# Java Server Faces Auditory Laboratory Example 001

# Линкови

index.jsp

menu.jsp

META-INF\MANIFEST.MF

obaveze.xhtml

pregledObaveza.xhtml

unosObaveza.xhtml

WEB-INF\components\body obaveze.xhtml

WEB-INF\components\body pregledObaveza.xhtml

WEB-INF\components\body unosObaveza.xhtml

WEB-INF\components\header.xhtml

WEB-INF\faces-config.xml

WEB-INF\lib\javax.faces-2.1.24.jar

WEB-INF\lib\mysql-connector-java-8.0.13.jar

WEB-INF\planer obaveza.sql

WEB-INF\templates\template.xhtml

WEB-INF\web.xm1

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### BOOKS APP MENU

Obaveze Draglad abo

Pregled obaveza
Unos obaveza

Menu

Index

Trenutni datum: 10.08.2021. Adresa sa koje korisnik pristupa: http://localhost:8080/049\_IP\_Vjezbe\_Materijali\_JSF\_01/obaveze.xhtml

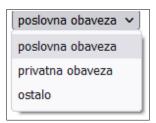
Pregled obaveza || Unos obaveza
Obaveze za trazeni datum su:

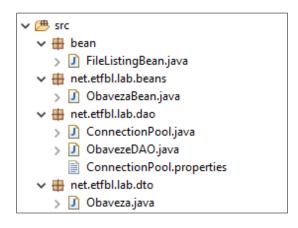
ID obaveze Opis Kategorija Adresa korisnika Datum Obrisi obavezu

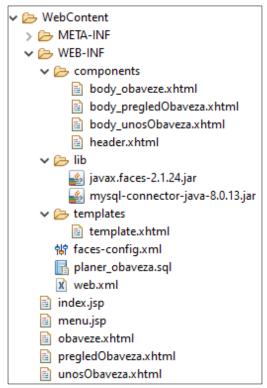
Trenutni datum: 10.08.2021. Adresa sa koje korisnik pristupa: http://localhost:8080/049_IP_Vjezbe_Materijali_JSF_01/obaveze.xhtml						
Pregled obaveza    Unos obaveza Obaveze za trazeni datum su:						
ID obaveze	Opis	Kategorija	Adresa korisnika	Datum	Obrisi obavezu	
1	opis	neka	adresa	2018-01-17	Obrisi - 1	
2	Ovo je nova obaveza	poslovna obaveza	Neka	2018-01-20	Obrisi - 2	
3	Polaganje ispita.	poslovna obaveza	Banja Luka	2021-01-01	Obrisi - 3	
ļ	Zavrsavanje kalkulatora.	privatna obaveza	Modrica	2021-01-02	Obrisi - 4	
5	Turnir u Chicken Invandersu.	ostalo	New York	2021-01-29	Obrisi - 5	

Trenutni datum: 10.08.2021. Adresa sa koje korisnik pristupa: http://localhost:8080/049_IP_Vjezbe_Materijali_JSF_01/pregledObaveza.xhtml				
Pregled obaveza    Unos obaveza				
Unesite datum za prikaz: 01.09.2021. Prikaži obaveze				

Trenutni datum: 10.08.2021. Adresa sa koje korisnik pristupa: http://localhost:8080/049_IP_Vjezbe_Materijali_JSF_01/unosObaveza.xhtml					
Pregled obaveza    Unos obaveza					
Unesite podatke o zeljenoj obavezi					
Opis:					
Adresa:					
Datum:					
Kategorija: poslovna obaveza 🗸					
Unesi obavezu					







### ConnectionPool.java

```
1 jdbcURL=jdbc:mysql://127.0.0.1:3306/planer_obaveza?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
2 username=root
3 password=root
4 driver=com.mysql.cj.jdbc.Driver
5 preconnectCount=2
6 max/IdleConnections=25
7 maxConnections=25
```

