

```
1  import java.io.*;
2  import java.sql.*;
3  import javax.servlet.*;
4  import javax.servlet.http.*;
5
6  public class Navi extends HttpServlet {
7
8      final String dbDriver="org.postgresql.Driver";
9      final String dbServer ="jdbc:postgresql://localhost:10388/tsoha";
10     final String dbUser= "avtanska";           // replace with your db user account
11     final String dbPassword ="postgres"; // replace with your password
12
13
14     public void service(HttpServletRequest req, HttpServletResponse res)
15         throws ServletException, IOException {
16         ServletOutputStream out;
17         res.setContentType("text/html");
18         out= res.getOutputStream();
19
20         HttpSession session = req.getSession(true);
21
22         String submit = req.getParameter("submit");
23         String ulos = req.getParameter("ulos");
24         String tunnus = req.getParameter("tunnus");
25         String salasana = req.getParameter("salasana");
26
27         String salasanaQuery = "SELECT * FROM salasana where tunnus='" +
28                                 tunnus + "' and salasana='" + salasana + "'";
29
30         String virhe = null;
31
32
33         Connection con=null;
34         con= createDbConnection(dbDriver,dbServer,dbUser,dbPassword,out);
35         if (con==null) {
36             out.println("</body></html>");
37             return;
38         }
39
40         // connection established
41
42         Statement stmt = null;
43         ResultSet rs = null;
44         try {
45             stmt = con.createStatement();
46             rs = stmt.executeQuery(salasanaQuery);
47             if (!rs.next() && submit != null) {
48                 virhe = "<span style='font-weight: bold; color: #ff0000'>" +
49                     "Tunnus ja salasana eivät täsmää.</span>";
50             }
51
52
53         } catch (SQLException ee) {
54             out.println("Tietokantavirhe "+ee.getMessage());
55         } finally {
56             try {
57                 if (rs!=null) rs.close();
58                 if (stmt!=null) stmt.close();
59                 con.close();
60             } catch(SQLException e) {
61                 out.println("An SQL Exception was thrown.");
62             }
63         }
64
65
66
67         /*
68         * Rekisteröitymättömän käyttäjän navigointipalkki
69         */
```

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70
71     if (submit == null || (submit != null && virhe != null) || ulos != null) {
72
73         if (ulos != null) {
74             String temp = "";
75             session.putValue("sessionTunnus", temp);
76         }
77
78         out.println("<html><head><title></title>" +
79             "<link rel='stylesheet' type='text/css' href='http://" +
80             "db.cs.helsinki.fi/u/avtanska/tsoha/navi.css' />" +
81             "</head><body bgcolor='#cccccc' style='margin: 2'>" +
82             "<form method='post' action='http://db.cs.helsinki.fi/" +
83             "s/avtanska/KalenteriYleinen' target='main'>" +
84             "<table width='175' cellpadding='5' border='0'><tr>" +
85             "<td height='100' valign='top'><a href='http://" +
86             "db.cs.helsinki.fi/u/avtanska/tsoha/' target='_top'>" +
87             "apua?</a><br /><hr />" +
88             "</td></tr><tr><td><b>Kalenterit:</b></td></tr><tr>");
89
90         out.println("<td>Ryhmä:<br /><select " +
91             "onFocus=document.forms[0].henkilo.value='tyhjä' " +
92             "name='ryhma'>" +
93             "<option value='tyhjä'>-- valitse --");
94
95         con=null;
96         con= createDbConnection(dbDriver,dbServer,dbUser,dbPassword,out);
97         if (con==null) {
98             out.println("</body></html>");
99             return;
100         }
101
102         stmt = null;
103         rs = null;
104         try {
105             stmt = con.createStatement();
106             rs = stmt.executeQuery("select nimi from ryhmä order by nimi");
107             while(rs.next()) {
108                 out.println("<option>" + rs.getString("nimi"));
109             }
110         } catch (SQLException ee) {
111             out.println("Tietokantavirhe "+ee.getMessage());
