

EDIT - bug #5211

Error when creating new taxon /problem with sortindex in taxon tree

09/08/2015 12:20 PM - Cherian Mathew

Status:	In Progress	Start date:	
Priority:	Highest	Due date:	
Assignee:	Andreas Müller	% Done:	0%
Category:	cdmlib	Estimated time:	0:00 hour
Target version:	Release 5.46	Found in Version:	
Severity:	normal		
Description			
Following error occurs sometimes when creating a taxon.			
<pre>java.lang.Exception: login : admin editor version : 3.8.0.qualifier server : test.e-taxonomy.eu / edit-test schema version : 3.6.0.0.201527040000 os : Linux 3.13.0-62-generic amd64 java : 1.7.0_60 eu.etaxonomy.taxeditor.remoting.CdmEagerLoadingException: java.lang.ArrayIndexOutOfBoundsException : -1 at org.hibernate.collection.internal.AbstractPersistentCollection.remoteInitialize (AbstractPer sistentCollection.java:1334) at org.hibernate.collection.internal.AbstractPersistentCollection.initialize (AbstractPersisten tCollection.java:603) at org.hibernate.collection.internal.AbstractPersistentCollection.read (AbstractPersistentColle ction.java:143) at org.hibernate.collection.internal.AbstractPersistentCollection.readSize (AbstractPersistentC ollection.java:160) at org.hibernate.collection.internal.PersistentList.size (PersistentList.java:114) at eu.etaxonomy.taxeditor.navigation.navigator.TaxonNodePropertyTester.test (TaxonNodePropertyT ester.java:32) at org.eclipse.core.internal.expressions.Property.test (Property.java:58) at org.eclipse.core.internal.expressions.TestExpression.evaluate (TestExpression.java:99) at org.eclipse.core.internal.expressions.CompositeExpression.evaluateAnd (CompositeExpression.j ava:53) at org.eclipse.core.internal.expressions.AndExpression.evaluate (AndExpression.java:29) at org.eclipse.core.internal.expressions.CompositeExpression.evaluateOr (CompositeExpression.ja va:68) at org.eclipse.core.internal.expressions.OrExpression.evaluate (OrExpression.java:21) at org.eclipse.ui.internal.navigator.NavigatorPlugin\$Evaluator.run (NavigatorPlugin.java:245) at org.eclipse.core.runtime.SafeRunner.run (SafeRunner.java:42) at org.eclipse.ui.internal.navigator.CustomAndExpression.evaluate (CustomAndExpression.java:71) at org.eclipse.ui.internal.navigator.NavigatorPlugin\$Evaluator.run (NavigatorPlugin.java:245) at org.eclipse.core.runtime.SafeRunner.run (SafeRunner.java:42) at org.eclipse.ui.internal.navigator.NavigatorPlugin.safeEvaluate (NavigatorPlugin.java:260) at org.eclipse.ui.internal.navigator.extensions.NavigatorContentDescriptor.isTriggerPoint (Navi gatorContentDescriptor.java:426) at Caused by: java.lang.ArrayIndexOutOfBoundsException: -1 at java.util.ArrayList.elementData (ArrayList.java:400) at java.util.ArrayList.set (ArrayList.java:428) at org.hibernate.collection.internal.PersistentList.readFrom (PersistentList.java:409) at org.hibernate.loader.Loader.readCollectionElement (Loader.java:1312) at org.hibernate.loader.Loader.readCollectionElements (Loader.java:872) at org.hibernate.loader.Loader.getRowFromResultSet (Loader.java:723) at org.hibernate.loader.Loader.processResultSet (Loader.java:940) at org.hibernate.loader.Loader.doQuery (Loader.java:910) at org.hibernate.loader.Loader.doQueryAndInitializeNonLazyCollections (Loader.java:341) at org.hibernate.loader.Loader.doList (Loader.java:2516) at org.hibernate.loader.Loader.doList (Loader.java:2502) at org.hibernate.loader.Loader.listIgnoreQueryCache (Loader.java:2332)</pre>			