### web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
2@ <web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://xmlns.jcp.org/xml/ns/javaee"
       <display-name>049_IP_Vjezbe_Materijali_JSF_01</display-name>
3
       <welcome-file-list>
40
           <welcome-file>index.html</welcome-file>
6
           <welcome-file>index.htm</welcome-file>
           <welcome-file>index.jsp</welcome-file>
8
           <welcome-file>default.html</welcome-file>
9
           <welcome-file>default.htm</welcome-file>
0
           <welcome-file>default.jsp</welcome-file>
1
           <welcome-file>pregledObaveza.xhtml</welcome-file>
2
      </welcome-file-list>
3
4⊖
5
           <servlet-name>Faces Servlet
           <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
6
           <load-on-startup>1</load-on-startup>
8
       </servlet>
9⊝
       <servlet-mapping>
20
          <servlet-name>Faces Servlet</servlet-name>
           <url-pattern>*.xhtml</url-pattern>
21
22
       </servlet-mapping>
23⊝
       <context-param>
           <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
14
25
           <param-value>client</param-value>
26
       </context-param>
27⊝
       <context-param>
8.
           <param-name>javax.servlet.jsp.jstl.fmt.localizationContext</param-name>
29
           <param-value>resources.application</param-value>
30
       </context-param>
31
32
  </web-app>
```

# faces-config.xml

# planer\_obaveza.sql

```
CREATE DATABASE IF NOT EXISTS `planer_obaveza`;

USE `planer_obaveza`;

DROP TABLE IF EXISTS `obaveza`;

CREATE TABLE `obaveza` (

'id' int(11) NOT NULL AUTO_INCREMENT,

'opis' varchar(45) NOT NULL,

'datum' date NOT NULL,

'kategorija` varchar(45) NOT NULL,

'kategorija` varchar(45) NOT NULL,

PRIMARY KEY (`id')

PRIMARY KEY (`id')

SHOSINE=InnoDB DEFAULT CHARSET=utf8;

INSERT INTO `obaveza` VALUES (1,'opis','2018-01-17','neka','adresa'),(2,'Ovo je nova obaveza','2018-01-20','poslovna obaveza','Neka')
```

#### unosObaveza.html

```
1⊖ khtml xmlns="http://www.w3.org/1999/xhtml"
         xmlns:ui="http://java.sun.com/jsf/facelets"
3
         xmlns:h="http://java.sun.com/jsf/html">
4
       <h:head/>
5⊝
       <h:body>
6⊝
           <ui:composition template="/WEB-INF/templates/template.xhtml">
7⊝
               <ui:define name="header">
                    <ui:include src="/WEB-INF/components/header.xhtml"></ui:include>
8
9
               </ui:define>
10⊝
               <ui:define name="body">
                    <ui:include src="/WEB-INF/components/body unosObaveza.xhtml"></uiiinclude>
11
12
               </ui:define>
13
           </ui:composition>
14
       </h:body>
15 </html>
```

# pregledObaveze.xhtml

```
1⊖khtml xmlns="http://www.w3.org/1999/xhtml"
         xmlns:ui="http://java.sun.com/jsf/facelets"
         xmlns:h="http://java.sun.com/jsf/html">
3
4
       <h:head/>
50
       <h:body>
6⊖
           <ui:composition template="/WEB-INF/templates/template.xhtml">
7⊕
               <ui:define name="header">
                    <ui:include src="/WEB-INF/components/header.xhtml"></ui:include>
8
9
               </ui:define>
10⊝
               <ui:define name="body">
                   <ui:include src="/WEB-INF/components/body_pregledObaveza.xhtml">k/ui:include>
11
12
               </ui:define>
13
           </ui:composition>
       </h:body>
14
15 </html>
```

### obaveze.xhtml

```
1⊖ <html xmlns="http://www.w3.org/1999/xhtml"
         xmlns:ui="http://java.sun.com/jsf/facelets"
 2
         xmlns:h="http://java.sun.com/jsf/html">
 3
4
       <h:head/>
 5⊝
       <h:body>
 6⊝
           <ui:composition template="/WEB-INF/templates/template.xhtml">
 7⊝
                <ui:define name="header">
 8
                    <ui:include src="/WEB-INF/components/header.xhtml"></ui:include>
               </ui:define>
 9
                <ui:define name="body">
10⊖
                    <ui:include src="/WEB-INF/components/body_obaveze.xhtml"></ui:include>
11
12
                </ui:define>
           </ui:composition>
13
      </h:body>
14
15 </html>
```

# template.xhtml

