index.jsp

menu.jsp

META-INF\MANIFEST.MF

prime.xhtml

test.xhtml

WEB-INF\faces-config.xml

WEB-INF\lib\javax.faces-2.2.4.jar

WEB-INF\lib\primefaces-6.2.jar

WEB-INF\pages\test.xhtml

WEB-INF\template\footer.xhtml

WEB-INF\template\header.xhtml

WEB-INF\template\template.xhtml

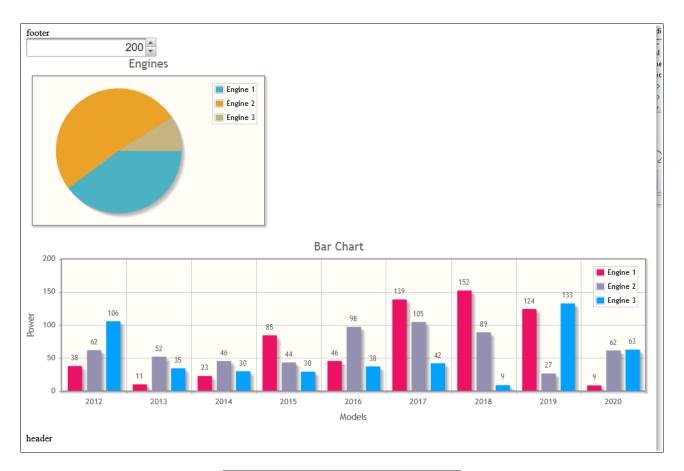
WEB-INF\web.xm1

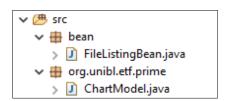
Пребројано је 13 ставки.

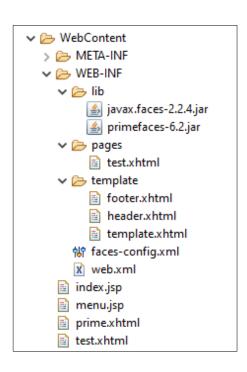
BOOKS APP MENU

Prime Test

Menu Index







web.xml

```
1 <?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" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee" xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaeee="http://xmlns.jcp.org/xml/ns/javaeee="http://xm
               <display-name>048_IP_Predavanja_ETF_JSF_PRIME</display-name>
   40
              <welcome-file-list>
                   <welcome-file>index.html</welcome-file>
                   <welcome-file>index.htm</welcome-file>
                   <welcome-file>index.jsp</welcome-file>
                    <welcome-file>default.html</welcome-file>
                    <welcome-file>default.htm</welcome-file>
 10
                    <welcome-file>default.jsp</welcome-file>
              </welcome-file-list>
 11
12⊝
            <servlet>
                   <servlet-name>Faces Servlet
                    <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
15
                   <load-on-startup>1</load-on-startup>
             </servlet>
 16
17⊝
           <servlet-mapping>
 18
                 <servlet-name>Faces Servlet</servlet-name>
                  <url-pattern>/faces/*</url-pattern>
 20
             </servlet-mapping>
 21⊖ <context-param>
                 <description>State saving method: 'client' or 'server' (=default). See JSF Specification 2.5.2</description>
22
                  <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
 23
                   <param-value>client</param-value>
25
             </context-param>
26⊖ <context-param>
                   <param-name>javax.servlet.jsp.jstl.fmt.localizationContext</param-name>
27
                    <param-value>resources.application</param-value>
28
                </context-param>
30⊝ ⟨listener>
31
                    configureListener</listener-class>
               </listener>
32
33 </web-app>
```

menu.jsp

```
1  page language="java" contentType="text/html; charset=UTF-8" pageEncoding="UTF-8"%)
2 <!DOCTYPE html>
3⊖ <html>
40
       <head>
5
           <meta charset="UTF-8">
           <title>Books Application API Menu</title>
6
7
       </head>
8<sup>©</sup>
       <body>
           <h3>BOOKS APP MENU</h3>
9
10⊝
           <d1>
                <dd><a href='${pageContext.request.contextPath}/faces/prime.xhtml'>Prime</a></dd>
11
12
                <dd><a href='${pageContext.request.contextPath}/faces/test.xhtml'>Test</a></dd>
13
           </dl>
14
           <br>
15⊖
           <d1>
16
               <dd><a href='${pageContext.request.contextPath}/menu.jsp'>Menu</a></dd>
17
               <dd><a href='${pageContext.request.contextPath}/index.jsp'>Index</a></dd>
18
            </dl>
19
       </body>
20 </html>
```

