

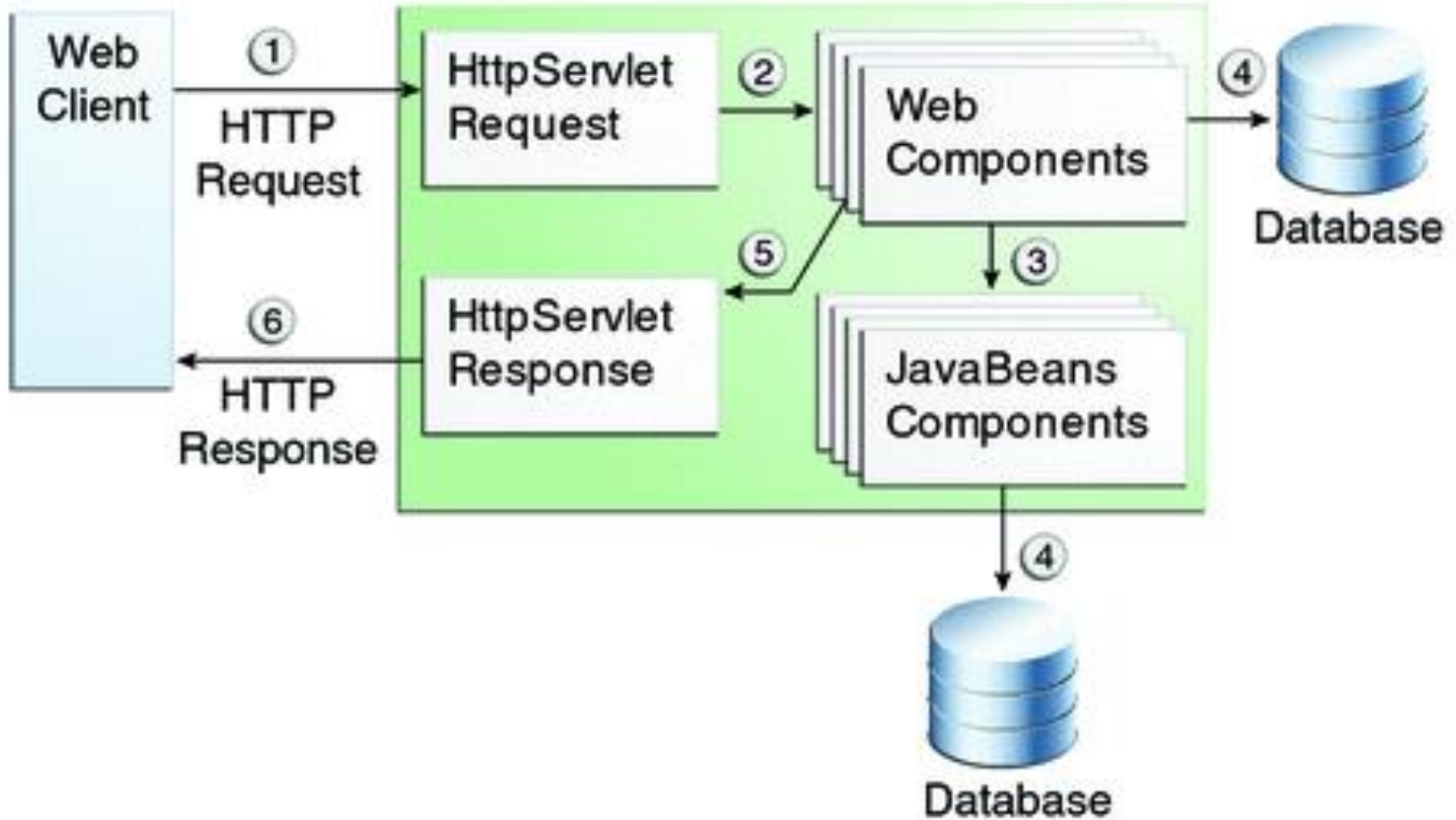
# **Przykłady tworzenia aplikacji komponentowych w technologii JavaServer Faces 2.1**

**na podstawie**

**<http://docs.oracle.com/javaee/6/tutorial/doc/>**

**Przykłady na podstawie zadań lab. z przedmiotu  
Technologie internetowe**

# Obsługa żądania w aplikacji internetowej JAVA

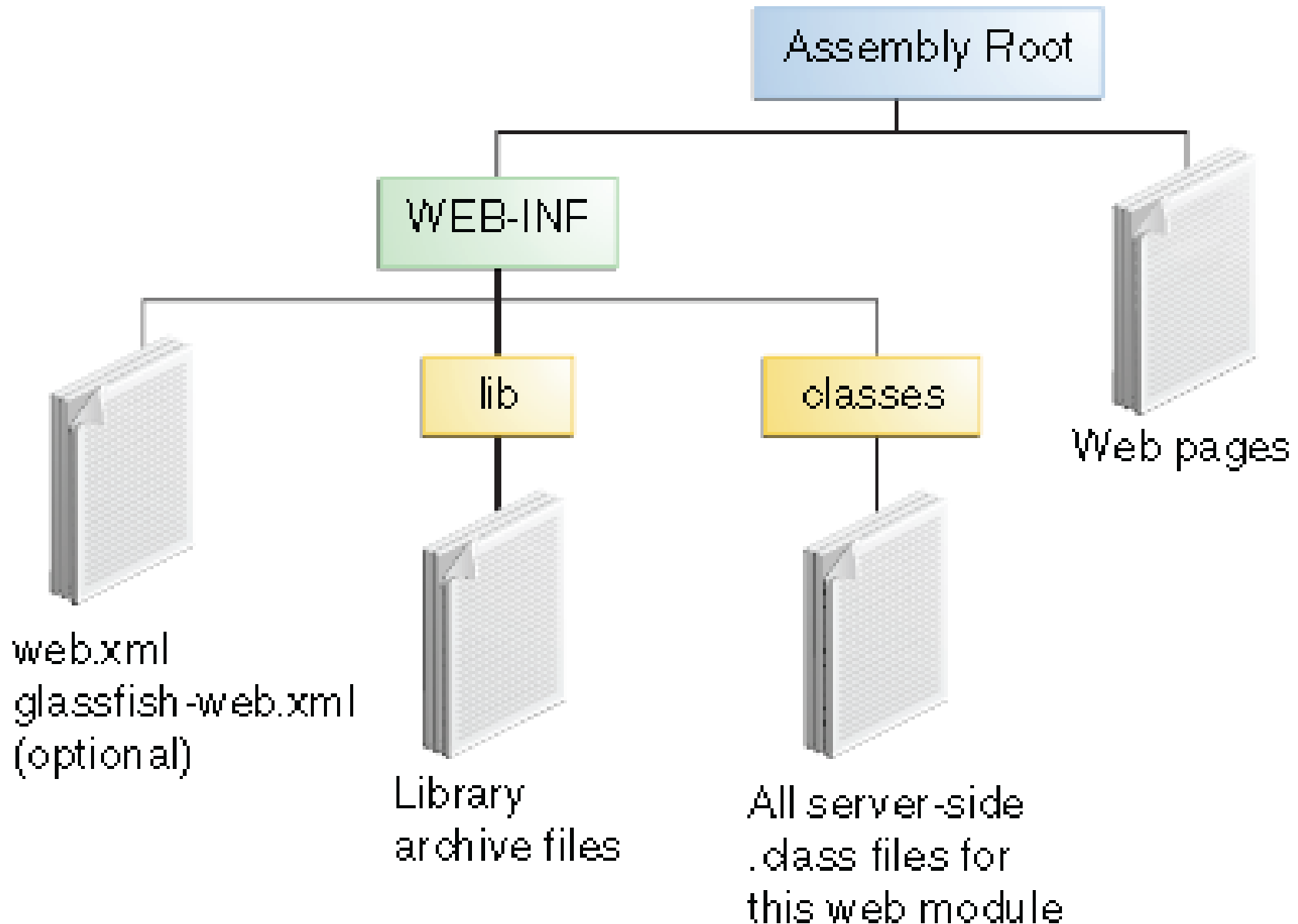


# Cykl życia aplikacji internetowej Java EE

Proces tworzenia, wdrażania i wykonywania aplikacji internetowej:

1. Opracowanie kodu komponentu WWW.
2. Rozwijanie deskryptora wdrożenia aplikacji internetowej, jeśli to konieczne (web.xml).
3. Kompilacja komponentów aplikacji internetowej i klas pomocniczych.
4. Opcjonalnie: spakowanie aplikacji w pakiet umożliwiający uruchomienie aplikacji internetowej.
5. Połączenie aplikacji z kontenerem internetowym (deploy).
6. Uruchomienie aplikacji internetowej - dostęp do adresu URL, do którego odwołuje się aplikacja internetowa.