```
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
 20 <html xmlns="http://www.w3.org/1999/xhtml"
         xmlns:ui="http://java.sun.com/jsf/facelets"
         xmlns:h="http://java.sun.com/jsf/html"
 5
         xmlns:f="http://java.sun.com/jsf/core">
 6⊖
        <h:head>
 7
           <title>Aplikacija za planiranje obaveza</title>
       </h:head>
 8
 9⊝
       <h:body>
10
            <ui:insert name="header" />
            <ui:insert name="body" />
11
12
        </h:body>
13 </html>
```

# header.xhtml

# body\_unosObaveza.xhtml

```
1⊝ <html xmlns="http://www.w3.org/1999/xhtml"
         xmlns:ui="http://java.sun.com/jsf/facelets"
3
         xmlns:h="http://java.sun.com/jsf/html
4
         xmlns:f="http://java.sun.com/jsf/core">
5
       <h:head />
6⊝
       <ui:composition>
       <hr/>
8
           <h:outputText value="Unesite podatke o zeljenoj obavezi"></h:outputText>
9
           <hr />
           <h:form>
0<del>0</del>
           <h:panelGrid columns="2">
10
               <h:outputText value="Opis: "></h:outputText>
3⊝
               <h:inputTextarea value="${obavezaBean.obaveza.opis}">
4
               </h:inputTextarea>
5
               <h:outputText value="Adresa: "></h:outputText>
               <h:inputText value="${obavezaBean.obaveza.adresa}">
6<del>0</del>
               </h:inputText>
8
               <h:outputText value="Datum: "></h:outputText>
               9⊝
0
1
               </h:inputText>
2
               <h:outputText value="Kategorija: "></h:outputText>
3⊝
               <h:selectOneMenu value="${obavezaBean.obaveza.kategorija}">
                   <f:selectItem itemValue="postovna obaveza" itemLabel="postovna obaveza"></f:selectItem>
<f:selectItem itemValue="privatna obaveza" itemLabel="privatna obaveza"></f:selectItem>
4
5
                   <f:selectItem itemValue="ostalo" itemLabel="ostalo"></f:selectItem>
6
7
               </h:selectOneMenu>
8
               <h:outputText value=""></h:outputText>
9
               <h:commandButton value="Unesi obavezu" action="#{obavezaBean.upisiObavezu}"></h:commandButton>
0
           </h:panelGrid>
1
           </h:form>
2
           <h:outputText value="${obavezaBean.poruka}"></h:outputText>
3
       </ui:composition>
```

### body\_pregledObaveza.xhtml

```
10 <html xmlns="http://www.w3.org/1999/xhtml"
          xmlns:ui="http://java.sun.com/jsf/facelets"
xmlns:h="http://java.sun.com/jsf/html"
 3
          xmlns:f="http://java.sun.com/jsf/core">
 4
 5
        <h:head />
        <ui:composition>
 60
            <hr />
 80
             <h:form>
             <h:panelGrid columns="2">
 90
                 <h:outputText value="Unesite datum za prikaz: "></h:outputText>
10
                 <h:inputText value="${obavezaBean.datum}">
11⊝
12
                 </h:inputText>
                 <h:outputText value=""></h:outputText>
13
                 <h:commandButton value="Prikaži obaveze" action="#{obavezaBean.ocitajObavezeIzBaze}"></h:commandButton>
14
             </h:panelGrid>
15
16
             </h:form>
17
        </ui:composition>
18 </html>
```

# body\_obaveze.xhtml

```
10 <html xmlns="http://www.w3.org/1999/xhtml"
       xmlns:ui="http://java.sun.com/jsf/facelets"
        xmlns:h="http://java.sun.com/jsf/html"
 3
 4
        xmlns:f="http://java.sun.com/jsf/core">
 5 <h:head />
 6⊖ <ui:composition>
       <h:form>
 8
            <b>Obaveze za trazeni datum su:</b>
 9⊝
            <h:dataTable value="${obavezaBean.obaveze}" var="obaveza"
                style="width: 100%; align: center">
10
11⊖
                <h:column>
                    <f:facet name="header">ID obaveze</f:facet>
12
13⊖
                    <h:outputText value="${obaveza.id}">
14
                    </h:outputText>
15
                </h:column>
16⊖
                <h:column>
17
                    <f:facet name="header">Opis</f:facet>
18
                    <h:outputText value="${obaveza.opis}"></h:outputText>
19
                </h:column>
20⊝
                <h:column>
21
                    <f:facet name="header">Kategorija</f:facet>
22
                    <h:outputText value="${obaveza.kategorija}"></h:outputText>
23
                </h:column>
24⊖
                <h:column>
25
                    <f:facet name="header">Adresa korisnika</f:facet>
26
                    <h:outputText value="${obaveza.adresa}"></h:outputText>
27
                </h:column>
28⊝
                <h:column>
                    <f:facet name="header">Datum</f:facet>
29
30
                    <h:outputText value="${obaveza.datum}"></h:outputText>
31
                </h:column>
32⊖
                <h:column>
                    <f:facet name="header">Obrisi obavezu</f:facet>
33
                    <h:commandLink value="Obrisi - ${obaveza.id}"
34⊕
35
                        action="#{obavezaBean.obrisiObavezu}">
                        <f:param value="${obaveza.id}" name="id" />
36
37
                    </h:commandLink>
38
                </h:column>
            </h:dataTable>
39
        </h:form>
40
41 </ui:composition>
42 </html>
```

# Obaveza.java

