

EDIT - feature request #7600

public setters for entity collections

07/30/2018 01:05 PM - Andreas Kohlbecker

Status:	Closed	Start date:	
Priority:	New	Due date:	
Assignee:	Andreas Kohlbecker	% Done:	100%
Category:	cdmlib	Estimated time:	0:00 hour
Target version:	Release 5.5		
Severity:	normal		

Description

In model classes the setters for entity collections are protected or do not exist at all.
Only add*() and remove*() methods exists.

This turned out to be inconvinient when using the entity classes in ui frameworks like vaadin:

Der Grund weshalb ich die Adapter/DTOs benötige ist oft nur die Tatsache, dass man keinen Zugriff auf Collections in den CdmEntities hat, sondern immer die entsprechenden add*() und remove*() Methoden verwenden muss. Dies verträgt sich mit UI-Frameworks wie Vaadin ganz und gar nicht und ich muss für alle CdmKlassen immer setFoo(Collection foos) in addFoo(Foo foo) und removeFoo(Foo foo) übersetzen. Das machen diese AdapterDTOs.

Was spricht denn überhaupt dagegen die set*(Collection<? extends CdmBase> entities) Methoden im Model publik zu machen?
Für Hibernate sollte das keine Probleme bereiten, in den Codebeispielen dort ist dies Standard.

In many cases the add*() and remove*() methods contain important business logic which would be short-circuited if the set*() method would be public.

Suggestion:

1. rename all existing protected set*(Collection<> c) methods to _set*
2. create a public set*(Collection<> c) method which internally uses the add*() and remove*() methods like:

```
public void setAnnotations(Set<Annotation> annotations) {  
    List<Annotation> currentAnnotations = new ArrayList<>(name.getAnnotations());  
    List<Annotation> annotationsSeen = new ArrayList<>();  
    for(Annotation a : annotations){  
        if(a == null){  
            continue;  
        }  
        if(!currentAnnotations.contains(a)){  
            name.addAnnotation(a);  
        }  
        annotationsSeen.add(a);  
    }  
    for(Annotation a : currentAnnotations){  
        if(!annotationsSeen.contains(a)){  
            name.removeAnnotation(a);  
        }  
    }  
}
```

The above code could be generalized by implementing an EntityCollectionSetterAdapter.class which internally operates with java.lang.reflect.Method which are passes to the adapter in the constructor.

Related issues:

Related to EDIT - bug #7910: TeamOrPersonField: readonly exception on bindig ...

Closed

Copied to EDIT - bug #8496: Improve public setters for entity collections

New

Associated revisions

Revision a55fe58a - 09/04/2018 03:14 PM - Andreas Kohlbecker

ref #7600 implementing setAnnotations()

Revision eb6691aa - 11/15/2018 01:18 PM - Andreas Kohlbecker

ref #7600 EntityCollectionAdapter implemented

Revision ffc36c9b - 11/15/2018 01:19 PM - Andreas Kohlbecker

ref #7600 using EntityCollectionAdapter for Team.teamMembers

Revision f1ea206f - 11/15/2018 02:23 PM - Andreas Kohlbecker

ref #7600 using EntityCollectionAdapter for Team.teamMembers - adding @XmlTransient to member field teamMembersSetterAdapter

Revision 0ba3b57d - 11/15/2018 02:23 PM - Andreas Kohlbecker

ref #7600 using EntityCollectionAdapter for AnnotatableEntity.annotations

Revision ba1a500d - 11/15/2018 02:24 PM - Andreas Kohlbecker

ref #7600 renaming arument in EntityCollectionAdapter

Revision 9fa62583 - 11/15/2018 02:50 PM - Andreas Kohlbecker

ref #7600 adding usage example to EntityCollectionAdapter doc

Revision 43fd7d93 - 11/15/2018 04:14 PM - Andreas Kohlbecker

ref #7600 EntityCollectionAdapter serializable

Revision ea42fa08 - 11/15/2018 04:46 PM - Andreas Kohlbecker

ref #7600 EntityCollectionAdapter no longer caching Methods to be serializable

Revision c37df82d - 11/16/2018 01:26 PM - Andreas Kohlbecker

ref #7600 removing EntityCollectionAdapter fields from Team and AnnotatableEntity since it no longer caches Methods

Revision 2114bbc7 - 01/28/2019 02:29 PM - Andreas Kohlbecker

ref #7600 removing obsolete method _setTeamMembers(...)