# Struktura modułu internetowego



# Co zawiera aplikacja Java Server Faces?

**Web pages:** pliki xhtml, css, js

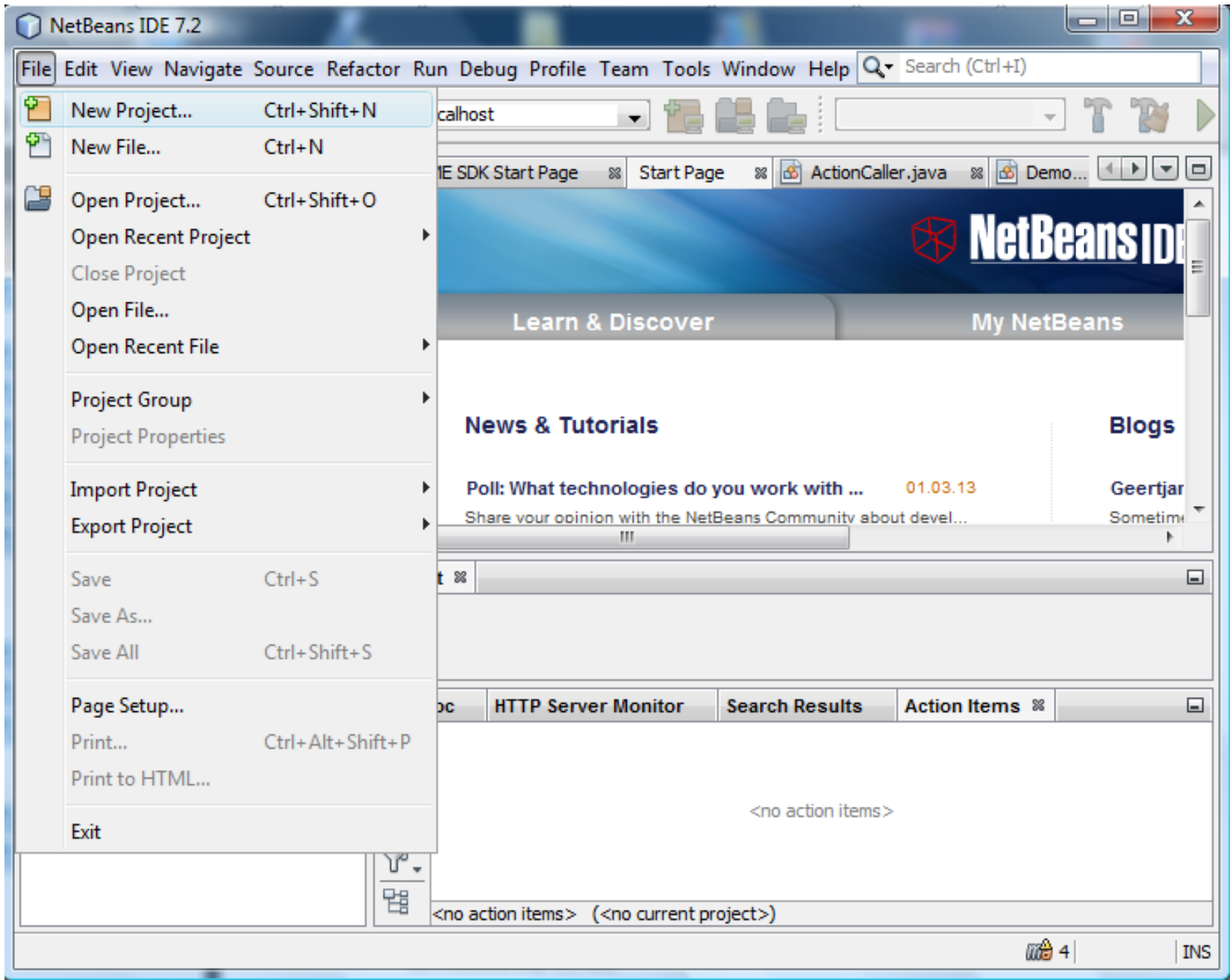
**WEB-INF/classes:** katalog, który zawiera po stronie serwera klasy: serwlety, pliki komponentów EJB, klasy użytkowe i komponenty JavaBeans

**WEB-INF/lib:** katalog, który zawiera pliki JAR z komponentami EJB oraz archiwa bibliotek używanych przez klasy aplikacji

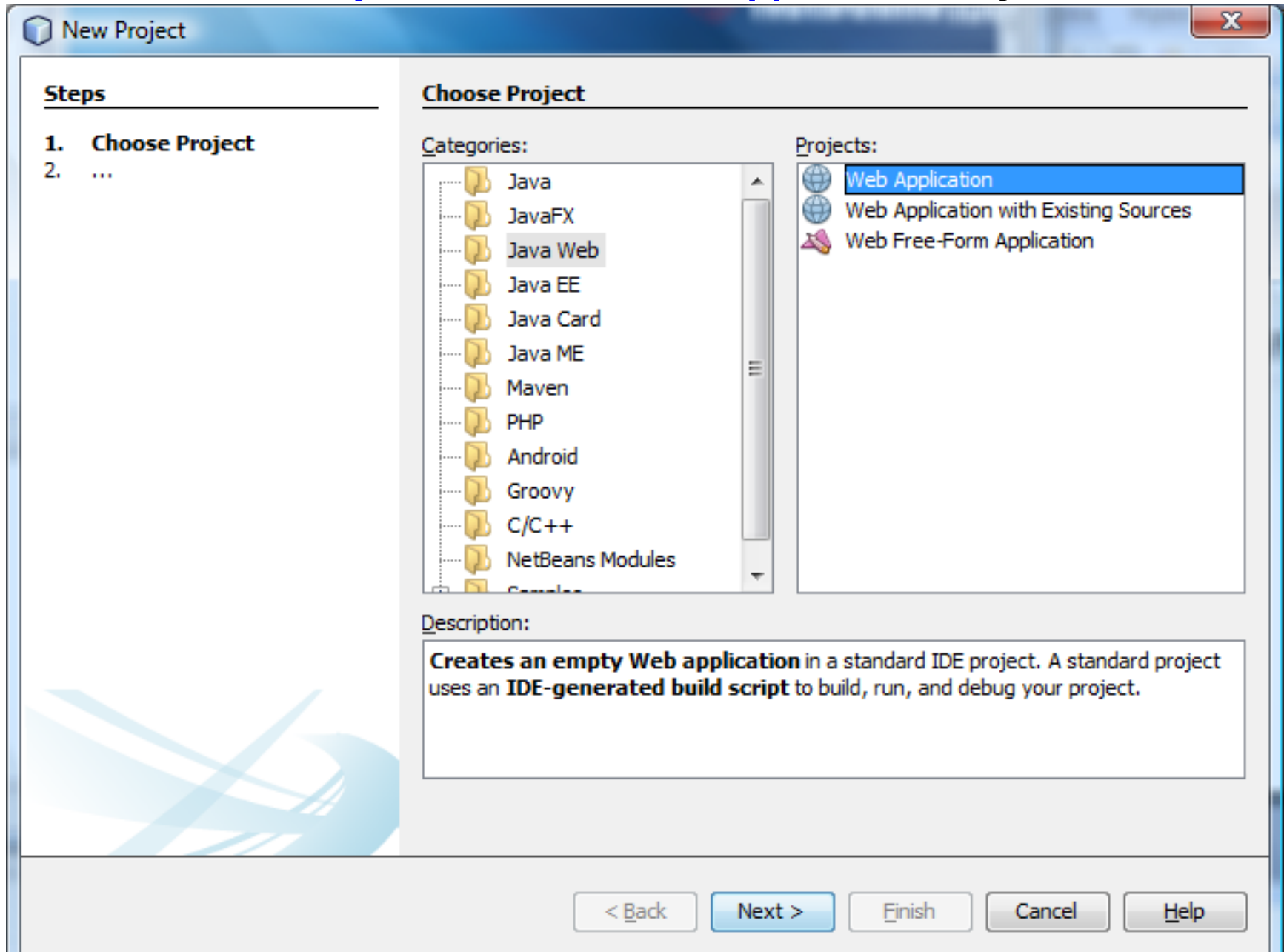
**WEB-INF:** deskryptory wdrażania - web.xml i glassfish-web.xml (pliki opisujące instalację aplikacji)

# **Przykład1 aplikacji typu JavaServer Faces**

# Tworzenie projektu typu Java Web



# Tworzenie projektu typu Java Web: File/New Project/Java Web/Web Application i wybór Next





# Nadanie nazwy projektu Witaj (**Project Name**) i wybór katalogu pliku (**Project Location**) i wybór **Next**

New Web Application

### Steps

1. Choose Project
- 2. Name and Location**
3. Server and Settings
4. Frameworks

### Name and Location

Project Name:

Project Location:

Project Folder:

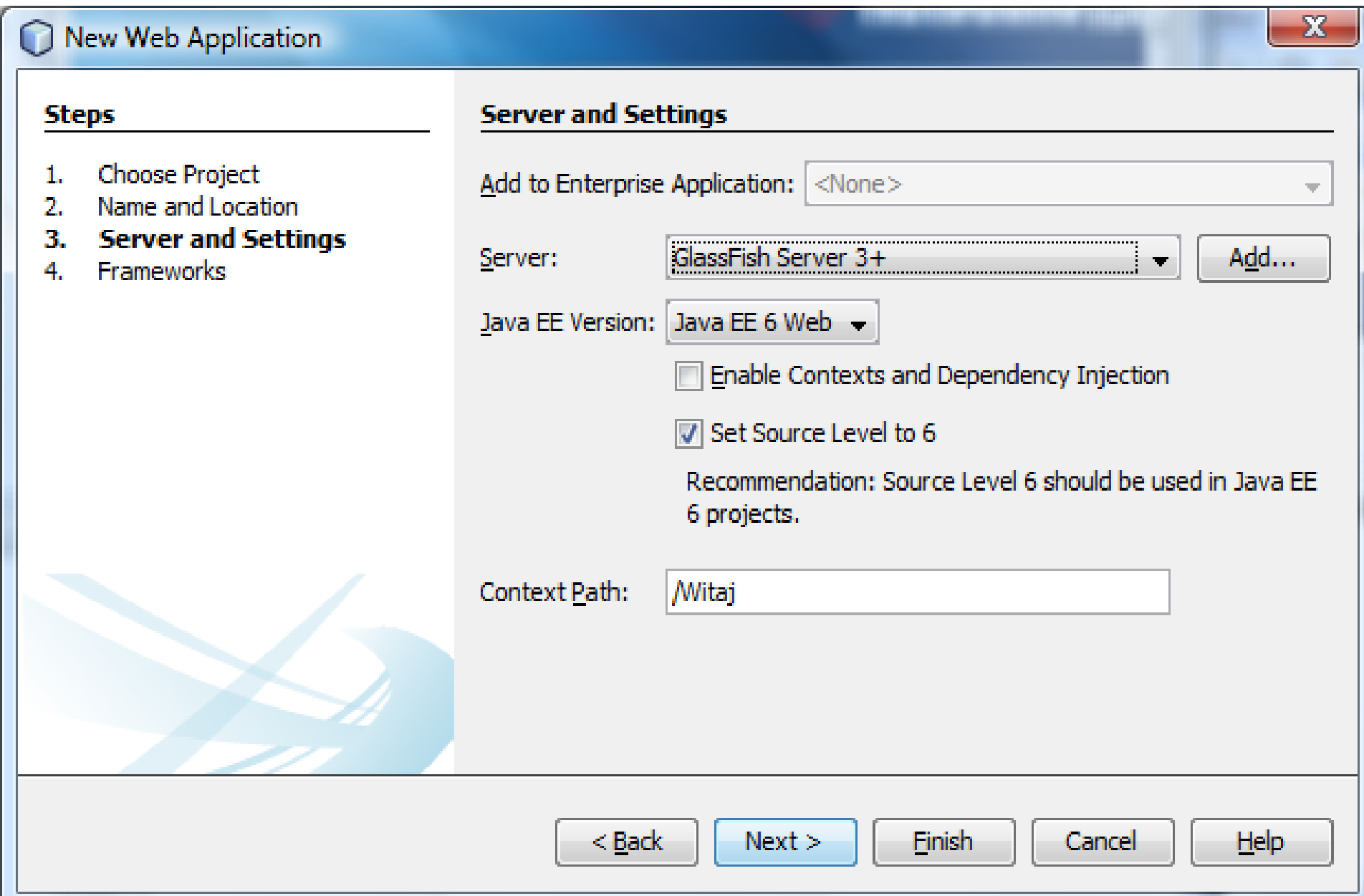
Use Dedicated Folder for Storing Libraries

Libraries Folder:

Different users and projects can share the same compilation libraries (see Help for details).

< Back   Next >   Finish   Cancel   Help

# Wybór serwera aplikacji (**Server**), wersji platformy Javy (**Java EE Version**) i wybór **Next**



The screenshot shows a 'New Web Application' wizard window. The title bar reads 'New Web Application' with a close button. The window is divided into two main sections: 'Steps' on the left and 'Server and Settings' on the right. The 'Steps' section lists four steps: 1. Choose Project, 2. Name and Location, 3. **Server and Settings** (highlighted), and 4. Frameworks. The 'Server and Settings' section contains several configuration options: 'Add to Enterprise Application' is set to '<None>'; 'Server' is set to 'GlassFish Server 3+' with an 'Add...' button; 'Java EE Version' is set to 'Java EE 6 Web'; there are two checkboxes: 'Enable Contexts and Dependency Injection' (unchecked) and 'Set Source Level to 6' (checked); a recommendation text states 'Recommendation: Source Level 6 should be used in Java EE 6 projects.'; and 'Context Path' is set to '/Witaj'. At the bottom, there are five buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

**Steps**

1. Choose Project
2. Name and Location
3. **Server and Settings**
4. Frameworks

**Server and Settings**

Add to Enterprise Application: <None>

Server: GlassFish Server 3+ Add...

Java EE Version: Java EE 6 Web

Enable Contexts and Dependency Injection

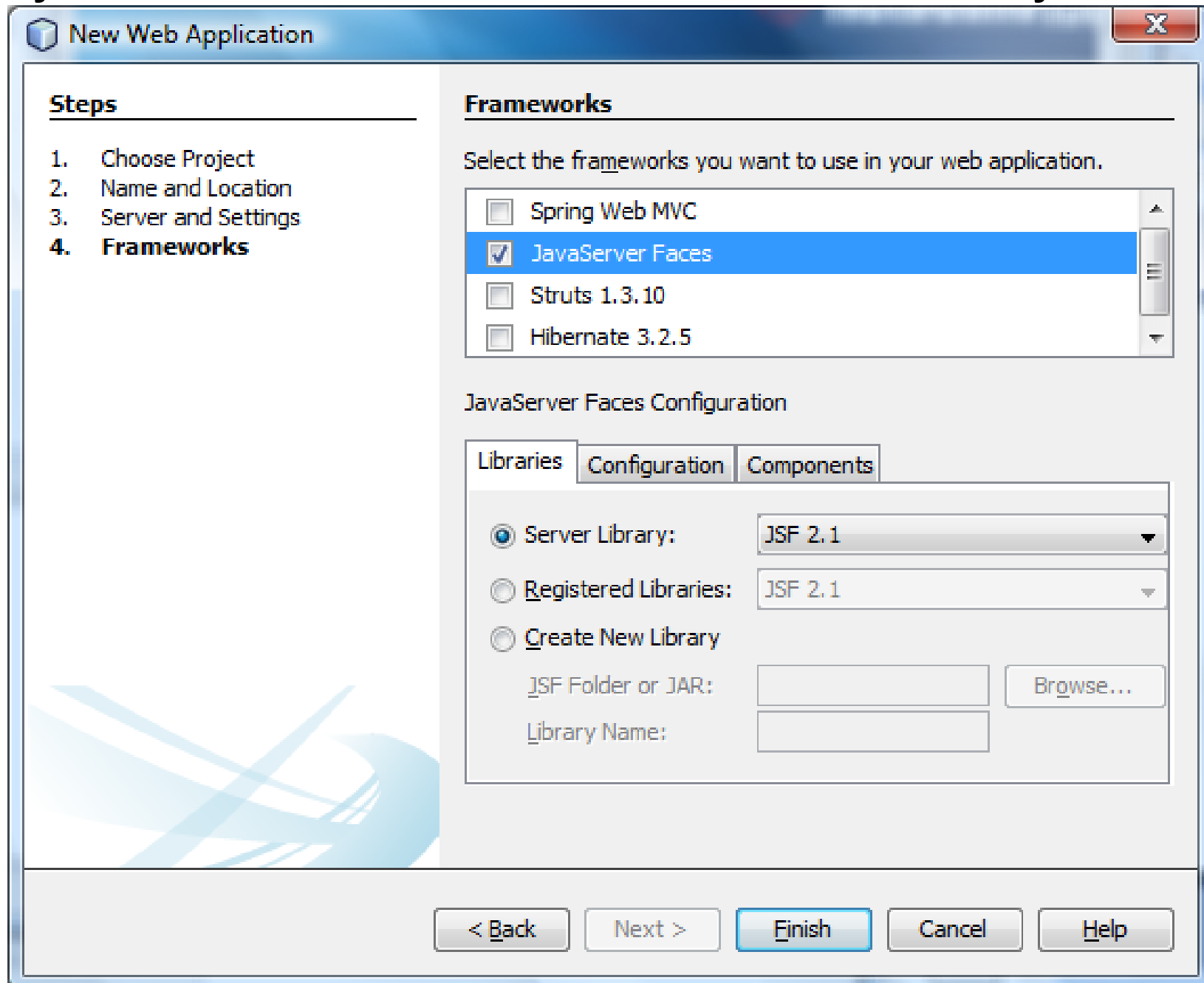
Set Source Level to 6

Recommendation: Source Level 6 should be used in Java EE 6 projects.