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at org.hibernate.loader.Loader.list (Loader.java:2327)
at org.hibernate.loader.hql.QueryLoader.list (QueryLoader.java:490)
at org.hibernate.hql.internal.ast.QueryTranslatorImpl.list (QueryTranslatorImpl.java:355)
at org.hibernate.engine.query.spi.HQLQueryPlan.performList (HQLQueryPlan.java:195)
at org.hibernate.internal.SessionImpl.list (SessionImpl.java:1247)
at org.hibernate.internal.QueryImpl.list (QueryImpl.java:101)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.bulkLoadLazies (AdvancedBeanInitializer.java:436)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initializeNodeNoWildcard (AdvancedBeanInitializer.java:246)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initializeNode (AdvancedBeanInitializer.java:120)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initializeNodeRecursive (AdvancedBeanInitializer.java:100)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initializeNodeRecursive (AdvancedBeanInitializer.java:102)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initializeAll (AdvancedBeanInitializer.java:80)
at eu.etaxonomy.cdm.persistence.dao.initializer.AdvancedBeanInitializer.initialize (AdvancedBeanInitializer.java:52)
at eu.etaxonomy.cdm.persistence.dao.hibernate.common.CdmEntityDaoBase.load (CdmEntityDaoBase.java:519)
at eu.etaxonomy.cdm.persistence.dao.hibernate.common.CdmGenericDaoImpl.initializeCollection (CdmGenericDaoImpl.java:744)
at eu.etaxonomy.cdm.api.service.CommonServiceImpl.initializeCollection (CommonServiceImpl.java:322)
at sun.reflect.GeneratedMethodAccessor1840.invoke (Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.java:43)
at java.lang.reflect.Method.invoke (Method.java:606)
at org.springframework.aop.support.AopUtils.invokeJoinpointUsingReflection (AopUtils.java:317)
at org.springframework.aop.framework.ReflectiveMethodInvocation.invokeJoinpoint (ReflectiveMethodInvocation.java:183)
at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (ReflectiveMethodInvocation.java:150)
at org.springframework.transaction.interceptor.TransactionInterceptor.invoke (TransactionInterceptor.java:110)
at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (ReflectiveMethodInvocation.java:172)
at org.springframework.aop.framework.JdkDynamicAopProxy.invoke (JdkDynamicAopProxy.java:204)
at com.sun.proxy.$Proxy5599.initializeCollection (Unknown Source)
at sun.reflect.GeneratedMethodAccessor1840.invoke (Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.java:43) ...

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Related issues:

- Related to EDIT - bug #6546: Adding identifier does not always work **In Progress**
- Related to EDIT - bug #10101: Correct mapping and handling of sorted tree str... **In Progress**

History

#1 - 09/08/2015 12:34 PM - Cherian Mathew

The actual reason for this error is that one of the taxon nodes to be loaded in the navigator has sortIndex -1.

Not really sure why this happens but correcting the sortIndex in the db fixes the problem.

#2 - 09/09/2015 01:22 PM - Cherian Mathew

- Status changed from New to Resolved
- Assignee changed from c.mathew - to Andreas Müller

#3 - 09/10/2015 04:15 PM - Andreas Müller

- Assignee changed from Andreas Müller to c.mathew -

Should we just close this ticket and wait if the sortindex issue comes up again. I currently can't reproduce.

Or should we try to create a handler for this exception to give better feedback to the user such as "Please ask your database administrator to fix this"?

#4 - 11/20/2015 11:49 AM - Cherian Mathew

- Assignee changed from c.mathew - to Andreas Müller

#5 - 11/26/2015 03:03 PM - Andreas Müller

- Status changed from Resolved to In Progress

- Target version changed from Remoting 5.0 to Unassigned CDM tickets

#6 - 11/26/2015 03:04 PM - Andreas Müller

- Status changed from In Progress to New

#7 - 10/05/2016 12:40 PM - Andreas Müller

- Description updated

- Status changed from New to Worksforme

Probably fixed with better handling for null values in merge.

#8 - 10/05/2016 12:40 PM - Andreas Müller

- Target version deleted (Unassigned CDM tickets)

#9 - 03/29/2017 03:22 PM - Katja Luther

- Status changed from Worksforme to New

- Assignee changed from Andreas Müller to Katja Luther

we have to reopen this ticket.

Henning created a new taxon, which had the sortindex -1.