Revision 57ab1b79 - 08/23/2019 02:08 PM - Andreas Müller

ref #7600 add explicit adders for adder and remover methods to EntityCollectionAdapter

History

#1 - 09/04/2018 03:16 PM - Andreas Kohlbecker

with commmit:a55fe58a I implemented the suggested setter for annotations. This implementation is not generic and should be replaced by a generic implementation though.

#2 - 10/23/2018 02:56 PM - Andreas Müller

- Copied to feature request #7847: Use separate column for row state instead of symbol in titleCache column added

#3 - 10/24/2018 09:21 AM - Andreas Müller

- Copied to deleted (feature request #7847: Use separate column for row state instead of symbol in titleCache column)

#4 - 11/15/2018 01:56 PM - Andreas Kohlbecker

- Status changed from New to In Progress

- % Done changed from 0 to 30

#5 - 11/15/2018 02:44 PM - Andreas Kohlbecker

- Description updated

- Status changed from In Progress to Feedback

- Target version changed from Unassigned CDM tickets to Release 5.5

- % Done changed from 30 to 50

The EntityCollectionSetterAdapter is implemented and being used for Team.teamMembers and AnnotatableEntity.annotations

I think we can close this issue now since we now have an easy to use means to allow model beans having writable bean properties.

Please review.