112         } finally {
113             try {
114                 if (rs!=null) rs.close();
115                 if (stmt!=null) stmt.close();
116                 // con.close();
117             } catch (SQLException e) {
118                 out.println("An SQL Exception was thrown.");
119             }
120         }
121         out.println("</select>&nbsp;&nbsp;&nbsp;tai</td></tr>");
122
123         out.println("<tr><td>Henkilö:<br /><select " +
124             "onFocus=document.forms[0].ryhma.value='tyhjä' " +
125             "name='henkilo'>" +
126             "<option value='tyhjä'>-- valitse --");
127
128
129         if (con==null) {
130             out.println("</body></html>");
131             return;
132         }
133
134         stmt = null;
135         rs = null;
136         try {
137             stmt = con.createStatement();
138             rs = stmt.executeQuery("select tunnus from henkilö order by tunnus");

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139         while(rs.next()) {
140             if (!(rs.getString("tunnus").equals("admin"))) {
141                 out.println("<option>" + rs.getString("tunnus"));
142             }
143         }
144     } catch (SQLException ee) {
145         out.println("Tietokantavirhe "+ee.getMessage());
146     } finally {
147         try {
148             if (rs!=null) rs.close();
149             if (stmt!=null) stmt.close();
150         } catch(SQLException e) {
151             out.println("An SQL Exception was thrown.");
152         }
153     }
154 }
155
156 out.println("</select><p><input name='submit' type='submit' " +
157             "value='Katso'></p></form><br /><hr /></td></tr>");
158
159
160 out.println("<tr><td height='50'>");
161
162 if (virhe != null) {
163     out.println("<p>" + virhe + "</p>");
164 }
165
166 out.println("</td></tr><tr><td><form method='post' action='Navi'>" +
167             "tunnus:<br />" +
168             "<input name='tunnus' type='text'></td></tr>" +
169             "<tr><td>salasana:<br />" +
170             "<input name='salasana' type='password'></td></tr>" +
171             "<tr><td align='left'>" +
172             "<input name='submit' type='submit' value='Sisään'>" +
173             "</td></tr><tr><td><hr /></td></tr><tr><td>" +
174             "<a href='http://db.cs.helsinki.fi/u/avtanska/tsoha/' +
175             "luo_tunnus.htm' target='main'>Luo tunnus</a></td></tr>" +
176             "<tr><td><hr /></td></tr></table></form></body></html>");
177
178 } // loppu if submit null
179
180
181
182 /*
183  * Sisäänkirjautuneen käyttäjän navigointipalkki
184  */
185
186 else {
187
188     tunnus = req.getParameter("tunnus");
189     salasana = req.getParameter("salasana");
190
191
192     /*
193     * Luodaan uusi sessio ja tallennetaan kirjautuneen käyttäjän
194     * tunnus sessio-oliioon
195     */
196
197     session = req.getSession(true);
198     session.putValue("sessionTunnus", tunnus);
199     String sessionTunnus = (String)session.getValue("sessionTunnus");
200
201
202     out.println("<html><head><title></title>" +
203                 "<link rel='stylesheet' type='text/css' href='http://" +
204                 "db.cs.helsinki.fi/u/avtanska/tsoha/navi.css' />" +
205                 "</head><body bgcolor='#cccccc' style='margin: 2'>" +
206                 "<form method='post' action='http://db.cs.helsinki.fi/" +
207                 "s/avtanska/Kalenteri' target='main'>" +

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```
277         out.println("<option>" + rs.getString("tunnus"));
278     }
279 }
280 } catch (SQLException ee) {
281     out.println("Tietokantavirhe "+ee.getMessage());
282 } finally {
283     try {
284         if (rs!=null) rs.close();
285         if (stmt!=null) stmt.close();
286         // con.close();
287     } catch(SQLException e) {
288         out.println("An SQL Exception was thrown.");
289     }
290 }
291
292 out.println("</select><p><input name='submit' type='submit' " +
293     "value='Katso'></p></form><br /><hr /></td></tr>");
294
295
296 out.println("<tr><td height='100' valign='bottom'>");
297
298
299 /*
300  * Jos käyttäjällä on luotuja ryhmiä, ne tulostetaan tässä.
