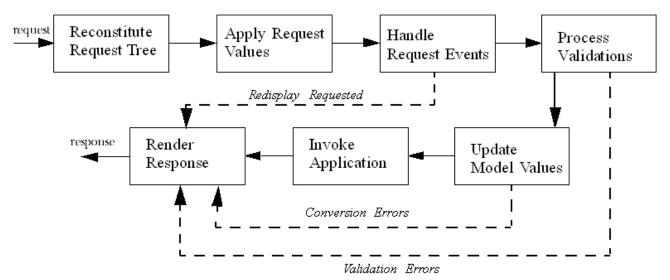


1. Tujuan

- Mempersiapkan aplikasi JSF menggunakan Netbeans
- Membuat aplikasi Guest Book sederhana

2. Latar Belakang



JSF LifeCycle





3. Percobaan

Percobaan 1: Menyiapkan aplikasi project JSF



Tujuan section ini adalah membuat project JSF.

Download JSF Framework

JSF Framework bisa didownload di http://java.sun.com/jsf. Dalam distribusi JSF terdiri dari JSF library dalam bentuk jar (jsf-impl.jar, jsf-api.jar), dokumentasi dan javadocs, dan beberapa contoh applikasi.

Sebagai alternatif anda bisa menggunakan MyFaces (http://myfaces.apache.org), project open source implementasi JSF pertama.

Membuat project dengan Netbeans IDE

Langah-langkahnya:

1. Buat project web baru dengan nama jeni_jsf



Tip

File → New Project, pilih category Web → Web Application, klik Next Ketikkan nama project, klik Next

Pilih Framework Java Server Faces, lakukan konfigurasi secukupnya. Klik Finish

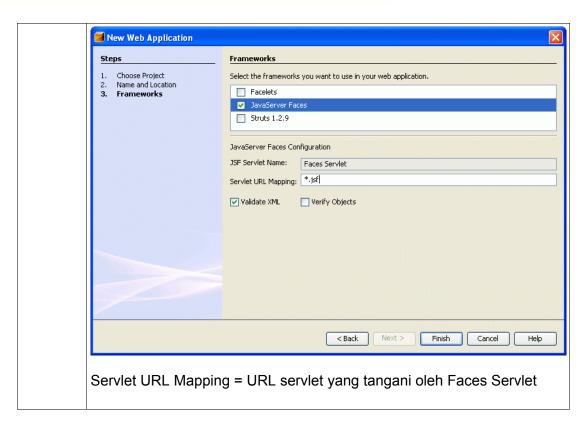


Tip

Konfigurasi pada Java Server Faces: Dengan Netbeans IDE:







Secara Manual:

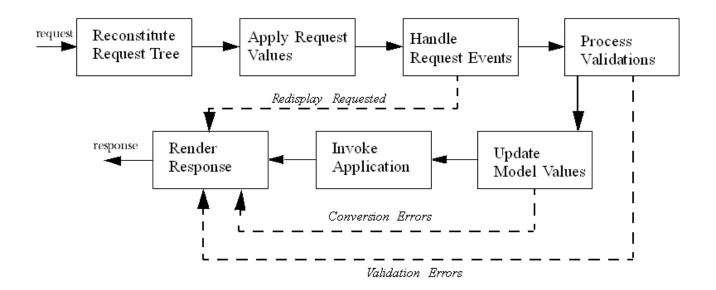
- Menambahkan librari jsf dan dependencinya (jsf-impl.jar, jsf-api.jar) ke dalam folder WEB-INF/lib (CLASSPATH aplikasi)
 - Membuat file web.xml dalam folder WEB-INF dan menambahkan kode berikut: <?xml version="1.0" encoding="UTF-8"?> <web-app version="2.4" xmlns="http://java.sun.com/xml/ns/j2ee"
 - xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 - xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd">
 - <context-param>
 - <param-name>com.sun.faces.verifyObjects</param-name>
 - <param-value>false</param-value>
 - </context-param>
 - <context-param>
 - <param-name>com.sun.faces.validateXml</param-name>
 - <param-value>true</param-value>
 - </context-param>
 - <context-param>
 - <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
 - <param-value>client/param-value>
 - </context-param>
 - <servlet>
 - <servlet-name>Faces Servlet/servlet-name>
 - <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>





```
<load-on-startup>1</load-on-startup>
     </servlet>
  <servlet-mapping>
    <servlet-name>Faces Servlet/servlet-name>
     <url-pattern>*.jsf</url-pattern>
  </servlet-mapping>
  <session-config>
     <session-timeout>
       30
    </session-timeout>
  </session-config>
  <welcome-file-list>
    <welcome-file>
       index.jsp
     </welcome-file>
  </welcome-file-list>
</web-app>
```

JSF Lifecycle





Percobaan 2: Membuat aplikasi Guest Book sederhana



Tujuan section ini adalah membuat aplikasi Guestbook sederhana.