#6 - 11/15/2018 04:10 PM - Andreas Kohlbecker

- Status changed from Feedback to In Progress

- Assignee changed from Andreas Müller to Andreas Kohlbecker

- % Done changed from 50 to 40

EntityCollectionSetterAdapter is causing problems in the http-invoker during serialization:

```
login : admin
editor version : 5.5.0.qualifier
server : localhost (localhost-dev)
schema version : 5.0.0.0.20180514
os : Linux 4.4.0-130-generic amd64
java : 1.8.0_25
org.eclipse.swt.SWTException: Failed to execute runnable (org.springframework.remoting.RemoteAccessException:
Could not access HTTP invoker remote service at [http://localhost:8080/remoting/term.service]; nested exception
is java.io.WriteAbortedException: writing aborted; java.io.NotSerializableException: eu.etaxonomy.cdm.model.
EntityCollectionSetterAdapter)
    at org.eclipse.swt.SWT.error(SWT.java:4533)
    at org.eclipse.swt.SWT.error(SWT.java:4448)
    at org.eclipse.swt.widgets.Synchronizer.runAsyncMessages(Synchronizer.java:185)
    at org.eclipse.swt.widgets.Display.runAsyncMessages(Display.java:4536)
    at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:4154)
    at org.eclipse.jface.operation.ModalContext$ModalContextThread.block(ModalContext.java:165)
    at org.eclipse.jface.operation.ModalContext.run(ModalContext.java:369)
    at org.eclipse.jface.dialogs.ProgressMonitorDialog.run(ProgressMonitorDialog.java:481)
    at eu.etaxonomy.taxeditor.store.CdmStoreConnector.start(CdmStoreConnector.java:147)
    at eu.etaxonomy.taxeditor.store.CdmStore.connect(CdmStore.java:261)
    at eu.etaxonomy.taxeditor.store.CdmStore.connect(CdmStore.java:216)
    at eu.etaxonomy.taxeditor.ui.dialog.RemotingLoginDialog$9$1.run(RemotingLoginDialog.java:520)
    at org.eclipse.ui.internal.UILockListener.doPendingWork(UILockListener.java:162)
    at org.eclipse.ui.internal.UISynchronizer$3.run(UISynchronizer.java:154)
    at org.eclipse.swt.widgets.RunnableLock.run(RunnableLock.java:35)
    at org.eclipse.swt.widgets.Synchronizer.runAsyncMessages(Synchronizer.java:182)
    at org.eclipse.swt.widgets.Display.runAsyncMessages(Display.java:4536)
    at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:4154)
    at eu.etaxonomy.taxeditor.ui.dialog.RemotingLoginDialog.open(RemotingLoginDialog.java:212)
    at eu.etaxonomy.taxeditor.handler.e4.ShowRemotingLoginWindowHandlerE4.execute(ShowRemotingLoginWindowHandlerE4.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:483)
    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:5227)
    at org.eclipse.swt.widgets.Widget.sendEvent(Widget.java:1340)
    at org.eclipse.swt.widgets.Display.runDeferredEvents(Display.java:4561)
    at org.eclipse.swt.widgets.Display.readAndDispatch(Display.java:4151)
    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.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:24)
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:483)
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)
at org.eclipse.equinox.launcher.Main.main (Main.java:1492)
Caused by: org.springframework.remoting.RemoteAccessException: Could not access HTTP invoker remote service at
[http://localhost:8080/remoting/term.service]; nested exception is java.io.WriteAbortedException: writing abo
rted; java.io.NotSerializableException: eu.etaxonomy.cdm.model.EntityCollectionSetterAdapter
at org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor.convertHttpInvokerAccessException