prime.xhtml

```
10 <html xmlns="http://www.w3.org/1999/xhtml"
       xmlns:h="http://java.sun.com/jsf/html"
        xmlns:f="http://java.sun.com/jsf/core"
 3
       xmlns:p="http://primefaces.org/ui">
4
 5
 6⊖
       <h:head>
7
       </h:head>
8
9⊝
       <h:body>
10
            <p:spinner />
11
       </h:body>
12 </html>
```

test.xhtml

```
1⊖ <html xmlns="http://www.w3.org/1999/xhtml"
       xmlns:ui="http://xmlns.jcp.org/jsf/facelets"
 2
       xmlns:h="http://xmlns.jcp.org/jsf/html"
 3
       xmlns:f="http://xmlns.jcp.org/jsf/core">
 4
 5
 6⊖ <h:head>
 7 </h:head>
8⊖ <h:body>
       <ui:composition template="/WEB-INF/template/template.xhtml">
9⊝
10⊝
           <ui:define name="header">
11
                <ui:include src="/WEB-INF/template/header.xhtml"></ui:include>
           </ui:define>
12
           <ui:define name="content">
13⊖
                <ui:include src="/WEB-INF/pages/test.xhtml"></ui:include>
14
15
           </ui:define>
           <ui:define name="footer">
16⊖
17
                <ui:include src="/WEB-INF/template/footer.xhtml"></ui:include>
18
           </ui:define>
19
       </ui:composition>
20 </h:body>
21 </html>
```

template.xhtml

```
1⊝ <html xmlns="http://www.w3.org/1999/xhtml"
       xmlns:ui="http://java.sun.com/jsf/facelets"
       xmlns:h="http://java.sun.com/jsf/html"
4
       xmlns:f="http://java.sun.com/jsf/core"
       xmlns:p="http://primefaces.org/ui"
6⊖ <h:head>
     <title><ui:insert name="title">Default title</ui:insert></title>
8 </h:head>
10⊖ <body>
12⊖ <div id="footer">
13⊖ <ui:insert name="footer">
14
           <!-- include your header file or uncomment the include below and create footer.xhtml in this directory -->
           <ui:include src="footer.xhtml"/>
15
     </ui:insert>
16
17 </div>
18
19
20⊖ <div id="content">
21⊖ <ui:insert name="content">
22
           Content area. See comments below this line in the source.
           <!-- include your content file or uncomment the include below and create content.xhtml in this directory -->
23
24
           <!-- <div> -->
25
           <!-- <ui:include src="content.xhtml"/> -->
           <!-- </div> -->
26
27
     </ui:insert>
28 </div>
29
30⊖ <div id="header">
31⊝
     <ui:insert name="header">
32
           <!-- include your header file or uncomment the include below and create header.xhtml in this directory -->
           <ui:include src="header.xhtml"/>
33
34
       </ui:insert>
35 </div>
36
37 </body>
38
39 </html>
40
```

footer.xhtml

header.xhtml

```
1⊖ <a href="http://www.w3.org/1999/xhtml" xmlns:ui="http://java.sun.com/jsf/facelets" xmlns:h="http://java.sun.com/jsf/html" xmlns:f="http://java.sun.com/jsf/core" <a href="http://java.sun.com/jsf/core" vali:composition">header</a> <a href="http://java.sun.com/jsf/core" vali:composition">http://java.sun.com/jsf/core</a> <a href="http://java.sun.com/jsf/core" vali:composition">http://java.sun.co
```

pages/test.html

```
1⊖ <html xmlns="http://www.w3.org/1999/xhtml"</p>
        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
        xmlns:p="http://primefaces.org/ui"
6⊖ <ui:composition>
7⊝
       <h:form>
            <p:spinner id="spinner" value="#{chartModel.max}">
80
9
                <f:ajax execute="@this" render="bar"></f:ajax>
10
            </p:spinner>
            <p:poll interval="3" update="pie" />
11
            <p:chart id="pie" type="pie" model="#{chartModel.livePieModel}"</pre>
12
                style="width:400px;height:300px" />
13
            <p:poll interval="3" update="bar" />
14
            <p:chart id="bar" type="bar" model="#{chartModel.liveBarModel}"</pre>
15⊜
16
                style="height:300px"></p:chart>
17
        </h:form>
18 </ui:composition>
19 </html>
```