Hallo, beim Überarbeiten des ungespreicherten Taxoneintrags: „Surirella chasel“ passiert,

VG

Henning

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login : henning
editor version : 4.6.0
server : 160.45.63.173 (edit-prod) / phycobank
schema version : 4.1.0.0.201607300000
os : Windows 7 6.1 x86
java : 1.8.0_121
java.lang.ArrayIndexOutOfBoundsException: -1
    at java.util.ArrayList.elementData(ArrayList.java:418)
    at java.util.ArrayList.set(ArrayList.java:446)
    at org.hibernate.collection.internal.PersistentList.readFrom(PersistentList.java:390)
    at org.hibernate.loader.plan.exec.process.internal.CollectionReferenceInitializerImpl.finishUp
Row(CollectionReferenceInitializerImpl.java:77)
    at org.hibernate.loader.plan.exec.process.internal.AbstractRowReader.readRow(AbstractRowReader
.java:121)
    at org.hibernate.loader.plan.exec.process.internal.ResultSetProcessorImpl.extractResults(Resul
tSetProcessorImpl.java:112)
    at org.hibernate.loader.plan.exec.internal.AbstractLoadPlanBasedLoader.executeLoad(AbstractLoa
dPlanBasedLoader.java:122)
    at org.hibernate.loader.plan.exec.internal.AbstractLoadPlanBasedLoader.executeLoad(AbstractLoa
dPlanBasedLoader.java:86)
    at org.hibernate.loader.collection.plan.AbstractLoadPlanBasedCollectionInitializer.initialize(
AbstractLoadPlanBasedCollectionInitializer.java:88)
    at org.hibernate.persister.collection.AbstractCollectionPersister.initialize(AbstractCollectio
nPersister.java:682)
    at org.hibernate.event.internal.DefaultInitializeCollectionEventListener.onInitializeCollectio
n(DefaultInitializeCollectionEventListener.java:75)
    at org.hibernate.internal.SessionImpl.initializeCollection(SessionImpl.java:1991)
    at org.hibernate.collection.internal.AbstractPersistentCollection$4.doWork(AbstractPersistentC
ollection.java:550)
    at org.hibernate.collection.internal.AbstractPersistentCollection.withTemporarySessionIfNeeded
(AbstractPersistentCollection
    at org.hibernate.collection.internal.AbstractPersistentCollection.initialize(AbstractPersisten
tCollection.java:546)
    at org.hibernate.collection.internal.AbstractPersistentCollection.read(AbstractPersistentColle
ction.java:133)
    at org.hibernate.collection.internal.AbstractPersistentCollection$1.doWork(AbstractPersistentC
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ollection.java:162)
    at org.hibernate.collection.internal.AbstractPersistentCollection$.doWork(AbstractPersistentC
ollection.java:147)
    at org.hibernate.collection.internal.AbstractPersistentCollection.withTemporarySessionIfNeeded
(AbstractPersistentCollection.java:248)
    at org.hibernate.collection.internal.AbstractPersistentCollection.readSize(AbstractPersistentC
ollection.java:146)
    at org.hibernate.collection.internal.PersistenList.size(PersistenList.java:114)
    at eu.etaxonomy.cdm.model.taxon.TaxonNode.hasChildNodes(TaxonNode.java:950)
    at eu.etaxonomy.cdm.model.taxon.TaxonNode.updateSortIndex(TaxonNode.java:762)
    at eu.etaxonomy.cdm.model.taxon.TaxonNode.removeNullValueFromChildren(TaxonNode.java:969)
    at eu.etaxonomy.cdm.persistence.hibernate.PostMergeEntityListener.removeNullFromCollections(Po
stMergeEntityListener.java:87)
    at eu.etaxonomy.cdm.persistence.hibernate.PostMergeEntityListener.onMerge(PostMergeEntityListe
ner.java:64)
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#10 - 03/29/2017 04:06 PM - Andreas Müller

- Target version set to Release 4.7

#11 - 03/29/2017 04:10 PM - Andreas Müller

- Subject changed from Error when creating new taxon to Error when creating new taxon /problem with sortindex in taxon tree

- Private changed from Yes to No

The main problem here is that the hibernate implementation of List (PersistenList) has a strange behavior in the size() method when an object is added. Size() does not change its value though a new object is added. Instead only an ADD object is remembered in the list. As we use size for computing the sortindex this leads to problems and incorrect sortindexes.

