

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

```
1 package nl.rug.search.opr.controller;
2
3 import java.util.ArrayList;
4 import java.util.Collection;
5 import java.util.HashMap;
6 import java.util.List;
7 import java.util.Map;
8 import javax.ejb.EJB;
9 import javax.faces.bean.ManagedBean;
10 import javax.faces.bean.SessionScoped;
11 import javax.faces.context.FacesContext;
12 import javax.faces.event.ActionEvent;
13 import javax.servlet.http.HttpServletRequest;
14 import nl.rug.search.opr.AbstractFormBean;
15 import nl.rug.search.opr.component.ConsequenceWrapper;
16 import nl.rug.search.opr.component.ForceWrapper;
17 import nl.rug.search.opr.component.TextBlockWrapper;
18 import nl.rug.search.opr.entities.pattern.Consequence;
19 import nl.rug.search.opr.entities.pattern.Force;
20 import nl.rug.search.opr.entities.pattern.Pattern;
21 import nl.rug.search.opr.pattern.PatternLocal;
22 import nl.rug.search.opr.entities.pattern.PatternVersion;
23 import nl.rug.search.opr.entities.pattern.TextBlock;
24 import nl.rug.search.opr.entities.template.Component;
25 import nl.rug.search.opr.entities.pattern.File;
26
27 /**
28  *
29  * @author Martin Verspai <martin@verspai.de>
30  * @date 07.12.2009
31  */
32 @ManagedBean(name="editVersionCtrl")
33 @SessionScoped
34 public class EditVersionController extends AbstractFormBean {
35
36     @EJB
37     private PatternLocal pl;
38
39     private static final String PATTERN_ID = "patternId";
40     private static final String VERSION_ID = "versionId";
41
42     private static final String successMsg = "Pattern has been edited!";
43     private static final String failMsg = "Pattern has not been edited!";
44
45     private Pattern pattern;
46     private PatternVersion patternVersion;
47     private Map<String, TextBlockWrapper> blocks;
48     private Collection<ForceWrapper> forces;
49     private Collection<ConsequenceWrapper> consequences;
50
51     public EditVersionController() {
52         init();
53     }
54
55     @Override
56     public String getFormId() {
57         return "editDescription";
58     }
59
60     @Override
61     public String successMessage() {
62         return EditVersionController.successMsg;
63     }
64
65     @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

```

```

1 package nl.rug.search.opr;
2
3 import org.apache.commons.logging.Log;
4 import org.apache.commons.logging.LogFactory;
5
6 import javax.servlet.http.HttpSessionEvent;
7 import javax.servlet.http.HttpSessionListener;
8 import java.io.File;
9
10 /**
11  *
12  * @author Martin Verspai <martin@verspai.de>
13  */
14 public class FileJanitor implements HttpSessionListener {
15
16     public static final Log logger = LogFactory.getLog(FileJanitor.class);
17     public static final String FILE_UPLOAD_DIRECTORY = "upload";
18
19     @Override
20     public void sessionDestroyed(HttpSessionEvent event) {
21         logger.info("Cleaning up files for destroyed session.");
22         String sessionId = event.getSession().getId();
23
24         String applicationPath = event.getSession().getServletContext().getRealPath(
25             event.getSession().getServletContext().getServletContextName());
26
27         File userDirectory = new File(applicationPath + FILE_UPLOAD_DIRECTORY + sessionId);
28
29         if (userDirectory.isDirectory()) {
30             try {
31                 userDirectory.delete();
32             }
33             catch (SecurityException e) {
34                 logger.error("Error deleting file upload directory: ", e);
35             }
36         }
37     }
38
39     @Override
40     public void sessionCreated(HttpSessionEvent event) {
41         // Nothing to do here
42     }
43 }
44 }
45
46