(HttpInvokerClientInterceptor.java:216)
at org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor.invoke (HttpInvokerClientIntercept
or.java:147)
at org.springframework.aop.framework.ReflectiveMethodInvocation.proceed (ReflectiveMethodInvocation.java:17
9)
at org.springframework.aop.framework.JdkDynamicAopProxy.invoke (JdkDynamicAopProxy.java:208)
at com.sun.proxy.$Proxy39.findWithoutFlush (Unknown Source)
at eu.etaxonomy.cdm.api.cache.CdmServiceCacher.findByUuid (CdmServiceCacher.java:93)
at eu.etaxonomy.cdm.api.cache.CdmCacher.load (CdmCacher.java:134)
at eu.etaxonomy.cdm.model.common DefinedTermBase.getTermByClassAndUUID_aroundBody20 (DefinedTermBase.java:5
40)
at eu.etaxonomy.cdm.model.common DefinedTermBase.getTermByClassAndUUID (DefinedTermBase.java:1)
at eu.etaxonomy.cdm.model.name.Rank.getTermByUuid (Rank.java:230)
at eu.etaxonomy.cdm.model.name.Rank.initDefaultTerms_aroundBody174 (Rank.java:1016)
at eu.etaxonomy.cdm.model.name.Rank.initDefaultTerms (Rank.java:1)
at eu.etaxonomy.taxeditor.store.CdmStoreConnector$1$2.run (CdmStoreConnector.java:210)
at org.eclipse.swt.widgets.RunnableLock.run (RunnableLock.java:35)
at org.eclipse.swt.widgets.Synchronizer.runAsyncMessages (Synchronizer.java:182)
... 59 more
Caused by: java.io.WriteAbortedException: writing aborted; java.io.NotSerializableException: eu.etaxonomy.cdm.
model.EntityCollectionSetterAdapter
at java.io.ObjectInputStream.readObject0 (ObjectInputStream.java:1355)
at java.io.ObjectInputStream.defaultReadFields (ObjectInputStream.java:1993)
at java.io.ObjectInputStream.readSerialData (ObjectInputStream.java:1918)
at java.io.ObjectInputStream.readOrdinaryObject (ObjectInputStream.java:1801)
at java.io.ObjectInputStream.readObject0 (ObjectInputStream.java:1351)
at java.io.ObjectInputStream.defaultReadFields (ObjectInputStream.java:1993)
at java.io.ObjectInputStream.readSerialData (ObjectInputStream.java:1918)
at java.io.ObjectInputStream.readOrdinaryObject (ObjectInputStream.java:1801)
at java.io.ObjectInputStream.readObject0 (ObjectInputStream.java:1351)
at java.io.ObjectInputStream.readObject (ObjectInputStream.java:371)
at org.springframework.remoting.httpinvoker.AbstractHttpInvokerRequestExecutor.doReadRemoteInvocationResul
t (AbstractHttpInvokerRequestExecutor.java:292)
at org.springframework.remoting.httpinvoker.AbstractHttpInvokerRequestExecutor.readRemoteInvocationResult (
AbstractHttpInvokerRequestExecutor.java:243)
at org.springframework.remoting.httpinvoker.HttpComponentsHttpInvokerRequestExecutor.doExecuteRequest (Http
ComponentsHttpInvokerRequestExecutor.java:232)
at eu.etaxonomy.taxeditor.service.CdmServiceRequestExecutor.doExecuteRequest (CdmServiceRequestExecutor.ja
va:61)
at org.springframework.remoting.httpinvoker.AbstractHttpInvokerRequestExecutor.executeRequest (AbstractHttp
InvokerRequestExecutor.java:138)
at org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor.executeRequest (HttpInvokerClientI
nterceptor.java:194)
at org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor.executeRequest (HttpInvokerClientI
nterceptor.java:176)
at org.springframework.remoting.httpinvoker.HttpInvokerClientInterceptor.invoke (HttpInvokerClientIntercept
or.java:144)
... 72 more
Caused by: java.io.NotSerializableException: eu.etaxonomy.cdm.model.EntityCollectionSetterAdapter
at java.io.ObjectOutputStream.writeObject0 ( ObjectOutputStream.java:1184)
at java.io.ObjectOutputStream.defaultWriteFields ( ObjectOutputStream.java:1548)