Context Path: /Witaj

< Back Next > Finish Cancel Help

# Wybór frameworka JavaServer Faces – oznacza to domyślnie JSF 2.1



# Rola zakładki **Configuration** (1)

**New Web Application**

**Steps**

1. Choose Project
2. Name and Location
3. Server and Settings
- 4. Frameworks**

**Frameworks**

Select the frameworks you want to use in your web application.

- Spring Web MVC
- JavaServer Faces
- Struts 1.3.10
- Hibernate 3.2.5

JavaServer Faces Configuration

Libraries Configuration Components

JSF Servlet URL Pattern:

Preferred Page Language:

< Back Next > Finish Cancel Help

## Rola zakładki **Configuration** (2)

**New Web Application**

**Steps**

1. Choose Project
2. Name and Location
3. Server and Settings
4. **Frameworks**

**Frameworks**

Select the frameworks you want to use in your web application.

- Spring Web MVC
- JavaServer Faces**
- Struts 1.3.10
- Hibernate 3.2.5

JavaServer Faces Configuration

Libraries Configuration Components

JSF Servlet URL Pattern:

Preferred Page Language:

Facelets  
JSP

< Back Next > Finish Cancel Help

# Zawartość strony xhtml – szablon do generowania strony HTML

The screenshot displays the NetBeans IDE 7.2 interface. The main editor window shows the source code of an XHTML file named `index.xhtml`. The code is as follows:

```
1  html  h:body
2  <?xml version='1.0' encoding='UTF-8' ?>
3  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
4  <html xmlns="http://www.w3.org/1999/xhtml"
5  xmlns:h="http://java.sun.com/jsf/html">
6  <h:head>
7  <title>Facelet Title</title>
8  </h:head>
9  <h:body>
10  Hello from Facelets
11 </h:body>
12 </html>
```

The left sidebar shows a project tree with a folder named "Witaj" containing a "Web Pages" sub-folder, which in turn contains the `index.xhtml` file. Below the project tree is the "index.xhtml - Navigator" panel, showing a tree view with `html` and `title` elements.

On the right side, the "Palette" panel is visible, containing various HTML and JSF components such as Table, Unordered List, Form, Text Input, and Button. Below the palette is the "index.xhtml - Properties" panel, which shows the "Name" property set to "index".

At the bottom of the IDE, the "Output" panel is empty. The status bar at the very bottom indicates "4 | 9 | 19 | INS".

# Kompilacja aplikacji – Clean and Build (wybór z listy po kliknięciu prawym klawiszem na nazwę projektu w zakładce Projects)

The screenshot displays the NetBeans IDE interface. The 'Projects' window on the left shows a project named 'Witaj'. A right-click context menu is open over 'Witaj', with 'Clean and Build' selected. The main editor window shows an XML file named 'index.xhtml' with the following content:

```
<?xml version='1.0' encoding='UTF-8' ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://java.sun.com/jsf/html">
  <h:head>
    <title>Facelet Title</title>
  </h:head>
  <h:body>
    Hello from Facelets
  </h:body>
</html>
```

The 'Palette' window on the right shows various UI components categorized under HTML, HTML Forms, and JSF. The 'Witaj - Properties' window at the bottom right shows '<No Properties>' and project information: 'Witaj' is a web project in 'E:\JSF\JavaPK\Witaj'.

# Zakładka Output podczas kompilacji

The screenshot displays the NetBeans IDE 7.2 interface during a compilation process. The main editor shows an XHTML file with the following content:

```
html h:body h2
3 <html xmlns="http://www.w3.org/1999/xhtml"
4     xmlns:h="http://java.sun.com/jsf/html">
5
6     <h:head>
7         <title>Facelet Title</title>
8     </h:head>
9     <h:body>
```

The Output window shows the following log messages:

```
Java DB Database Process  GlassFish Server 3+  Witaj (clean,dist)
Deleting directory E:\JSF\JavaPK\Witaj\dist
check-clean:
clean:
init:
deps-module-jar:
deps-ear-jar:
deps-jar:
Created dir: E:\JSF\JavaPK\Witaj\build\web\WEB-INF\classes
Created dir: E:\JSF\JavaPK\Witaj\build\web\META-INF
Copying 1 file to E:\JSF\JavaPK\Witaj\build\web\META-INF
Copying 5 files to E:\JSF\JavaPK\Witaj\build\web
library-inclusion-in-archive:
library-inclusion-in-manifest:
Created dir: E:\JSF\JavaPK\Witaj\build\empty
Created dir: E:\JSF\JavaPK\Witaj\build\generated-sources\ap-source-output
compile:
compile-jsp:
Created dir: E:\JSF\JavaPK\Witaj\dist
Building jar: E:\JSF\JavaPK\Witaj\dist\Witaj.war
do-dist:
dist:
BUILD SUCCESSFUL (total time: 0 seconds)
```

The left sidebar shows the project structure for 'Witaj', including 'Web Pages' and 'WEB-INF' files. The right sidebar shows the 'Palette' with various HTML and JSF components.



# Zawartość deskryptora web.xml

The screenshot displays the NetBeans IDE interface with the following components:

- Top Menu Bar:** File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Team, Tools, Window, Help.
- Toolbar:** Includes icons for file operations, a dropdown menu showing 'localhost', and a search icon with the text 'Search (Ctrl+I)'.
- Left Panel (Files):** Shows a project tree for 'Witaj' with subfolders like 'Web Pages', 'WEB-INF', 'Source Packages', 'Libraries', and 'Configuration Files'. The 'web.xml' file is selected.
- Central Editor:** Displays the XML code for 'web.xml' with line numbers 1 through 25. The code is as follows:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <web-app version="3.0" xmlns="http://java.sun.com/xml/ns/ja
3   <context-param>
4     <param-name>javax.faces.PROJECT_STAGE</param-name>
5     <param-value>Development</param-value>
6   </context-param>
7   <servlet>
8     <servlet-name>Faces Servlet</servlet-name>
9     <servlet-class>javax.faces.webapp.FacesServlet</ser
10    <load-on-startup>1</load-on-startup>
11  </servlet>
12  <servlet-mapping>
13    <servlet-name>Faces Servlet</servlet-name>
14    <url-pattern>/faces/*</url-pattern>
15  </servlet-mapping>
16  <session-config>
17    <session-timeout>
18      30
19    </session-timeout>
20  </session-config>
21  <welcome-file-list>
22    <welcome-file>faces/index.xhtml</welcome-file>
23  </welcome-file-list>
24 </web-app>
25
```
- Right Panel (Properties):** Shows the properties for the selected 'web.xml' file:

web.xml - Pro...	
Name	web
Extension	xml
All Files	E:\WSF\Wa...
File Size	973
Modification Time	2013-03-01 ...
Servlet Spec.	3.0
- Bottom Panel (Output):** Shows the output of a build process:

```
Output - Witaj (clean,dist)
dist:
BUILD SUCCESSFUL (total time: 0 seconds)
```

# „Deploy” aplikacji, widok akcji serwera aplikacji w zakładce GlassFish Server 3+

The screenshot displays the NetBeans IDE 7.2 interface. The main editor window shows the source code of an XHTML file, `index.xhtml`, with the following content:

```
3 <html xmlns="http://www.w3.org/1999/xhtml"
4       xmlns:h="http://java.sun.com/jsf/html">
5
6     <h:head>
7       <title>Facelet Title</title>
8     </h:head>
9     <h:body>
10      <h2> Hello from Facelets </h2>
11
12    </h:body>
13 </html>
```

The `<h2>` and `</h2>` tags are highlighted in yellow. The `Deploy` menu item is selected in the **Project** window. The **Output** window at the bottom shows the following log messages:

```
Java DB Database Process | GlassFish Server 3+ | Witaj (run-deploy)
INFO: Initializing Mojarra 2.1.6 (SNAPSHOT 20111206) for context '/Witaj'
INFO: WEB0671: Loading application [Witaj] at [/Witaj]
INFO: Witaj was successfully deployed in 3 603 milliseconds.
```

The **Palette** window on the right lists various components for HTML and JSF, including Table, Unordered List, Image, Link, Meta data, HTML Forms (Form, Text Input, Multi-line Input, Drop-down List, Checkbox, Radio Button, File Select, OK Button), JSF (Metadata, JSF Form, JSF Form From Entity, JSF Data Table, JSF Data Table From Entity).

# Zakładka Output podczas „deploy”

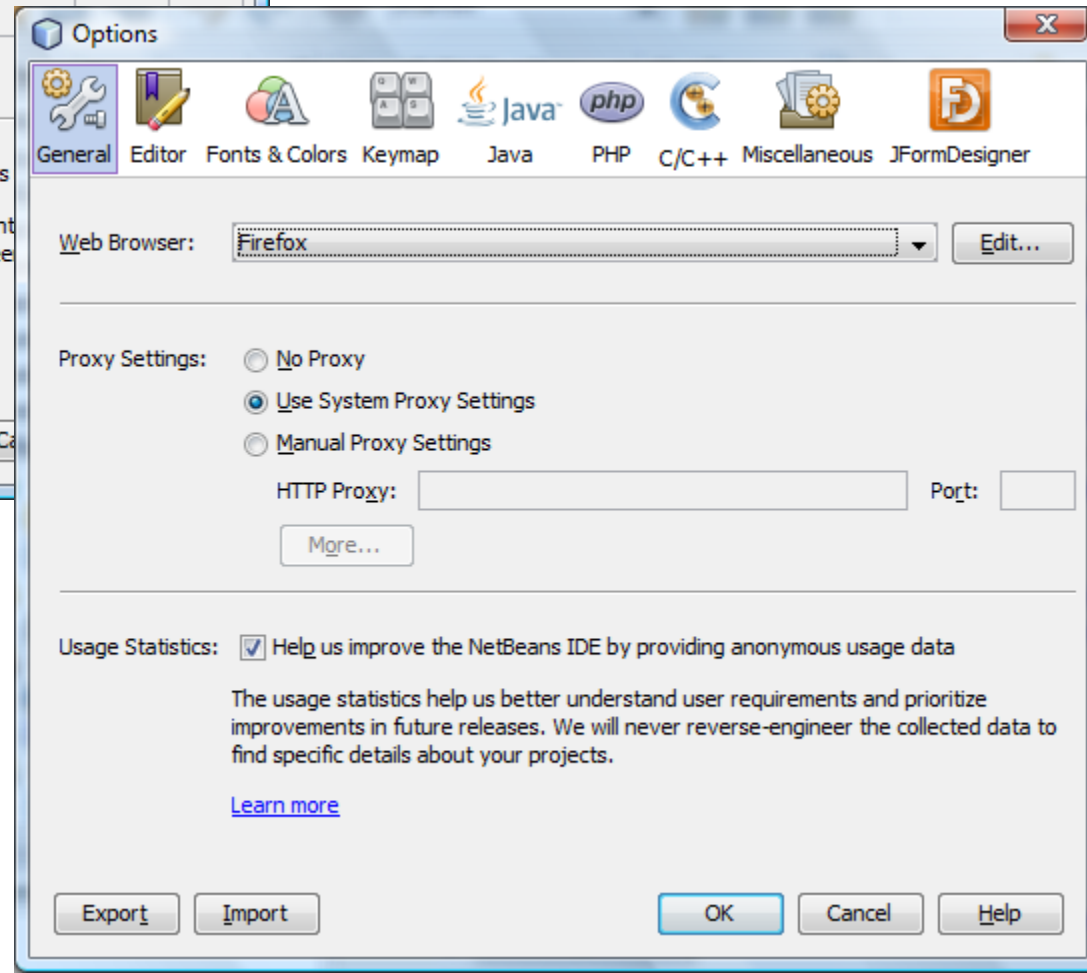
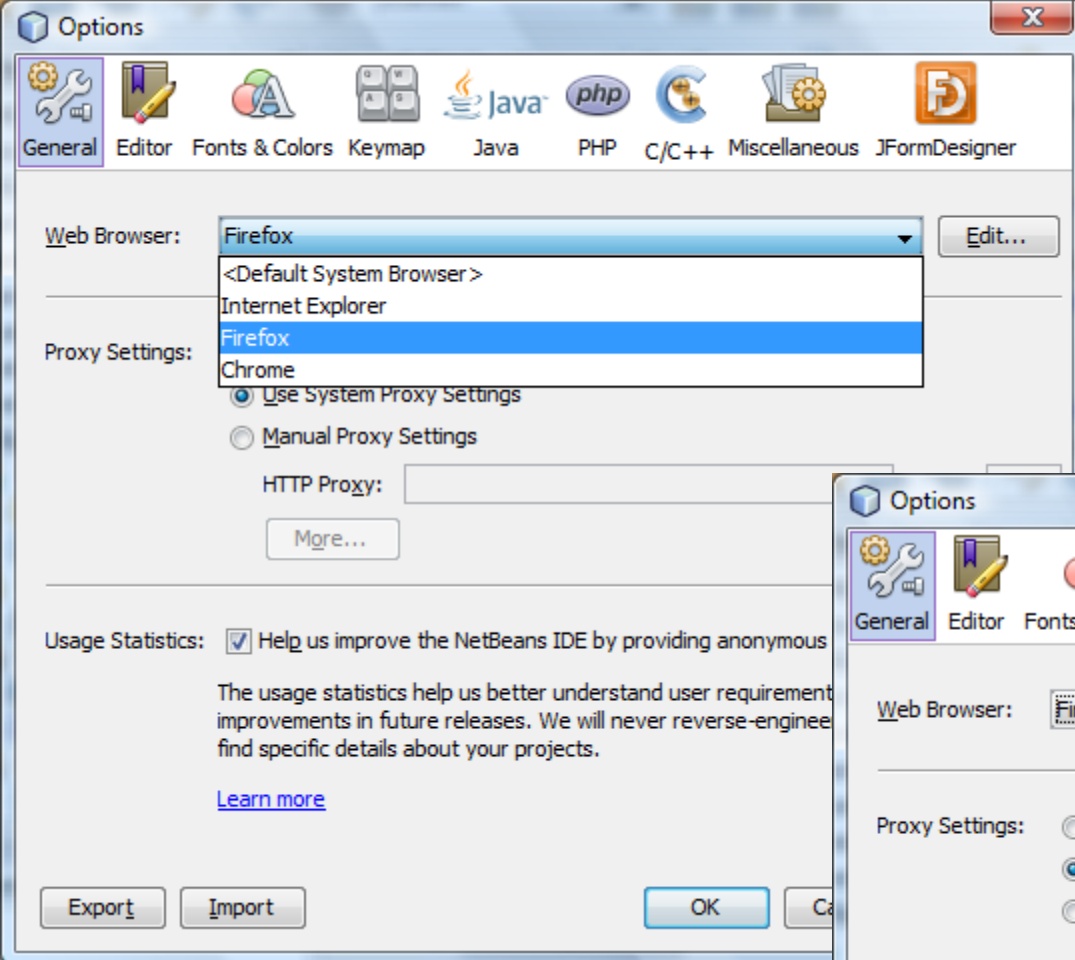
The screenshot displays the NetBeans IDE 7.2 interface during the deployment of a web application. The main editor shows the source code of `index.xhtml`, which is an HTML page with a title "Facelet Title" and a body containing the text "Hello from Facelets".

The **Output** window at the bottom shows the execution of the `run-deploy` goal, indicating a successful deployment:

```
ant -f E:\\JSF\\JavaPK\\Witaj -DforceRedeploy=true -Ddirectory.deployment.s...
init:
deps-module-jar:
deps-ear-jar:
deps-jar:
library-inclusion-in-archive:
library-inclusion-in-manifest:
compile:
compile-jsp:
In-place deployment at E:\\JSF\\JavaPK\\Witaj\\build\\web
Initializing...
run-deploy:
BUILD SUCCESSFUL (total time: 14 seconds)
```

The **Palette** on the right side of the IDE lists various components for the web application, including HTML elements (Table, Ordered List, Unordered List, Image, Link, Meta data), HTML Forms (Form, Text Input, Multi-line Input, Drop-down List, Checkbox, Radio Button, File Select, OK Button), JSF components (Metadata, JSF Form, JSF Form From Entity, JSF Data Table, JSF Data Table From Entity), and other UI elements.

# Wybór domyślnej przeglądarki: Tools/Options/General



# Uruchomienie aplikacji: **Run** (wybór z listy po kliknięciu prawym klawiszem na nazwę projektu w zakładce **Projects**)

The screenshot shows the NetBeans IDE interface. On the left, the 'Projects' tab is active, showing a tree view with 'Witaj - N' selected. A context menu is open over this project, with the 'Run' option highlighted. The main editor displays the 'web.xml' file with the following content:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.0" xmlns="http://java.sun.com/xml/ns/ja
<context-param>
  <param-name>javax.faces.PROJECT_STAGE</param-name>
  <param-value>Development</param-value>
</context-param>
<servlet>
  <servlet-name>Faces Servlet</servlet-name>
  <servlet-class>javax.faces.webapp.FacesServlet</ser
  <load-on-startup>1</load-on-startup>
</servlet>
<servlet-mapping>
  <servlet-name>Faces Servlet</servlet-name>
  <url-pattern>/faces/*</url-pattern>
</servlet-mapping>
<session-config>
  <session-timeout>
    30
  </session-timeout>
</session-config>
<welcome-file-list>
  <welcome-file>faces/index.xhtml</welcome-file>
</welcome-file-list>
</web-app>
```

At the bottom of the IDE, the 'Output' window shows the message: 'SUCCESSFUL (total time: 0 seconds)'. The status bar at the bottom right indicates '4' errors, '1' warning, and '1' info message.