```

```

14
15 /**
16  *
17  * @author cm
18  */
19 public class FileServlet extends HttpServlet {
20
21     /**
22      * Processes requests for both HTTP <code>GET</code> and <code>POST</code> methods.
23      * @param request servlet request
24      * @param response servlet response
25      * @throws ServletException if a servlet-specific error occurs
26      * @throws IOException if an I/O error occurs
27      */
28     private static final Logger logger = Logger.getLogger(FileServlet.class.getName());
29     public static final String FILE_DIRECTORY = "opr.FILE_DIRECTORY";
30
31     @EJB
32     private FileLocal fb;
33
34     protected void processRequest(HttpServletRequest request, HttpServletResponse response)
35         throws ServletException, IOException {
36
37         OutputStream os = null;
38         try {
39             String requestedFile = request.getPathInfo().substring(1);
40             String filename = requestedFile;
41
42             int size = -1;
43             boolean scaleCubic = false;
44             if (requestedFile.matches("(xy)?[1-9][0-9]*px-.*")) {
45
46                 if (requestedFile.startsWith("xy")) {
47                     scaleCubic = true;
48                     requestedFile = requestedFile.substring(2);
49                 }
50
51                 String[] parts = requestedFile.split("px-");
52                 try {
53                     size = Integer.parseInt(parts[0]);
54                 } catch (NumberFormatException ex) {
55                     size = -1;
56                 }
57
58                 if (parts.length == 2) {
59                     filename = parts[1];
60                 }
61             }
62
63             long id;
64             try {
65                 id = Long.parseLong(filename);
66             } catch (NumberFormatException e) {
67                 response.sendError(404);
68                 return;
69             }
70
71             File file = fb.getById(id);
72
73
74             if (file == null) {
75                 response.sendError(404);
76                 return;
77             }
78

```

```

79 response.setContentType(file.getMime());
80 response.addHeader("Content-Disposition", "filename="+ file.getName() +".");
81 os = response.getOutputStream();
82
83
84 if (size > 0 && file != null) {
85
86     byte[] bytes;
87     if( (bytes = fb.getThumbnail(file, size, scaleCubic)) != null) {
88         os.write(bytes);
89     }
90
91     return;
92 }
93
94
95 os.write(file.getContent());
96
97 return;
98
99 } finally {
100     try {
101         os.close();
102     } catch(Exception ex) {
103         logger.log(Level.SEVERE, null, ex);
104     }
105 }
106
107 }
108
109 // <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">
110 /**
111  * Handles the HTTP <code>GET</code> method.
112  * @param request servlet request
113  * @param response servlet response
114  * @throws ServletException if a servlet-specific error occurs
115  * @throws IOException if an I/O error occurs
116  */
117 @Override
118 protected void doGet(HttpServletRequest request, HttpServletResponse response)
119     throws ServletException, IOException {
120     processRequest(request, response);
121 }
122
123 /**
124  * Handles the HTTP <code>POST</code> method.
125  * @param request servlet request
126  * @param response servlet response
127  * @throws ServletException if a servlet-specific error occurs
128  * @throws IOException if an I/O error occurs
129  */
130 @Override
131 protected void doPost(HttpServletRequest request, HttpServletResponse response)
132     throws ServletException, IOException {
133     processRequest(request, response);
134 }
135
136 /**
137  * Returns a short description of the servlet.
138  * @return a String containing servlet description
139  */
140 @Override
141 public String getServletInfo() {
142     return "Short description";
143 } // </editor-fold>
144 }
145
146

```

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```

23 /**
24  *
25  * @author Jan Nikolai Trzeszkowski <info@jn-t.de>
26  */
27 @ManagedBean(name = "formattingStep")
28 @ViewScoped
29 public class Formatting implements WizardStep {
30
31     @ManagedProperty(value = "#{addWizardController}")
32     protected AddWizardController wizard;
33     private Consequence editConsequence = null;
34     private Force editForce = null;
35     private UploadHelper upload = new UploadHelper();
36     private TextBlock editTextBlock = null;
37     private Map<String, TextBlock> blocks = new HashMap<String, TextBlock>();
38     private String reload;
39
40     public String getReload() {
41         return reload;
42     }
43
44     public void setReload(String reload) {
45         this.reload = reload;
46     }
47
48     public Map<String, TextBlock> getBlocks() {
49         return blocks;
50     }
51
52     public TextBlock getEditTextBlock() {
53         return editTextBlock;
54     }
55
56     public Consequence getEditConsequence() {
57         return editConsequence;
58     }
59
60     public Force getEditForce() {
61         return editForce;
62     }
63
64     public AddWizardController getWizard() {
65         return wizard;
66     }
67
68     public void setWizard(AddWizardController wizard) {
69         this.wizard = wizard;
70     }
71
72     @PostConstruct
73     private void load() {
74         PatternVersion v = wizard.getPatternVersion();
75         Template template = v.getTemplate();
76
77         blocks.clear();
78
79         for (Component c : template.getTextComponents()) {
80             if (!blocks.containsKey(c.getIdentifier())) {
81                 TextBlock block = new TextBlock();
82                 block.setComponent(c);
83                 block.setText("");
84                 blocks.put(c.getIdentifier(), block);
85             }
86         }
87     }

```

