C:\DATEN\Projects\Studium\openpatternrepository\30_sources\PatternRepository\web-interface\src\main\java\nl\rug\search\opr\controller\EditVersionController.java

```java
package nl.rug.search.opr.controller;

import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import javax.ejb.EJB;
import javax.faces.bean.ManagedBean;
import javax.faces.bean.SessionScoped;
import javax.faces.context.FacesContext;
import javax.faces.event.ActionEvent;
import javax.servlet.http.HttpServletRequest;
import nl.rug.search.opr.AbstractFormBean;
import nl.rug.search.opr.component.ConsequenceWrapper;
import nl.rug.search.opr.component.ForceWrapper;
import nl.rug.search.opr.component.TextBlockWrapper;
import nl.rug.search.opr.entities.pattern.Consequence;
import nl.rug.search.opr.entities.pattern.Force;
import nl.rug.search.opr.entities.pattern.Pattern;
import nl.rug.search.opr.pattern.PatternLocal;
import nl.rug.search.opr.entities.pattern.PatternVersion;
import nl.rug.search.opr.entities.pattern.TextBlock;
import nl.rug.search.opr.entities.template.Component;
import nl.rug.search.opr.entities.pattern.File;

/**
 *
 * @author Martin Verspai <martin@verspai.de>
 * @date 07.12.2009
 */
@ManagedBean(name="editVersionCtrl")
@SessionScoped
public class EditVersionController extends AbstractFormBean {

    @EJB
    private PatternLocal pl;

    private static final String PATTERN_ID = "patternId";
    private static final String VERSION_ID = "versionId";

    private static final String successMsg   = "Pattern has been edited!";
    private static final String failMsg      = "Pattern has not been edited!";

    private Pattern pattern;
    private PatternVersion patternVersion;
    private Map<String, TextBlockWrapper> blocks;
    private Collection<ForceWrapper> forces;
    private Collection<ConsequenceWrapper> consequences;

    public EditVersionController() {
        init();
    }

    @Override
    public String getFormId() {
        return "editDescription";
    }

    @Override
    public String successMessage() {
        return EditVersionController.successMsg;
    }

    @Override
```

```
66    public String failMessage() {
67       return EditVersionController.failMsg;
68    }
69
70    public void reset(ActionEvent e) {
71       reset();
72    }
73
74    @Override
75    public void reset() {
76       initData();
77    }
78
79    private void init() {
80       this.pattern       = null;
81       this.patternVersion = null;
82       this.blocks        = new HashMap<String, TextBlockWrapper>();
83       this.forces        = new ArrayList<ForceWrapper>();
84       this.consequences   = new ArrayList<ConsequenceWrapper>();
85    }
86
87
88    @Override
89    public void execute() {
90       List<TextBlock> tmpBlocks            = new ArrayList<TextBlock>();
91       List<Force> patternForces            = new ArrayList<Force>();
92       List<Consequence> patternConsequences = new ArrayList<Consequence>();
93
94       for (TextBlockWrapper tbw : blocks.values()) {
95          TextBlock tb = tbw.getTextBlock();
96             tb.setId(null);
97          tmpBlocks.add(tb);
98       }
99
100       for(ForceWrapper fw : this.forces) {
101          Force f = fw.getForce();
102             f.setId(null);
103          patternForces.add(f);
104       }
105
106       for(ConsequenceWrapper cw : this.consequences) {
107          Consequence c = cw.getConsequence();
108             c.setId(null);
109          patternConsequences.add(c);
110       }
111
112       PatternVersion newVersion = new PatternVersion();
113          newVersion.setAuthor(this.patternVersion.getAuthor());
114          newVersion.setBlocks(tmpBlocks);
115          newVersion.setConsequences(patternConsequences);
116          newVersion.setForces(patternForces);
117          newVersion.setLicense(this.patternVersion.getLicense());
118          newVersion.setSource(this.patternVersion.getSource());
119          newVersion.setTemplate(this.patternVersion.getTemplate());
120          newVersion.setFiles((List<File>)this.patternVersion.getFiles());
121
122       this.pattern.setCurrentVersion(newVersion);
123
124       pl.editVersion(this.pattern);
125
126       Pattern p = pl.getById(this.pattern.getId());
127
128       this.pattern = p;
129       this.patternVersion = p.getCurrentVersion();
130
131       initData();
132    }
133
```

```
134  public Pattern getPattern() {