#12 - 03/29/2017 04:13 PM - Andreas Müller

- Description updated

#13 - 03/29/2017 04:15 PM - Andreas Müller

- Description updated

#14 - 03/29/2017 04:19 PM - Andreas Müller

- Category changed from taxeditor to cdmlib

- Status changed from New to In Progress

- Assignee changed from Katja Luther to Andreas Müller

#15 - 03/30/2017 11:48 AM - Andreas Müller

- Related to bug #6546: Adding identifier does not always work added

#16 - 03/31/2017 10:11 AM - Andreas Müller

I tried to move the sortIndex updater to hibernate saveOrUpdate listener in hope that the list is update at that point but it isn't.

#17 - 05/17/2017 01:49 PM - Andreas Müller

- Target version changed from Release 4.7 to Release 4.8

#18 - 07/06/2017 10:51 PM - Andreas Müller

- Target version changed from Release 4.8 to Release 4.9

#19 - 07/21/2017 10:13 AM - Andreas Müller

- Target version changed from Release 4.9 to Release 4.10

#20 - 09/25/2017 03:23 PM - Andreas Müller

- Target version changed from Release 4.10 to Release 4.11

#21 - 11/08/2017 11:27 AM - Andreas Müller

- Target version changed from Release 4.11 to Release 4.12

#22 - 12/05/2017 02:05 PM - Andreas Müller

- Target version changed from Release 4.12 to Release 4.13

#23 - 01/31/2018 12:50 PM - Andreas Müller

- Target version changed from Release 4.13 to Release 4.14

#24 - 02/15/2018 03:39 PM - Andreas Müller

- Target version changed from Release 4.14 to Release 5.0

#25 - 05/14/2018 11:36 PM - Andreas Müller

- Target version changed from Release 5.0 to Release 5.1

#26 - 06/27/2018 02:30 PM - Andreas Müller

- Target version changed from Release 5.1 to Release 5.2

#27 - 08/17/2018 04:05 PM - Andreas Müller

- Target version changed from Release 5.2 to Release 5.3

#28 - 09/06/2018 10:05 AM - Andreas Müller

- Target version changed from Release 5.3 to Release 5.4

#29 - 10/23/2018 11:31 AM - Andreas Müller

- Target version changed from Release 5.4 to Release 5.5

#30 - 02/14/2019 10:33 PM - Andreas Müller

- Target version changed from Release 5.5 to Release 5.6

#31 - 02/19/2019 06:43 PM - Andreas Müller

- Target version changed from Release 5.6 to Release 5.7

#32 - 05/03/2019 02:57 PM - Andreas Müller

- Target version changed from Release 5.7 to Release 5.8

#33 - 07/19/2019 03:34 PM - Andreas Müller

- Target version changed from Release 5.8 to Release 5.10

#34 - 09/18/2019 01:36 PM - Andreas Müller

- Target version changed from Release 5.10 to Release 5.11

#35 - 11/04/2019 12:38 PM - Andreas Müller

- Target version changed from Release 5.11 to Release 5.12

#36 - 01/16/2020 12:57 PM - Andreas Müller

- Target version changed from Release 5.12 to Release 5.13

#37 - 02/26/2020 11:47 AM - Andreas Müller

- Target version changed from Release 5.13 to Release 5.14

#38 - 04/08/2020 03:42 PM - Andreas Müller

- Target version changed from Release 5.14 to Release 5.15

#39 - 06/23/2020 01:47 PM - Andreas Müller

- Target version changed from Release 5.15 to Release 5.18

#40 - 12/03/2020 05:59 PM - Andreas Müller

- Target version changed from Release 5.18 to Release 5.19

#41 - 01/27/2021 04:01 PM - Andreas Müller

- Target version changed from Release 5.19 to Release 5.21

#42 - 03/10/2021 02:35 PM - Andreas Müller

- Target version changed from Release 5.21 to Release 5.22

#43 - 04/16/2021 10:21 PM - Andreas Müller

- Target version changed from Release 5.22 to Release 5.46

#45 - 07/28/2022 09:31 AM - Andreas Müller

- Related to bug #10101: Correct mapping and handling of sorted tree structures added