```

88     for (TextBlock tb : v.getBlocks()) {
89         blocks.put(tb.getComponent().getIdentifier(), tb);
90     }
91
92     if (template.getTextComponents().size() > 0) {
93         editTextBlock = blocks.get(template.getTextComponents().get(0).getIdentifier());
94     }
95
96     v.setBlocks(blocks.values());
97 }
98
99 public UploadHelper getUpload() {
100     return this.upload;
101 }
102
103 public void removeFile(ActionEvent e) {
104     File f = (File) e.getComponent().getAttributes().get("file");
105     if (f != null) {
106         wizard.getPatternVersion().getFiles().remove(f);
107     }
108 }
109
110 public void changeEditTextBlock(ActionEvent e) {
111     TextBlock textBlock = (TextBlock) e.getComponent().getAttributes().get("textBlock");
112     if (textBlock == editTextBlock) {
113         editTextBlock = null;
114     } else {
115         editTextBlock = textBlock;
116     }
117 }

```

```

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

```

```

1
2 package nl.rug.search.opr;
3
4 import java.io.IOException;
5 import javax.ejb.EJB;
6 import javax.servlet.ServletException;
7 import javax.servlet.http.HttpServlet;
8 import javax.servlet.http.HttpServletRequest;
9 import javax.servlet.http.HttpServletResponse;
10 import nl.rug.search.opr.file.FileLocal;
11 import org.slf4j.Logger;
12 import org.slf4j.LoggerFactory;
13
14 /**
15  *
16  * @author Christian Manteuffel <cm@notagain.de>
17  */
18 public class InitializationServlet extends HttpServlet {
19
20     private static final long serialVersionUID = 1L;
21
22     private Logger logger = LoggerFactory.getLogger(InitializationServlet.class);
23
24     @EJB
25     private FileLocal fileBean;
26
27     @Override
28     public void init() {
29         /*logger.info("Start Initialization");
30         logger.info("Init Search");
31         try {
32             searchBean.createSearchQuery("test");
33         } catch (QueryParseException ex) {
34             logger.info("Search Bean initialization error");
35         }
36         */
37         logger.info("Init FileBean Timer");
38         try {
39             fileBean.init();
40         } catch (Exception ex) {
41             logger.info("FileBean Timer initialization error");
42         }
43     }
44
45     /**
46      * Processes requests for both HTTP <code>GET</code> and <code>POST</code> methods.
47      * @param request servlet request
48      * @param response servlet response
49      * @throws ServletException if a servlet-specific error occurs
50      * @throws IOException if an I/O error occurs
51      */
52     protected void processRequest(HttpServletRequest request, HttpServletResponse response)
53     throws ServletException, IOException {
54     }
55
56     /**
57      * Handles the HTTP <code>GET</code> method.
58      * @param request servlet request
59      * @param response servlet response
60      * @throws ServletException if a servlet-specific error occurs
61      * @throws IOException if an I/O error occurs
62      */
63     @Override
64     protected void doGet(HttpServletRequest request, HttpServletResponse response)
65     throws ServletException, IOException {

```

```

66     processRequest(request, response);
67 }
68
69 /**
70  * Handles the HTTP <code>POST</code> method.
71  * @param request servlet request
72  * @param response servlet response
73  * @throws ServletException if a servlet-specific error occurs
74  * @throws IOException if an I/O error occurs
75  */
76 @Override
77 protected void doPost(HttpServletRequest request, HttpServletResponse response)
78 throws ServletException, IOException {
79     processRequest(request, response);
80 }
81
82 /**
83  * Returns a short description of the servlet.
84  * @return a String containing servlet description
85  */
86 @Override
87 public String getServletInfo() {
88     return "Short description";
89 }
90
91 }
92
93

```

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