# Zakładka Output po uruchomieniu aplikacji

The screenshot displays the NetBeans IDE 7.2 interface. The main window shows the source code of `index.xhtml` with the following content:

```
html h:body h2
3 <html xmlns="http://www.w3.org/1999/xhtml"
```

The Output window shows the following build logs:

```
ant -f E:\\JSF\\JavaPK\\Witaj -DforceRedeploy=false -Ddirectory.deployment...
init:
deps-module-jar:
deps-ear-jar:
deps-jar:
library-inclusion-in-archive:
library-inclusion-in-manifest:
compile:
compile-jsp:
Incrementally deploying Witaj
Completed incremental distribution of Witaj
run-deploy:
Browsing: http://localhost:26537/Witaj
run-display-browser:
run:
BUILD SUCCESSFUL (total time: 10 seconds)
```

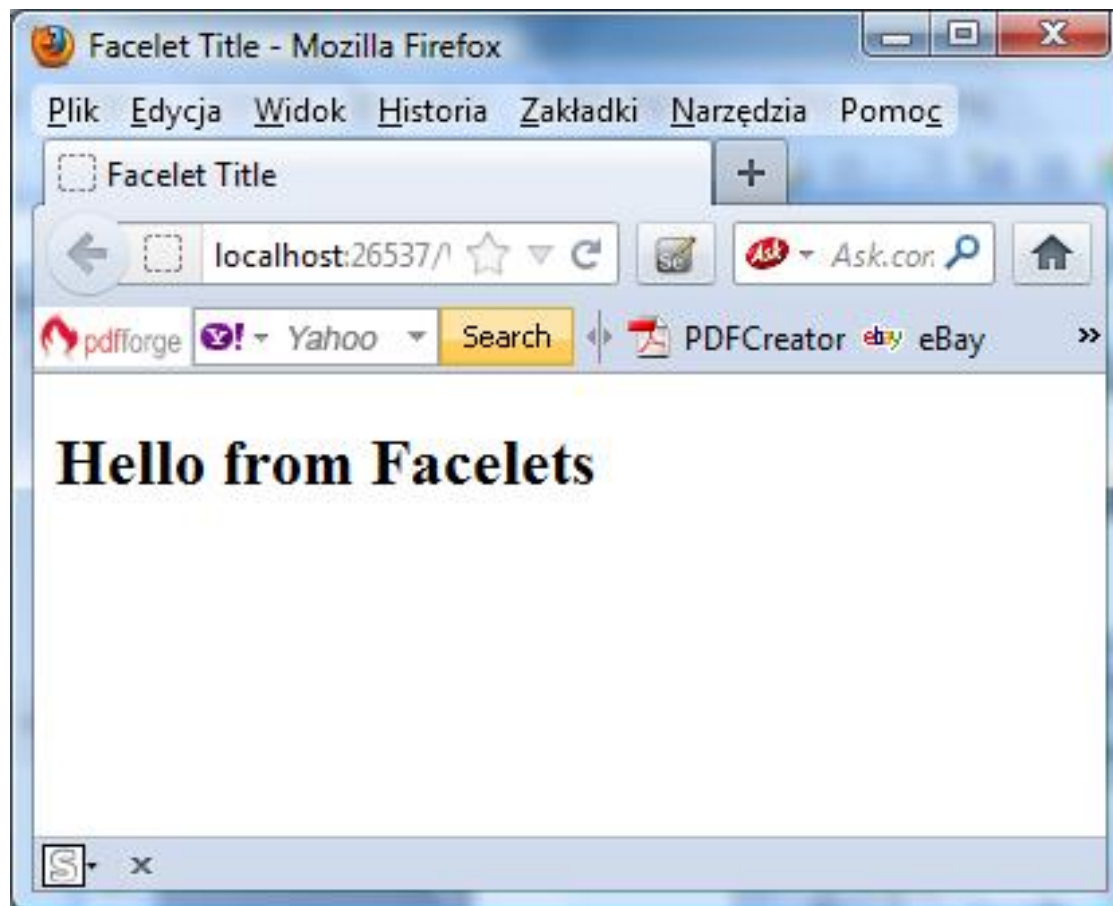
The HTTP Server Monitor window shows the following request details:

Request	Cookies	Session	Context	Client and Server	Headers
Current Records					
GET Witaj 22:35 01.03.13					
GET favicon.ico 22:35 01.03.13					
GET Witaj 22:35 01.03.13					
GET favicon.ico 22:35 01.03.13					
GET Witaj 22:37 01.03.13					

Request	
Request URI	/Witaj/
Method	GET
Query string	
Protocol	HTTP/1.1
Client IP address	0:0:0:0:0:0:1
Scheme	http
HTTP exit status (as set by servlet)	Could not be determined

The bottom right corner of the IDE shows the status bar with the text "4 | 10 | 43 | INS".

# Strona aplikacji



# **Przykład 2 aplikacji typu JavaServer Faces**

**<http://docs.oracle.com/javaee/6/tutorial/doc/bnadx.html>**



# Definicja formularza – domyślna strona startowa index.xhtml

Witaj - NetBeans IDE 7.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

localhost

index.xhtml

```
html h:body
2 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1
3 <html xmlns="http://www.w3.org/1999/xhtml"
4   xmlns:h="http://java.sun.com/jsf/htm
5 <h:head>
6   <title>Facelet Title</title>
7 </h:head>
8 <h:body>
9   <h:form>
10    <h2> Hello from Facelets </h2>
11    <h:inputText
12      id="name"
13      title="Imie: "
14      value="#{personalia.name}"
15      required="true"
16      requiredMessage="Blad: Podaj imie.
17      maxLength="10" />
18    <p></p>
19    <h:commandButton id="ok" value="Ok"
20      action="rezultat">
21    </h:commandButton>
22  </h:form>
23 </h:body>
```