```
package net.etfbl.lab.dto;
3⊕ import java.io.Serializable; ...
6 public class Obaveza implements Serializable {
8
       private static final long serialVersionUID = -5152941347101008809L;
9
       private int id;
10
       private String opis;
11
       private Date datum;
12
       private String kategorija;
13
       private String adresa;
14
15⊜
       public Obaveza() {
16
           // TODO Auto-generated constructor stub
17
18
19⊝
       public Obaveza(int id, String opis, Date datum, String kategorija, String adresa) {
           super();
20
21
           this.id = id;
22
           this.opis = opis;
23
           this.datum = datum;
24
           this.kategorija = kategorija;
25
           this.adresa = adresa;
26
       }
```

```
28⊝
       public int getId() {
29
           return id;
30
31
32⊖
       public void setId(int id) {
33
           this.id = id;
34
35
36⊝
       public String getOpis() {
37
           return opis;
38
39
40⊝
       public void setOpis(String opis) {
41
           this.opis = opis;
42
43
44⊝
       public Date getDatum() {
45
           return datum;
46
47
48⊝
       public void setDatum(Date datum) {
49
           this.datum = datum;
50
51
52⊝
       public String getKategorija() {
53
           return kategorija;
54
55
56⊝
       public void setKategorija(String kategorija) {
57
           this.kategorija = kategorija;
58
59
60⊝
       public String getAdresa() {
61
           return adresa;
62
63
       public void setAdresa(String adresa) {
64⊝
65
          this.adresa = adresa;
66
67
68 }
69
```

### ConnectionPool.java

```
package net.etfbl.lab.dao;
 3⊕ import java.sql.*; ...
 6 public class ConnectionPool {
     public static ConnectionPool getConnectionPool() {
 9
       return connectionPool;
10
11
     private static ConnectionPool connectionPool;
12
13
14⊖
     static {
15
       ResourceBundle bundle =
16
          PropertyResourceBundle.getBundle("net.etfbl.lab.dao.ConnectionPool");
17
        String jdbcURL = bundle.getString("jdbcURL");
18
        String username = bundle.getString("username");
19
       String password = bundle.getString("password");
20
       String driver = bundle.getString("driver");
21
        int preconnectCount = 0;
22
        int maxIdleConnections = 10;
23
       int maxConnections = 10;
24
       try {
25
            Class.forName(driver);
26
         preconnectCount = Integer.parseInt(
27
            bundle.getString("preconnectCount"));
28
          maxIdleConnections = Integer.parseInt(
29
            bundle.getString("maxIdleConnections"));
30
          maxConnections = Integer.parseInt(
31
            bundle.getString("maxConnections"));
32
        } catch (Exception ex) {
33
          ex.printStackTrace();
34
35
       try {
36
          connectionPool = new ConnectionPool(
37
            jdbcURL, username, password,
38
            preconnectCount, maxIdleConnections,
39
           maxConnections);
40
        } catch (Exception ex) {
41
          ex.printStackTrace();
42
43
```

```
45⊜
     protected ConnectionPool(String aJdbcURL, String aUsername,
46
        String aPassword, int aPreconnectCount,
47
        int aMaxIdleConnections,
48
       int aMaxConnections)
49
       throws ClassNotFoundException, SQLException {
50
51
       freeConnections = new Vector<Connection>();
52
       usedConnections = new Vector<Connection>();
       jdbcURL = aJdbcURL;
53
      username = aUsername;
54
       password = aPassword;
55
       preconnectCount = aPreconnectCount;
56
57
       maxIdleConnections = aMaxIdleConnections;
58
       maxConnections = aMaxConnections;
59
60
      for (int i = 0; i < preconnectCount; i++) {</pre>
61
         Connection conn = DriverManager.getConnection(
62
            jdbcURL, username, password);
63
         conn.setAutoCommit(true);
64
         freeConnections.addElement(conn);
65
66
       connectCount = preconnectCount;
67
     }
```

