreas Müller

Can you also check for other open matrix tickets and add the new tag "matrix" to them so we can check for all open matrix tickets.

Some open issues for the matrix might be that there is still the "open in ..." context menu missing which might be very helpful. Also it would be helpful if the taxon navigator reacts on a selected taxon if the "mit Taxon verknüpfen" button is checked in taxon navigator. Also it would be great (at least for reviewing) if the records could also show id/uuid of row objects (taxon, specimen). Either in the row at the end (like the bulkeditor) or in the supplemental data view.

Sooner or later we should also start to implement the details view again to be able to edit some more advanced data like the modifiers. This worked in earlier versions but was removed by PP when implementing a faster version. As we already handle some DTOs in details view I don't think it should be too difficult to reenable it. But definitely not a no brainer.

Can you check for existing tickets for all the above issues and create them if not existing?

#51 - 10/04/2021 04:23 PM - Andreas Müller

Please check also if code is clean. E.g. I found `DescriptiveDatasetService.getDescriptiveDataSetDtoByUuid()` which includes DAO code like HQL where clauses. This should definitely move to persistence or is there a reason for having it in service layer?

#52 - 10/04/2021 04:34 PM - Andreas Müller

Same in `TaxonNodeServiceImpl.getTaxonNodeDtos()`.

By the way I wonder if all these HQL statements are necessary. Have you checked if you could use the methods in `TaxonNodeFilterDaoHibernateImpl`? These methods are well tested and will be maintained in case the `TaxonNodeFilter` is extended in future. As the `TaxonNodeFilter` was originally implemented for DDS I guess it could be used at some places instead of using own HQL code. Otherwise we get redundant code for this very complex type of filter which will be difficult to maintain.

But I haven't checked carefully so maybe I am wrong and in the given context the `TNfilter` can't be used.

#53 - 10/05/2021 08:45 AM - Katja Luther

Andreas Müller wrote:

Same in `TaxonNodeServiceImpl.getTaxonNodeDtos()`.

By the way I wonder if all these HQL statements are necessary. Have you checked if you could use the methods in `TaxonNodeFilterDaoHibernateImpl`? These methods are well tested and will be maintained in case the `TaxonNodeFilter` is extended in future. As the `TaxonNodeFilter` was originally implemented for DDS I guess it could be used at some places instead of using own HQL code. Otherwise we get redundant code for this very complex type of filter which will be difficult to maintain.

But I haven't checked carefully so maybe I am wrong and in the given context the `TNfilter` can't be used.

The `taxonNodeFilter` is used to get the uuids of the filtered taxonnodes, these queries are used to get the dtos for the uuids.

#54 - 10/05/2021 10:54 AM - Katja Luther

Andreas Müller wrote:

Please check also if code is clean. E.g. I found DescriptiveDatasetService.getDescriptiveDataSetDtoByUuid() which includes DAO code like HQL where clauses. This should definitely move to persistence or is there a reason for having in in service layer?

done

#55 - 10/05/2021 01:21 PM - Katja Luther

- Status changed from Feedback to Resolved

Code cleaning done for TaxonNodeService/Dao and DescriptiveDatasetService.

#56 - 10/05/2021 01:35 PM - Katja Luther

Andreas Müller wrote:

Can you please also leave a note which model objects have been replaced by this ticket?

And can you check the (new) code, if there is still commented code, unnecessary code and code with unnecessary warnings?

In the former implementation the DDS was used as cdm object (containing taxonnodes and descriptions) and the descriptions included in rowWrappers where replaced by DTOs

#57 - 10/07/2021 10:33 AM - Katja Luther

- Related to bug #9800: Open issues for character matrix added

#58 - 11/02/2021 11:39 AM - Andreas Müller

- Related to task #9842: Improve performance for loading DDS (RowWrapperDTO) added

#59 - 11/03/2021 04:56 PM - Andreas Müller

- Status changed from Resolved to Closed

There are a couple of open issues (most important probably the loading which uses still model objects and therefore is not performant - [#9842](#) or the creation of new records when records could be updated only).

There are tickets for these open issues so I think we can close this one.

#60 - 11/03/2021 04:57 PM - Andreas Müller

- % Done changed from 90 to 100

#61 - 11/25/2021 02:15 PM - Katja Luther

- Related to bug #9885: Write tests for all rowWrapper issues added

Files

picture910-1.png	6.4 KB	10/04/2021	Andreas Müller
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