```

```
at java.io.ObjectOutputStream.writeSerialData(ObjectOutputStream.java:1509)
at java.io.ObjectOutputStream.writeObject0(ObjectOutputStream.java:1432)
at java.io.ObjectOutputStream.writeObject0(ObjectOutputStream.java:1178)
at java.io.ObjectOutputStream.defaultWriteFields(ObjectOutputStream.java:1548)
at java.io.ObjectOutputStream.writeSerialData(ObjectOutputStream.java:1509)
at java.io.ObjectOutputStream.writeObject0(ObjectOutputStream.java:1432)
at java.io.ObjectOutputStream.writeObject0(ObjectOutputStream.java:1178)
at java.io.ObjectOutputStream.writeObject(ObjectOutputStream.java:348)
at org.springframework.remoting.rmi.RemoteInvocationSerializingExporter.doWriteRemoteInvocationResult(RemoteInvocationSerializingExporter.java:176)
at org.springframework.remoting.httpinvoker.HttpInvokerServiceExporter.writeRemoteInvocationResult(HttpInvokerServiceExporter.java:174)
at org.springframework.remoting.httpinvoker.HttpInvokerServiceExporter.writeRemoteInvocationResult(HttpInvokerServiceExporter.java:150)
at org.springframework.remoting.httpinvoker.HttpInvokerServiceExporter.handleRequest(HttpInvokerServiceExporter.java:75)
at org.springframework.web.servlet.mvc.HttpRequestHandlerAdapter.handle(HttpRequestHandlerAdapter.java:51)
at org.springframework.web.servlet.DispatcherServlet.doDispatch(DispatcherServlet.java:959)
at org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:893)
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:969)
at org.springframework.web.servlet.FrameworkServlet.doPost(FrameworkServlet.java:871)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:707)
at org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:845)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:790)
at org.eclipse.jetty.servlet.ServletHolder.handle(ServletHolder.java:841)
at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1634)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:316)
)
at org.springframework.security.web.access.intercept.FilterSecurityInterceptor.invoke(FilterSecurityInterceptor.java:126)
at org.springframework.security.web.access.intercept.FilterSecurityInterceptor.doFilter(FilterSecurityInterceptor.java:90)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.access.ExceptionTranslationFilter.doFilter(ExceptionTranslationFilter.java:114)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.session.SessionManagementFilter.doFilter(SessionManagementFilter.java:122)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.servletapi.SecurityContextHolderAwareRequestFilter.doFilter(SecurityContextHolderAwareRequestFilter.java:169)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.savedrequest.RequestCacheAwareFilter.doFilter(RequestCacheAwareFilter.java:48)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.authentication.www.BasicAuthenticationFilter.doFilterInternal(BasicAuthenticationFilter.java:213)
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.authentication.logout.LogoutFilter.doFilter(LogoutFilter.java:120)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.header.HeaderWriterFilter.doFilterInternal(HeaderWriterFilter.java:64)
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.context.SecurityContextPersistenceFilter.doFilter(SecurityContextPersistenceFilter.java:91)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter.doFilterInternal(WebAsyncManagerIntegrationFilter.java:53)
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
at org.springframework.security.web.FilterChainProxy$VirtualFilterChain.doFilter(FilterChainProxy.java:330)
)
at org.springframework.security.web.FilterChainProxy.doFilterInternal(FilterChainProxy.java:213)
at org.springframework.security.web.FilterChainProxy.doFilter(FilterChainProxy.java:176)
at org.springframework.web.filter.DelegatingFilterProxy.invokeDelegate(DelegatingFilterProxy.java:346)
at org.springframework.web.filter.DelegatingFilterProxy.doFilter(DelegatingFilterProxy.java:262)
```

```

at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1621)
at org.springframework.web.filter.CharacterEncodingFilter.doFilterInternal(CharacterEncodingFilter.java:12
1)
at org.springframework.web.filter.OncePerRequestFilter.doFilter(OncePerRequestFilter.java:107)
at org.eclipse.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1613)
at org.eclipse.jetty.servlet.ServletHandler.doHandle(ServletHandler.java:541)
at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:143)
at org.eclipse.jetty.security.SecurityHandler.handle(SecurityHandler.java:548)
at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.java:132)
at org.eclipse.jetty.server.handler.ScopedHandler.nextHandle(ScopedHandler.java:190)
at org.eclipse.jetty.server.session.SessionHandler.doHandle(SessionHandler.java:1592)
at org.eclipse.jetty.server.handler.ScopedHandler.nextHandle(ScopedHandler.java:188)
at org.eclipse.jetty.server.handler.ContextHandler.doHandle(ContextHandler.java:1239)
at org.eclipse.jetty.server.handler.ScopedHandler.nextScope(ScopedHandler.java:168)
at org.eclipse.jetty.servlet.ServletHandler.doScope(ServletHandler.java:481)
at org.eclipse.jetty.server.session.SessionHandler.doScope(SessionHandler.java:1561)
at org.eclipse.jetty.server.handler.ScopedHandler.nextScope(ScopedHandler.java:166)
at org.eclipse.jetty.server.handler.ContextHandler.doScope(ContextHandler.java:1141)
at org.eclipse.jetty.server.handler.ScopedHandler.handle(ScopedHandler.java:141)
at org.eclipse.jetty.server.handler.HandlerWrapper.handle(HandlerWrapper.java:132)
at org.eclipse.jetty.server.Server.handle(Server.java:564)
at org.eclipse.jetty.server.HttpChannel.handle(HttpChannel.java:320)
at org.eclipse.jetty.server.HttpConnection.onFillable(HttpConnection.java:251)
at org.eclipse.jetty.io.AbstractConnection$ReadCallback.succeeded(AbstractConnection.java:279)
at org.eclipse.jetty.io.FillInterest.fillable(FillInterest.java:110)
at org.eclipse.jetty.io.ChannelEndPoint$2.run(ChannelEndPoint.java:124)
at org.eclipse.jetty.util.thread.QueuedThreadPool.runJob(QueuedThreadPool.java:672)
at org.eclipse.jetty.util.thread.QueuedThreadPool$2.run(QueuedThreadPool.java:590)
at java.lang.Thread.run(Thread.java:745)