ChartModel.java

```
package org.unibl.etf.prime;
 3⊖ import java.io.Serializable;
 5 import javax.annotation.PostConstruct;
6 import javax.faces.bean.ManagedBean;
8 import org.primefaces.model.chart.Axis;
9 import org.primefaces.model.chart.AxisType;
10 import org.primefaces.model.chart.BarChartModel;
11 import org.primefaces.model.chart.ChartSeries;
12 import org.primefaces.model.chart.PieChartModel;
13
14 @ManagedBean
15 public class ChartModel implements Serializable {
16
17⊝
18
19
       private static final long serialVersionUID = 1L;
20
       private PieChartModel livePieModel;
21
22
       private BarChartModel liveBarModel;
23
       private Integer max = 200;
24
25⊖
       @PostConstruct
       public void init() {
26
27
           initLivePieModel();
28
           initLiveBarModel();
29
```

```
public PieChartModel getLivePieModel() {
    int random1 = (int) (Math.random() * 1000);
    int random2 = (int) (Math.random() * 1000);
    int random3 = (int) (Math.random() * 1000);

    livePieModel.getData().put("Engine 1", random1);
    livePieModel.getData().put("Engine 2", random2);
    livePieModel.getData().put("Engine 3", random3);

    livePieModel.setTitle("Engines");
    livePieModel.setLegendPosition("ne");

    return livePieModel;
}
```

```
private BarChartModel initLiveBarModel() {
    liveBarModel = new BarChartModel();
    return liveBarModel;
}

private void initLivePieModel() {
    livePieModel = new PieChartModel();

    livePieModel.set("Engine 1", 54);
    livePieModel.set("Engine 2", 32);
    livePieModel.set("Engine 3", 35);
}

public Integer getMax() {
    return max;
}

public void setMax(Integer max) {
    this.max = max;
}
```

```
46<sub>9</sub>
          public BarChartModel getLiveBarModel() {
 47
 48
               ChartSeries engine1 = new ChartSeries();
               engine1.setLabel("Engine 1");
 49
               engine1.set("2012", 100 * Math.random());
engine1.set("2013", 44 * Math.random());
 50
 51
              engine1.set("2014", 150 * Math.random());
engine1.set("2015", 90 * Math.random());
engine1.set("2016", 80 * Math.random());
 52
 53
 54
              engine1.set("2017", 160 * Math.random());
engine1.set("2018", 200 * Math.random());
engine1.set("2019", 180 * Math.random());
engine1.set("2020", 200 * Math.random());
 55
 56
 57
 58
 59
 60
               ChartSeries engine2 = new ChartSeries();
 61
               engine2.setLabel("Engine 2");
               engine2.set("2012", 135 * Math.random());
engine2.set("2013", 120 * Math.random());
 62
 63
               engine2.set("2014", 52 * Math.random());
 64
               engine2.set("2015", 60 * Math.random());
 65
               engine2.set("2016", 110 * Math.random());
 66
               engine2.set("2017", 135 * Math.random());
 67
               engine2.set("2018", 120 * Math.random());
 68
               engine2.set("2019", 180 * Math.random());
 69
               engine2.set("2020", 200 * Math.random());
 70
 71
72
               ChartSeries engine3 = new ChartSeries();
73
               engine3.setLabel("Engine 3");
74
               engine3.set("2012", 145 * Math.random());
               engine3.set("2013", 160 * Math.random());
75
               engine3.set("2014", 70 * Math.random());
76
               engine3.set("2015", 30 * Math.random());
 77
               engine3.set("2016", 130 * Math.random());
78
               engine3.set("2017", 125 * Math.random());
 79
               engine3.set("2018", 110 * Math.random());
 80
               engine3.set("2019", 180 * Math.random());
 81
               engine3.set("2020", 200 * Math.random());
 82
 83
               liveBarModel.addSeries(engine1);
 84
 85
               liveBarModel.addSeries(engine2);
               liveBarModel.addSeries(engine3);
 86
 87
               liveBarModel.setTitle("Bar Chart");
 88
               liveBarModel.setLegendPosition("ne");
 89
 90
               Axis xAxis = liveBarModel.getAxis(AxisType.X);
 91
               xAxis.setLabel("Models");
 92
 93
               Axis yAxis = liveBarModel.getAxis(AxisType.Y);
 94
               yAxis.setLabel("Power");
 95
               yAxis.setMin(0);
 96
               vAxis.setMax(max);
 97
               liveBarModel.setShowPointLabels(true);
               liveBarModel.setSeriesColors("ed1065, 9490b2, 00a1ff");
 98
 99
               return liveBarModel;
100
          }
```