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LightGuard (owner)

Revisions

- 111ab9 LightGuard March 24, 2011
- 6f16f0 <u>LightGuard</u> March 24, 2011



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Description: EntityConverter for Seam 3
Public Clone URL: git//gist.github.com/885926.git

Embed All Files: show embed EntityConverter.java #

embed raw

```
1 \quad {\tt package \ org.jboss.seam.faces.conversion;} \\
  import java.io.Serializable;
   import java.lang.reflect.Field;
   import java.lang.reflect.InvocationTargetException;
   import java.lang.reflect.Member;
  import java.lang.reflect.Method;
import java.util.Collections;
   import java.util.Map;
10 import java.util.concurrent.ConcurrentHashMap;
12 import javax.el.ValueExpression;
13 import javax.enterprise.inject.Any;
14 import javax.faces.component.PartialStateHolder;
15 import javax.faces.component.UIComponent;
16 import javax.faces.context.FacesContext;
17 import javax.faces.convert.*;
18 import javax.inject.Inject;
19 import javax.persistence.EntityManager;
20 import javax.persistence.metamodel.EntityType;
22 import org.jboss.seam.solder.properties.Properties;
23 import org.jboss.seam.solder.properties.Property;
25 /**
   * Converter for JPA entities. Uses the id of the entity for the key.
27 * @author <a href="http://community.jboss.org/people/LightGuard">Jason Porter</a>
28 */
29 @FacesConverter("org.jboss.seam.EntityCOnverter")
30 public class EntityConverter implements javax.faces.convert.Converter, PartialStateHolder {
31
       private static final Object[] ZERO ARGS = new Object[] {};
33
34
       @Inject @Anv
       private EntityManager entityManager;
36
37
       private Map<String, Serializable> stateMap = new ConcurrentHashMap<String, Serializable>();
private boolean initialStateMarked;
39
       private boolean isTransient;
40
42
       public Object getAsObject(FacesContext context, UIComponent component, String value) {
```

```
43
           final ValueExpression ve = component.getValueExpression("value");
44
           final Class<?> entityType = ve.getExpectedType();
45
           return this.entityManager.find(entityType, this.stateMap.get(value));
46
47
48
49
       public String getAsString(FacesContext context, UIComponent component, Object value) {
           final Serializable id = this.findId(value);
           final String idKey = value.getClass().getSimpleName() + id.hashCode();
52
           if (!this.stateMap.containsKey(idKey)) {
               this.stateMap.put(value.getClass().getSimpleName() + id.hashCode(), id);
53
54
55
56
           return idKey;
57
58
       private Serializable findId(Object entity) {
59
60
           final EntityType<?> entityType = this.entityManager.getMetamodel().entity(entity.getClass());
61
           final Member idAttribute = entityType.getId(entity.getClass()).getJavaMember();
62
63
64
           Property p = Properties.createProperty(idAttribute);
65
           return (Serializable) p.getValue(entity);
66
67
68
       // ----- State saving -----
69
70
       @Override
71
       public void markInitialState() {
72
           this.initialStateMarked = true;
73
74
75
       @Override
76
77
       public boolean initialStateMarked() {
          return this.initialStateMarked;
78
79
80
       @Override
       public void clearInitialState() {
81
82
           this.stateMap = new ConcurrentHashMap<String, Serializable>();
83
           this.initialStateMarked = false;
84
85
86
       @Override
       public Object saveState(FacesContext context) {
87
           if (context == null)
29
90
               throw new IllegalArgumentException("FacesContext must not be null");
91
92
93
           return Collections.unmodifiableMap(this.stateMap);
94
95
96
       @Override
97
       public void restoreState(FacesContext context, Object state) {
98
           if (state != null)
99
100
               this.stateMap = new ConcurrentHashMap<String, Serializable>((Map<? extends String,? extends Serializable>) state);
101
102
103
104
           this.stateMap.clear();
105
       }
106
107
       @Override
       public boolean isTransient() {
108
109
           return this.isTransient;
110
111
112
113
       public void setTransient(boolean newTransientValue) {
114
           this.isTransient = newTransientValue;
115
116}
117
```

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