135     HttpServletRequest request = (HttpServletRequest) FacesContext.getCurrentInstance().getExternalContext().getRequest();
136
137     String patternIdStr = request.getParameter(PATTERN_ID);
138     String versionIdStr = request.getParameter(VERSION_ID);
139
140     if( patternIdStr != null && !patternIdStr.equals("") ) {
141        Pattern tmpPattern;
142        PatternVersion tmpVersion;
143
144        try {
145           Long tmpId = Long.parseLong(patternIdStr);
146
147           if( (tmpPattern = pl.getById(tmpId)) != null) {
148              tmpVersion = tmpPattern.getCurrentVersion();
149
150              if( versionIdStr != null && !versionIdStr.equals("") ) {
151                 long versionId = Integer.parseInt(versionIdStr);
152
153                 for(PatternVersion pv : tmpPattern.getVersions()) {
154                    if( pv.getId().equals(versionId) ) {
155                       tmpVersion = pv;
156                    }
157                 }
158              }
159
160              if(this.pattern == null || !this.pattern.equals(tmpPattern)) {
161                 this.pattern = tmpPattern;
162                 this.patternVersion = tmpVersion;
163
164                 initData();
165              }
166
167              if(this.patternVersion == null || !this.patternVersion.equals(tmpVersion)) {
168                 this.patternVersion = tmpVersion;
169
170                 initData();
171              }
172           }
173        } catch (NumberFormatException nfe) { /* TODO: Do something? */ }
174     }
175
176     return this.pattern;
177  }
178
179  private void initData() {
180     List<File> uploads = new ArrayList<File>();
181        uploads.addAll(this.patternVersion.getFiles());
182
183     this.blocks        = new HashMap<String, TextBlockWrapper>();
184     this.forces        = new ArrayList<ForceWrapper>();
185     this.consequences  = new ArrayList<ConsequenceWrapper>();
186
187     for (Component c : this.patternVersion.getTemplate().getTextComponents()) {
188        if (!blocks.containsKey(c.getIdentifier())) {
189           TextBlock block = new TextBlock();
190           block.setComponent(c);
191           block.setText("");
192           blocks.put(c.getIdentifier(), new TextBlockWrapper(block));
193        }
194     }
195
196     for (TextBlock tb : this.patternVersion.getBlocks()) {
197        blocks.put(tb.getComponent().getIdentifier(), new TextBlockWrapper(tb));
198     }
199
200     for (Force f : this.patternVersion.getForces() ) {
201        this.forces.add(new ForceWrapper(f));
```

```
202         }
203
204         for (Consequence c : this.patternVersion.getConsequences() ) {
205             this.consequences.add(new ConsequenceWrapper(c));
206         }
207     }
208
209     public PatternVersion getVersion() {
210         return this.patternVersion;
211     }
212
213     public Map<String, TextBlockWrapper> getBlocks() {
214         return this.blocks;
215     }
216
217     public Collection<ForceWrapper> getForces() {
218         return forces;
219     }
220
221     public void setForces(Collection<ForceWrapper> forces) {
222         this.forces = forces;
223     }
224
225      public void addForce(ActionEvent e) {
226         ForceWrapper fw = new ForceWrapper(new Force());
227         fw.setEditMode(true);
228         forces.add(fw);
229     }
230
231     public void removeForce(ActionEvent e) {
232         ForceWrapper f = (ForceWrapper) e.getComponent().getAttributes().get("force");
233         forces.remove(f);
234     }
235
236     public Collection<ConsequenceWrapper> getConsequences() {
237         return this.consequences;
238     }
239
240     public void setConsequences(Collection<ConsequenceWrapper> consequences) {
241         this.consequences = consequences;
242     }
243
244     public void addConsequence(ActionEvent e) {
245         ConsequenceWrapper cw = new ConsequenceWrapper(new Consequence());
246         cw.setEditMode(true);
247         this.consequences.add(cw);
248     }
249
250     public void removeConsequence(ActionEvent e) {
251         ConsequenceWrapper c = (ConsequenceWrapper) e.getComponent().getAttributes().get("consequence");
252         this.consequences.remove(c);
253     }
254
255     public void removeFile(ActionEvent e) {
256         File f = (File) e.getComponent().getAttributes().get("file");
257         if (f != null) {
258             patternVersion.getFiles().remove(f);
259         }
260     }
261
262 }
263
264
```