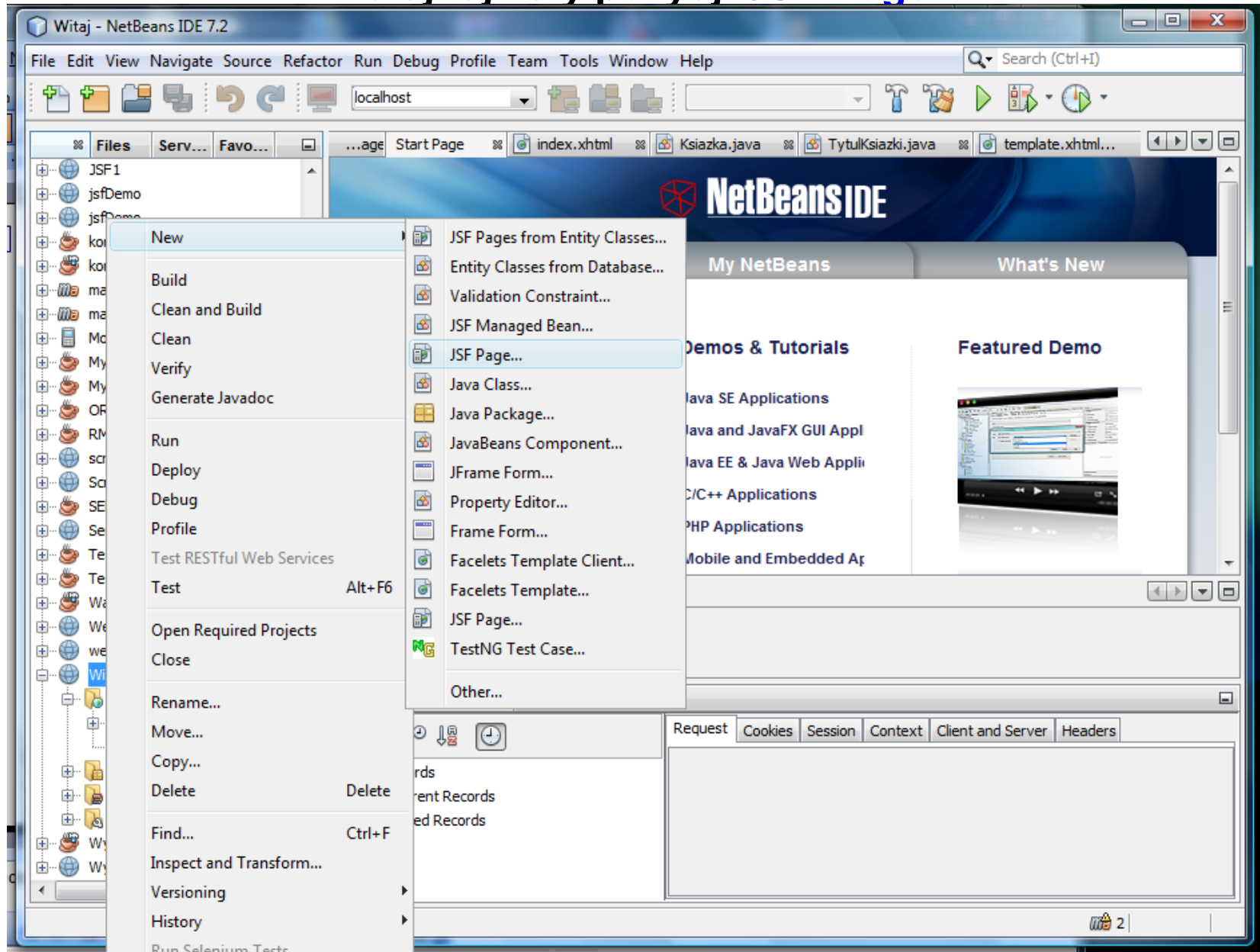
Pole tekstowe wejściowe (**inputText**) przypisuje dane wejściowe do atrybutu **name** obiektu **personalia** (**value**)

Wypełnienie pola jest wymagane (**required="true"**), w przeciwnym wypadku wyświetlany jest komunikat: Bład: Podaj imie. (**requiredMessage**)

Wprowadzone słowo nie może mieć więcej niż 10 znaków (**maxLength**),

Przycisk wywołujący akcję **Request**; w fazie **Response** zwracana jest strona **rezultat.xhtml**

**Dodanie nowej strony xhtml – wybór **New** z listy po kliknięciu prawym klawiszem na nazwę projektu w zakładce **Projects**, następnie wybór z kolejnej listy pozycji **JSP Page****



# Nadanie nazwy pliku rezultat (**File Name**) i wybór katalogu pliku (**Location**) i wybór **Next**

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

File Name:

Project:

Location:

Folder:

Created File:

Options:

Facelets

JSP File (Standard Syntax)  Create as a JSP Segment

Description:

< Back   Next >   **Finish**   Cancel   Help

# Zawartość pliku rezultat.xhtml

The screenshot shows the NetBeans IDE 7.2 interface. The main editor window displays the content of the file 'rezultat.xhtml'. The code is as follows:

```
<?xml version='1.0' encoding='UTF-8' ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:h="http://java.sun.com/jsf/html">
  <h:head>
    <title>Facelet Title</title>
  </h:head>
  <h:body>
    Hello from Facelets
  </h:body>
</html>
```

The IDE also shows a file explorer on the left with the project structure, an HTML palette on the right, and an HTTP Server Monitor at the bottom.

# Edycja strony [rezultat.xhtml](#) przez uzupełnienie kodu, wyświetlana w fazie **Response** po fazie **Request** ze strony [index.xhtml](#) – naciśnięcie przycisku OK

The screenshot shows the NetBeans IDE 7.2 interface. On the left, the 'Project Explorer' shows a project named 'Witaj' with a 'Web Pages' folder containing 'index.xhtml' and 'rezultat.xhtml'. The 'Source' window shows the XML code for 'index.xhtml'. A 'Library' window is open, displaying the 'outputLabel' component from the 'Http://java.sun.com/jsf/html (Html Basic)' library. The library description states: 'Renders an HTML "label" element. Render the current value of the component as label text if it is specified. If a "for" attribute is specified, find the component specified by the value of the "for" attribute, and render its client id as the value of the "for" attribute. If "styleClass" attribute is specified, render its value as the value of the "class" attribute.'

Below the library description is a list of available HTML Basic components:

<h:column>	Html Basic
<h:commandButton>	Html Basic
<h:commandLink>	Html Basic
<h:dataTable>	Html Basic
<h:form>	Html Basic
<h:graphicImage>	Html Basic
<h:head>	Html Basic
<h:inputHidden>	Html Basic
<h:inputSecret>	Html Basic
<h:inputText>	Html Basic
<h:inputTextarea>	Html Basic
<h:link>	Html Basic
<h:message>	Html Basic
<h:messages>	Html Basic
<h:outputFormat>	Html Basic
<h:outputLabel>	Html Basic
<h:outputLink>	Html Basic

# Strona rezultat.xhtml po edycji

Witaj - NetBeans IDE 7.2

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help

localhost

Source History Preview

```
html h:body h:form h:outputLabel
1 <?xml version='1.0' encoding='UTF-8' ?>
2 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0
3 <html xmlns="http://www.w3.org/1999/xhtml"
4     xmlns:h="http://java.sun.com/jsf/html">
5 <h:head>
6   <title>Facelet Title</title>
7 </h:head>
8 <h:body>
9   <h2> Hello from Facelets </h2>
10  <h:form>
11    <h:outputLabel
12      id="rezultat"
13      title="rezultat"
14      value="Witaj: #{personalia.name}">
15    </h:outputLabel>
16    <p></p>
17    <h:commandButton id="Powrot"
18      value="Powrot"
19      action="index">
20    </h:commandButton>
21  </h:form>
22 </h:body>
23 </html>
```

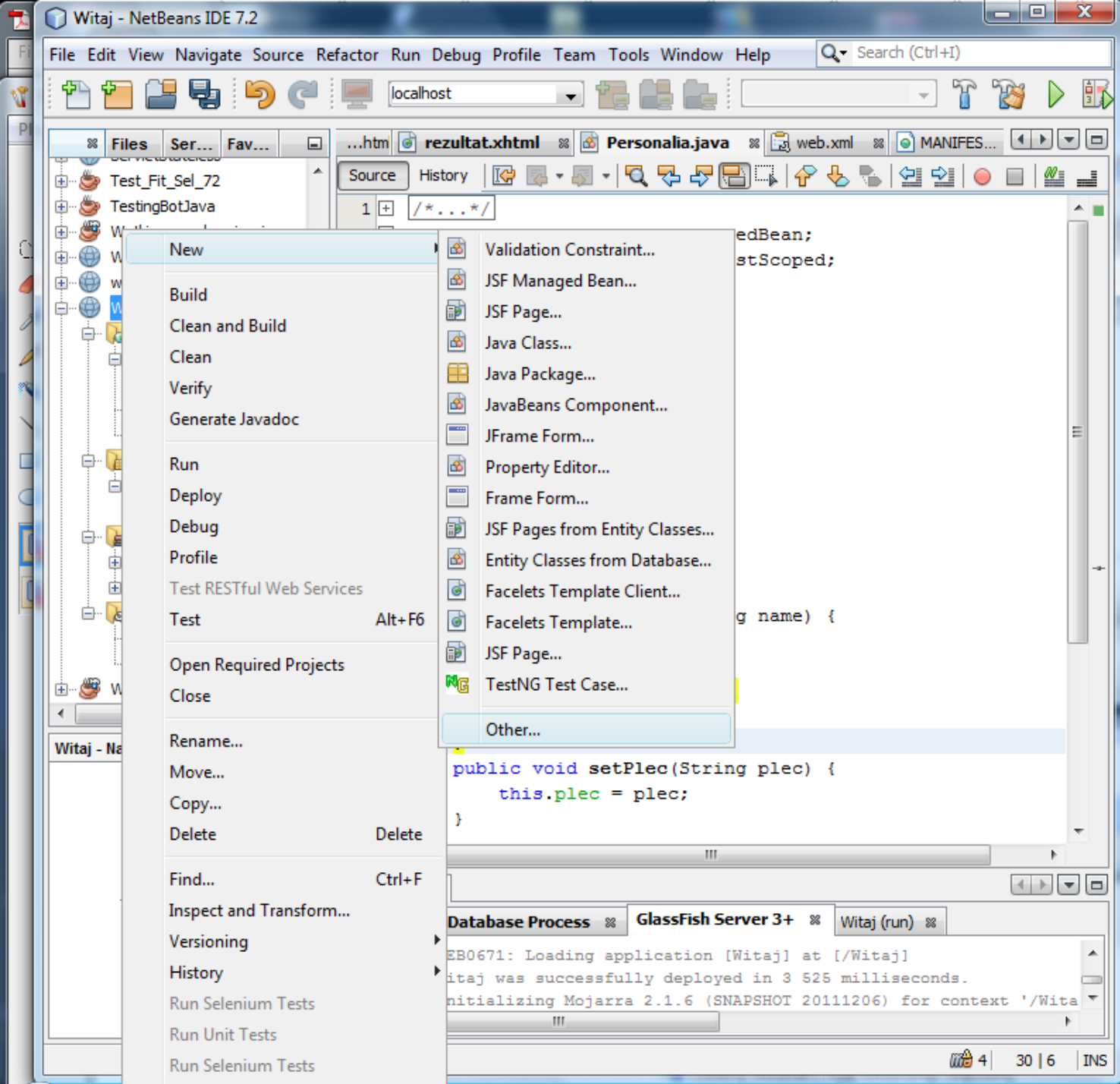
Palette HTML

- Table
- Ordered List
- Unordered List

Pole tekstowe wyjściowe typu etykieta **outputLabel**, które wyświetla dane pobrane z atrybutu **name** obiektu **personalia** (**value**)