```
public synchronized Connection checkOut()
 69⊕
 70
         throws SQLException {
 71
         Connection conn = null;
 72
 73
         if (freeConnections.size() > 0) {
          conn = (Connection)freeConnections.elementAt(0);
 74
 75
          freeConnections.removeElementAt(0);
          usedConnections.addElement(conn);
 76
        } else {
 77
          if (connectCount < maxConnections) {</pre>
 78
 79
            conn = DriverManager.getConnection(
 80
               jdbcURL, username, password);
            usedConnections.addElement(conn);
 81
             connectCount++;
 82
 83
          } else {
 84
            try {
 85
              wait();
               conn = (Connection)freeConnections.elementAt(0);
 86
 87
               freeConnections.removeElementAt(0);
              usedConnections.addElement(conn);
 88
 29
             } catch (InterruptedException ex) {
 90
               ex.printStackTrace();
 91
          }
 92
 93
         }
 94
         return conn;
 95
 96
 97⊖ public synchronized void checkIn(Connection aConn) {
 98
        if (aConn == null)
 99
          return;
        if (usedConnections.removeElement(aConn)) {
100
101
          freeConnections.addElement(aConn);
          while (freeConnections.size() > maxIdleConnections) {
102
           int lastOne = freeConnections.size() - 1;
103
104
            Connection conn = (Connection)
105
              freeConnections.elementAt(lastOne);
            try { conn.close(); } catch (SQLException ex) { }
106
107
            freeConnections.removeElementAt(lastOne);
108
           }
109
          notify();
110
         }
111
       }
112
113
      private String jdbcURL;
114
      private String username;
115
      private String password;
116
      private int preconnectCount;
117
      private int connectCount;
118
      private int maxIdleConnections;
119
      private int maxConnections;
120
      private Vector<Connection> usedConnections;
121
      private Vector<Connection> freeConnections;
122
123 }
```

# ObavezeDAO.java

```
package net.etfbl.lab.dao;
3⊕ import java.sql.Connection; ...
    public class ObavezeDAO {
           private static final String INSERT = "INSERT INTO planer_obaveza.obaveza (opis, datum, kategorija, adresaKorisnika) VALUES (?, ?, ?)"; private static final String SELECT = "SELECT * FROM planer_obaveza.obaveza WHERE datum>? order by datum"; private static final String DELETE = "DELETE FROM planer_obaveza.obaveza WHERE id=?";
           public static boolean unesiObavezu(Obaveza obaveza) []
Connection conn = null;
                   try {
                         conn = ConnectionPool.getConnectionPool().checkOut();
PreparedStatement stmt = conn.prepareStatement(INSERT);
9 1 2 3 4 5 6 7 8 9 0 1 2 3
                         Preparedstatement stmt = conn.preparedstatement(INSEKI);
stmt.setString(1, obaveza.getOpis());
stmt.setDate(2, new Date(obaveza.getDatum().getTime()));
stmt.setString(3, obaveza.getKategorija());
stmt.setString(4, obaveza.getAdresa());
                         stmt.executeUpdate();
stmt.close();
                  return true;
} catch (Exception ex) {
                          ex.printStackTrace(System.err);
                          return false;
                         ConnectionPool.getConnectionPool().checkIn(conn);
14
15
16
17⊖
18
           public static ArrayList<Obaveza> ocitajObavezePoDatumu(String datum) {
    ArrayList<Obaveza> obaveze = new ArrayList<>();
                   Connection conn = null;
                         (
conn = ConnectionPool.getConnectionPool().checkOut();
PreparedStatement stmt = conn.prepareStatement(SELECT);
stmt.setObject(1, datum);
ResultSet rs = stmt.executeQuery();
                         while (rs.next()) {
   obaveze.add(
                                               new Obaveza(rs.getInt(1), rs.getString(2), rs.getDate(3), rs.getString(4), rs.getString(5)));
                          rs.close();
stmt.close();
                   } catch (Exception ex) {
   ex.printStackTrace(System.err);
                   } finally {
                          ConnectionPool.getConnectionPool().checkIn(conn);
                   return obaveze:
```