```

1 package nl.rug.search.opr.backingbean;
2
3 import java.io.FileInputStream;
4 import java.io.FileNotFoundException;
5 import java.io.IOException;
6 import java.util.Map;
7 import javax.annotation.PostConstruct;
8 import javax.ejb.EJB;
9 import javax.faces.context.FacesContext;
10 import nl.rug.search.opr.entities.pattern.File;
11 import javax.faces.bean.ManagedBean;
12 import javax.faces.bean.ViewScoped;
13 import javax.faces.component.UIComponent;
14 import nl.rug.search.opr.file.FileException;
15 import nl.rug.search.opr.entities.pattern.License;
16 import nl.rug.search.opr.entities.pattern.PatternVersion;
17 import nl.rug.search.opr.file.FileLocal;
18 import org.icefaces.component.fileentry.FileEntry;
19 import org.icefaces.component.fileentry.FileEntryEvent;
20 import org.icefaces.component.fileentry.FileEntryResults;
21 import org.slf4j.Logger;
22 import org.slf4j.LoggerFactory;
23
24 /**
25  *
26  * @author Martin Verspai <martin@verspai.de>
27  * @version 2.0
28  * @date 26.10.2009
29  */
30 @ManagedBean(name = "uploadHelper")
31 @ViewScoped
32 public class UploadHelper {
33
34
35     protected PatternVersion version;
36     private License license;
37     private FileEntryResults.FileInfo fileInfo;
38     private String name;
39     private UIComponent uploadComponent;
40     @EJB
41     private FileLocal fileBean;
42     private Logger logger = LoggerFactory.getLogger(UploadHelper.class);
43
44
45     public UploadHelper() {
46     }
47
48     @PostConstruct
49     public void init() {
50         FacesContext ctx = FacesContext.getCurrentInstance();
51         String beanName = ctx.getExternalContext().getRequestParameterMap().get("patternVersion");
52
53         version = findBean(beanName, PatternVersion.class);
54     }
55
56     public static <T> T findBean(String beanName, Class<T> beanClass) {
57         FacesContext context = FacesContext.getCurrentInstance();
58         return beanClass.cast(context.getApplication().evaluateExpressionGet(context, "#{ " + beanName + " }", beanClass));
59     }
60
61     public PatternVersion getVersion() {
62         return version;
63     }
64
65     public void setVersion(PatternVersion version) {

```

```

66     this.version = version;
67 }
68
69 public void listener(FileEntryEvent event) {
70     FileEntry fileEntry = (FileEntry) event.getSource();
71     FileEntryResults results = fileEntry.getResults();
72
73     for (FileEntryResults.FileInfo fi : results.getFiles()) {
74         FacesContext context = FacesContext.getCurrentInstance();
75         if (fi.isSaved()) {
76             fileInfo = fi;
77             name = fi.getFileName();
78             saveFile(fileInfo, name);
79         }
80     }
81 }
82 }
83
84 private void saveFile(FileEntryResults.FileInfo fileInfo, String name) {
85
86     try {
87
88         File file = null;
89         if (fileInfo.getStatus().isSuccess()) {
90
91             String fileName = fileInfo.getFileName();
92             file = fileBean.add(license, fileName, new FileInputStream(fileInfo.getFile()));
93         }
94         version.getFiles().add(file);
95     }
96
97     catch (FileNotFoundException ex) {
98         System.out.println("File not found");
99     }
100    catch (IOException ex) {
101        System.out.println("IO exception");
102    }
103    catch (FileException ex) {
104    }
105    finally {
106        java.io.File physicalFile = fileInfo.getFile();
107        if (physicalFile.exists()) {
108            physicalFile.delete();
109        }
110        fileInfo = null;
111        name = "";
112    }
113 }
114
115 public String getName() {
116     return name;
117 }
118
119 public void setName(String name) {
120     this.name = name;
121 }
122
123 public License getLicense() {
124     return license;
125 }
126
127 public void setLicense(License license) {
128     this.license = license;
129 }
130
131 public UIComponent getUploadComponent() {
132     return uploadComponent;
133 }
134
135 public void setUploadComponent(UIComponent uploadComponent) {

```

```

134     this.uploadComponent = uploadComponent;
135 }
136
137 public String getSupportedFileTypes() {
138     String out = "";
139     for (String fileType : fileBean.getSupportedMimeTypes()) {
140
141         String[] split = fileType.split("/");
142
143         if (split.length == 2) {
144             out = out.concat(".") + split[1] + ", ";
145         }
146     }
147     out = out.substring(0, out.length() - 2);
148
149     return out;
150 }
151
152 public int getMaximumFileSize() {
153     return fileBean.getMaximumFileSizeMb();
154 }
155 }
156
157

```