Przycisk wywołujący akcję **Request**; w fazie **Response** zwracana jest strona **inedx.xhtml**

2 | 13 | 27 | INS



**Dodanie obiektu typu `ManagedBean` - wybór `New` z listy po kliknięciu prawym klawiszem na nazwę projektu w zakładce `Projects`, następnie wybór pozycji `Other` z kolejnej listy**

# Wybór JavaServer Faces/JSF ManagedBean (2)

The screenshot shows the 'New File' dialog box in an IDE. The title bar reads 'New File'. On the left, a 'Steps' pane shows '1. Choose File Type' and '2. ...'. The main area is titled 'Choose File Type'. At the top, the 'Project:' dropdown is set to 'Witaj'. Below this, there are two panes: 'Categories:' and 'File Types:'. The 'Categories:' pane shows a tree view with 'Web' selected, and its sub-items are 'JavaServer Faces', 'Bean Validation', 'Struts', 'Spring Framework', 'Enterprise JavaBeans', 'Contexts and Dependency Injection', 'Java', and 'Swing GUI Forms'. The 'File Types:' pane lists several options, with 'JSF Managed Bean' highlighted in blue. Below these panes is a 'Description:' field containing the text 'Creates a new managed bean class.' At the bottom of the dialog, there are five buttons: '< Back', 'Next >', 'Finish', 'Cancel', and 'Help'.

**Steps**

1. Choose File Type
2. ...

**Choose File Type**

Project:

**Categories:**

- Web
  - JavaServer Faces
  - Bean Validation
  - Struts
  - Spring Framework
  - Enterprise JavaBeans
  - Contexts and Dependency Injection
  - Java
  - Swing GUI Forms

**File Types:**

- JSF Page
- JSF Managed Bean**
- JSF Faces Configuration
- JSF Composite Component
- JSF Pages from Entity Classes
- Facelets Template
- Facelets Template Client

**Description:**

Creates a new managed bean class.

< Back   Next >   Finish   Cancel   Help



# Wybór czasu życia obiektu typu **ManagedBean** (3)

New JSF Managed Bean

**Steps**

1. Choose File Type
2. **Name and Location**

**Name and Location**

Class Name:

Project:

Location:

Package:

Created File:

Add data to configuration file


Configuration File:

Name:

Scope:

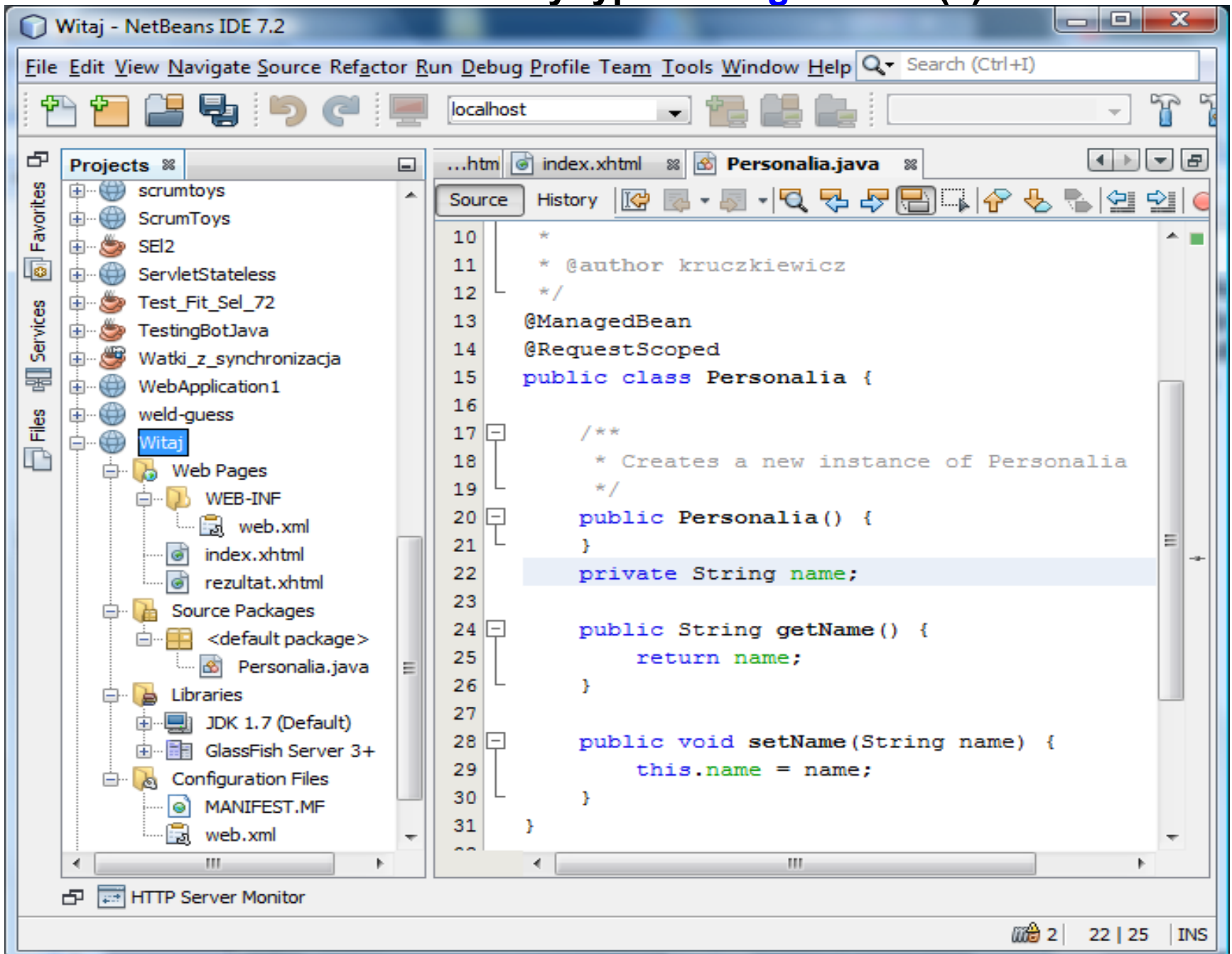
Bean Description:

- request
- session
- application
- view
- none

 Warning: It is highly recommended that you do NOT place Java classes in the default

< Back   Next >   **Finish**   Cancel   Help

## Zawartość klasy typu ManagedBean (4)



The screenshot displays the NetBeans IDE 7.2 interface. The title bar reads "Witaj - NetBeans IDE 7.2". The menu bar includes "File", "Edit", "View", "Navigate", "Source", "Refactor", "Run", "Debug", "Profile", "Team", "Tools", "Window", and "Help". A search bar on the right contains "Search (Ctrl+I)". The toolbar features icons for file operations and a "localhost" dropdown. The left sidebar shows a project tree for "Witaj" with subfolders like "Web Pages", "Source Packages", and "Libraries". The main editor window shows the source code of "Personalia.java".

```
10  *
11  * @author kruczkiewicz
12  */
13  @ManagedBean
14  @RequestScoped
15  public class Personalia {
16
17      /**
18       * Creates a new instance of Personalia
19       */
20      public Personalia() {
21      }
22      private String name;
23
24      public String getName() {
25          return name;
26      }
27
28      public void setName(String name) {
29          this.name = name;
30      }
31  }
```

At the bottom of the IDE, the "HTTP Server Monitor" is visible, and the status bar shows "2 | 22 | 25 | INS".

# Aplikacja po uruchomieniu