```
public static ArrayList<Obaveza> ocitajObavezePoDatumu(String datum) {
            ArrayList<Obaveza> obaveze = new ArrayList<>();
38
39
40
41
42
43
44
            Connection conn = null;
            try {
                conn = ConnectionPool.getConnectionPool().checkOut();
                PreparedStatement stmt = conn.prepareStatement(SELECT);
                stmt.setObject(1, datum);
                ResultSet rs = stmt.executeQuery();
45
46
47
48
49
50
51
52
                while (rs.next()) {
                    obaveze.add(
                             new Obaveza(rs.getInt(1), rs.getString(2), rs.getDate(3), rs.getString(4), rs.getString(5)));
                rs.close();
                stmt.close();
            } catch (Exception ex) {
                ex.printStackTrace(System.err);
53
54
            } finally {
                ConnectionPool.getConnectionPool().checkIn(conn);
55
56
57
            return obaveze;
       }
58
        public static void obrisiObavezu(int id) {
59⊝
60
            Connection conn = null;
61
            try {
62
                conn = ConnectionPool.getConnectionPool().checkOut();
                PreparedStatement stmt = conn.prepareStatement(DELETE);
63
64
                stmt.setInt(1, id);
65
                stmt.executeUpdate();
66
                stmt.close();
67
            } catch (Exception ex) {
                ex.printStackTrace(System.err);
68
            } finally {
69
70
                ConnectionPool.getConnectionPool().checkIn(conn);
71
            }
72
        }
73 }
```

### ObavezeBean.java

```
package net.etfbl.lab.beans;
3⊕ import java.io.Serializable; ...
13
14 @ManagedBean(name = "obavezaBean")
15 @SessionScoped
16 public class ObavezaBean implements Serializable {
17
18⊖
       public ObavezaBean() {
19
20
21
       private static final long serialVersionUID = -8606687324815905107L;
22
       private ArrayList<Obaveza> obaveze = new ArrayList<Obaveza>();
23
       private Obaveza obaveza = new Obaveza();
24
       private String datum = new String();
25
       private String poruka;
26
27⊝
       public ArrayList<Obaveza> getObaveze() {
28
           return obaveze;
29
30
31⊖
       public void setObaveze(ArrayList<Obaveza> obaveze) {
32
           this.obaveze = obaveze;
33
34
35⊜
       public Obaveza getObaveza() {
36
           return obaveza;
37
38
39⊕
       public void setObaveza(Obaveza obaveza) {
40
           this.obaveza = obaveza;
41
42
       public String getDatum() {
43⊖
44
           return datum;
45
46
       public void setDatum(String datum) {
47⊝
48
           this.datum = datum;
49
50
51⊝
       public String getPoruka() {
52
           return poruka;
53
54
       public void setPoruka(String poruka) {
55⊜
56
           this.poruka = poruka;
57
       }
```

```
public String ocitajObavezeIzBaze() {
  obaveze = ObavezeDAO.ocitajObavezePoDatumu(datum);
  return "obaveze.xhtml?faces-redirect=true";
   61
62
   63
64⊜
                                              public String upisiObavezu() {
   65
66
                                                                     boolean uspjeh = ObavezeDAO.unesiObavezu(obaveza);
                                                                     if (uspjeh) {
   67
68
                                                                                           this.obaveza = new Obaveza();
this.poruka = "Unos u bazu je uspjesno obavljen!";
  69
70
71
72
73<sup>©</sup>
74
                                                                     return null;
                                             }
                                            public String obrisiObavezu() {
   Map<String, String> reqMap = FacesContext.getCurrentInstance().getExternalContext().getRequestParameterMap();
   if (reqMap.containsKey("id")) {
     int z = Integer.parseInt(reqMap.get("id"));
     for (Obaveza o : obaveze) {
        if (o cotTd() = real d() = real d
   75
76
                                                                                                                  if (o.getId() == z) {
                                                                                                                                       obaveze.remove(o);
    80
                                                                                                                                       ObavezeDAO.obrisiObavezu(z);
   81
                                                                                                                                       break;
   82
83
                                                                                           }
84
85
86
87
88 }
                                                                     return null;
```