Langkah-langkahnya:

- Buat package jeni3.jsf.guestbook
- Buat class Backing Bean (JavaBeans) dengan nama GuestBookBean berisi deklarasi field2 form, method get dan set, dan method yang dipakai untuk pemrosesan data. Berikut ini kodenya:

```
package jeni3.jsf.guestbook;
  @author mee andto@yahoo.com
* @version 0.5
public class GuestBookBean {
  private String name;
  private String sex;
  private String email;
  private String birthdate;
  private String message;
  public String addGuest(){
        return "success";
  }
  public String getName() {
     return name;
  public void setName(String name) {
     this.name = name;
  //Add more here getter and setter for each private variable
```

Tambahkan getter dan setter.

Definisikan bean ini dalam file faces-config.xml

```
<faces-config>
<managed-bean>
<description/>
<managed-bean-name>guestBook</managed-bean-name>
```





```
<managed-bean-class>jeni3.jsf.guestbook.GuestBookBean</managed-bean-class>
<managed-bean-scope>request</managed-bean-scope>
</managed-bean>
<navigation-rule>
<description>

</description>
<from-view-id>/view/guestBookForm.jsp</from-view-id>
<navigation-case>
<from-action>#{guestBook.addGuest}</from-action>
<from-outcome>success</from-outcome>
<to-view-id>/view/guestBookView.jsp</to-view-id>
</navigation-case>
</navigation-rule>
</faces-config>
```

 Buka file index.jsp dan tambahkan link untuk form guestbook, seperti kode berikut:

```
<br/><br/><a href="./view/guestBookForm.jsf">Isi Buku Tamu</a>
```

- Action guestBookForm.jsf akan menampilkan form isian GuestBook, dalam kasus ini belum membutuhkan bean dan NavigationRule. JSF akan menampilkan file JSP yang memiliki nama file sesuai dengan nama action tersebut.
- Pada Web Pages, buat folder view
- Buat file JSP dengan nama guestBookForm.jsp dan letakkan dalam folder view/. Berikut skrip dalam file guestBookForm.jsp:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"</p>
 "http://www.w3.org/TR/html4/loose.dtd">
< @ taglib prefix="f" uri="http://java.sun.com/jsf/core" %>
<%@ taglib prefix="h" uri="http://java.sun.com/jsf/html" %>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>GuestBook Form</title>
  </head>
  <body>
  <h1>GuestBook Form</h1>
  <f:view>
  <h:form id="guestBookForm">
  <h:panelGrid columns="2" bgcolor="#e6edfd">
        <h:outputLabel for="name">
       <h:outputText value="Name"/>
        </h:outputLabel>
        <h:inputText id="name" value="#{guestBook.name}"/>
        <h:outputLabel for="sex">
       <h:outputText value="Sex"/>
```





```
</h:outputLabel>
        <h:selectOneMenu id="sex" value="#{guestBook.sex}" title="select one option">
       <f:selectItem id="s0" itemLabel="-select one-" itemValue="" />
                <f:selectItem id="s1" itemLabel="Male" itemValue="male" />
           <f:selectItem id="s2" itemLabel="Female" itemValue="female" />
        </h:selectOneMenu>
        <h:outputLabel for="email">
       <h:outputText value="Email"/>
        </h:outputLabel>
        <h:inputText id="email" value="#{guestBook.email}"/>
        <h:outputLabel for="birthdate">
       <h:outputText value="Birthdate"/>
        </h:outputLabel>
        <h:inputText id="birthdate" value="#{guestBook.birthdate}"/>
        <h:outputLabel for="message">
       <h:outputText value="Message"/>
        </h:outputLabel>
        <h:inputTextarea id="message" value="#{guestBook.message}"/>
        <h:commandButton type="reset" value="Reset"/>
        <h:commandButton type="submit" action="#{guestBook.addGuest}" value="Add"/>
  </h:panelGrid>
  </h:form>
  </f:view>
  </body>
</html>
```

 Masih dalam folder view, buat file JSP untuk menampilkan data Guest. Nama file guestBookView.jsp.

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
 "http://www.w3.org/TR/html4/loose.dtd">
<%@ taglib prefix="f" uri="http://java.sun.com/jsf/core" %>
<%@ taglib prefix="h" uri="http://java.sun.com/jsf/html" %>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>GuestBook View</title>
  </head>
  <body>
  <f:view>
  <h:panelGrid columns="2" bgcolor="#e6edfd">
         <f:facet name="header">
       <h:outputText style="font-size:14px" value="Your's Datas"/>
         </f:facet>
        <h:outputLabel for="name">
       <h:outputText value="Name"/>
        </h:outputLabel>
        <h:outputText id="name" value=": #{guestBook.name}"/>
```





```
<h:outputLabel for="sex">
        <h:outputText value="Sex"/>
        </h:outputLabel>
        <h:outputText id="sex" value=": #{guestBook.sex}"/>
        <h:outputLabel for="email">
        <h:outputText value="Email"/>
        </h:outputLabel>
        <h:outputText id="email" value=": #{guestBook.email}"/>
        <h:outputLabel for="birtDate">
        <h:outputText value="BirthDate"/>
        </h:outputLabel>
        <h:outputText id="birthDate" value=": #{guestBook.birthDate}"/>
        <h:outputLabel for="message">
        <h:outputText value="Message"/>
        </h:outputLabel>
        <h:outputText id="message" value=": #{guestBook.message}"/>
  </h:panelGrid>
  </f:view>
  </body>
</html>
```

Run- Run Main Project