301  * Admin-ylläpitokäyttäjälle tulostetaan kaikki ryhmät.
302  */
303
304 if (con==null) {
305     out.println("</body></html>");
306     return;
307 }
308
309 stmt = null;
310 rs = null;
311 try {
312     stmt = con.createStatement();
313     rs = stmt.executeQuery("SELECT nimi FROM ryhmä WHERE omistaja='" +
314         sessionTunnus + "'");
315     if (sessionTunnus.equals("admin")) {
316         rs = stmt.executeQuery("SELECT nimi FROM ryhmä ORDER BY nimi");
317         out.println("<form method='post' action='OmatRyhmät' " +
318             "target='main'>omat ryhmät:<br />" +
319             "<select name='omategyhmät'>" +
320             "<option value='tyhjä'>-- valitse --");
321
322         while(rs.next()) {
323             out.println("<option>" + rs.getString("nimi"));
324         }
325
326         out.println("</select><p><input type='submit' name='submit' " +
327             "value='Mene'></p>");
328     }
329     else if (rs.next()) {
330         rs = stmt.executeQuery("SELECT nimi FROM ryhmä WHERE omistaja='" +
331             sessionTunnus + "' ORDER BY nimi");
332         out.println("<form method='post' action='OmatRyhmät' " +
333             "target='main'>omat ryhmät:<br /><select " +
334             "name='omategyhmät'>" +
335             "<option value='tyhjä'>-- valitse --");
336
337         while(rs.next()) {
338             out.println("<option>" + rs.getString("nimi"));
339         }
340
341         out.println("</select><p><input type='submit' name='submit' " +
342             "value='Mene'></p>");
343     }
344 }
345
```

```
346     } catch (SQLException ee) {
347         out.println("Tietokantavirhe "+ee.getMessage());
348     } finally {
349         try {
350             if (rs!=null) rs.close();
351             if (stmt!=null) stmt.close();
352             con.close();
353         } catch(SQLException e) {
354             out.println("An SQL Exception was thrown.");
355         }
356     }
357
358
359     out.println("</td></tr><tr><td><hr /></td></tr><tr><td>" +
360         "<a href='http://db.cs.helsinki.fi/s/avtanska/TeeVaraus' " +
361         "target='main'>Tee varaus</a><br />" +
362         "<a href='LuoRyhma' target='main'>Luo ryhmä</a><br />" +
363         "<a href='OmatTiedot' target='main'>Omat tiedot</a><br />" +
364         "</td></tr><tr><td><hr />" +
365         "<a href='http://db.cs.helsinki.fi/u/avtanska/tsoha/index.html' " +
366         "target='_top'>Kirjaudu ulos</a></td></tr></table></body></html>");
367
368     } // loppu else
369
370 }
371
372
373 private Connection createDbConnection(
374     String dbDriver, String dbServer, String dbUser, String dbPassword,
375     ServletOutputStream out) throws IOException {
376
377     // establish a database connection
378     try{
379         Class.forName(dbDriver);           // load driver
380     } catch (ClassNotFoundException e) {
381         out.println("Couldn't find driver "+dbDriver);
382         return null;
383     }
384     Connection con=null;
385     try {
386         con = DriverManager.getConnection(dbServer,dbUser,dbPassword);
387     } catch (SQLException se) {
388         out.println("Couldn't get connection to "+dbServer+
389             " for "+ dbUser+"<br>");
390         out.println(se.getMessage());
391     }
392     return con;
393 }
394
395 }
```