```

#7 - 11/15/2018 04:26 PM - Andreas Kohlbecker

Another serialization issue:

```

login : admin
editor version : 5.5.0.qualifier
server : localhost (localhost-dev)
schema version : 5.0.0.0.20180514
os : Linux 4.4.0-130-generic amd64
java : 1.8.0_25
org.eclipse.swt.SWTException: Failed to execute runnable (org.springframework.remoting.RemoteAccessException:
Could not access HTTP invoker remote service at [http://localhost:8080/remoting/term.service]; nested exception
is java.io.WriteAbortedException: writing aborted; java.io.NotSerializableException: java.lang.reflect.Metho
d)
    at org.eclipse.swt.SWT.error(SWT.java:4533)
    at org.eclipse.swt.SWT.error(SWT.java:4448)
...

```

So we can't cache the method in the adapter class.

#8 - 11/16/2018 01:04 PM - Andreas Kohlbecker

- Related to bug #7910: TeamOrPersonField: readonly exception on bindig data added

#9 - 11/16/2018 01:27 PM - Andreas Kohlbecker

- Status changed from In Progress to Closed
- % Done changed from 40 to 100

I think it is save now to close this issue.

#10 - 11/19/2018 10:29 AM - Andreas Müller

- Status changed from Closed to Resolved
- Assignee changed from Andreas Kohlbecker to Andreas Müller
- % Done changed from 100 to 90

Reopen for doing review.

#11 - 01/27/2019 01:18 PM - Andreas Müller

- Status changed from Resolved to Feedback

- Assignee changed from Andreas Müller to Andreas Kohlbecker

Can you leave a note what you have final done (some commits have been "reverted" I see). Is it correct that only AnnotatableEntities.setAnnotations and Team.setTeamMembers. If yes we should relabel **this** ticket and open a follow up for the general issue (all collections).

I don't like the protected "_setTeamMembers" so much. It is not typical Java syntax to start a method with underscore. Also a comment is missing what this message is for. As it has no call hierarchy one may think it is not in use anymore. Is this true or is it used for calling via reflection? If the later is true it should be shortly mentioned in javadoc or comments.

#12 - 01/28/2019 02:12 PM - Andreas Kohlbecker

- Status changed from Feedback to Resolved

I don't like the protected "_setTeamMembers" so much. It is not typical Java syntax to start a method with underscore. Also a comment is missing what this message is for. As it has no call hierarchy one may think it is not in use anymore. Is this true or is it used for calling via reflection? If the later is true it should be shortly mentioned in javadoc or comments.

The method is an old remain from a merge from cate2 code into the cdm on 2010-03-10 [a784f00fdc](#). It is no longer needed and should be removed.

BTW: I did some research re garding methods starting with an underscore and found that starting methods with underscores are not against the oracle java coding conventions (<https://www.oracle.com/technetwork/java/codeconventions-135099.html>)

Reverted commits:

I can't see any commit related to this issue which has been reverted, which one are you referring to?

Summary of changes made for this issue

- EntityCollectionSetterAdapter implemented
- Documentation for EntityCollectionSetterAdapter in form of java doc at the EntityCollectionSetterAdapter.class
- using EntityCollectionSetterAdapter for AnnotatableEntity.annotations and Team.teamMembers

#13 - 01/28/2019 02:27 PM - Andreas Kohlbecker

last comment updated

#14 - 01/28/2019 02:31 PM - Andreas Kohlbecker

- Status changed from Resolved to Closed

- % Done changed from 90 to 100

_setTeamMembers(..) removed and closing ticket.

#15 - 01/29/2019 02:05 PM - Andreas Müller

Andreas Kohlbecker wrote:

BTW: I did some research re garding methods starting with an underscore and found that starting methods with underscores are not against the oracle java coding conventions (<https://www.oracle.com/technetwork/java/codeconventions-135099.html>)

for me this link does not work. It gives "We can't find the page you were looking for". Is it correct?

#16 - 01/29/2019 06:38 PM - Andreas Kohlbecker

this is quite strange .. anyway I edited me last comment and updated the link (<https://www.oracle.com/technetwork/java/codeconventions-135099.html>)

#17 - 08/28/2019 02:20 PM - Andreas Müller

- Copied to bug #8496: Improve public setters for entity collections added

#18 - 08/28/2019 02:21 PM - Andreas Müller

There is an open issue with the current implementation. I created a new ticket: [#8496](#)