

# NetUI: JSF Integration

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## 1. Introduction

This sample shows how to integrate JSF (Java Server Faces) into your NetUI web app; specifically, how to use JSF pages as the View tier with NetUI Page Flow as the Controller tier. For more information see [Java Server Faces](#).

## 2. Running the Sample on Tomcat 5

The following instructions explain how to run the sample on Tomcat 5. The sample will run on other web containers, but we have chosen Tomcat 5 for convenience.

### 2.1. To Set up the Environment

Before proceeding, complete all of the necessary and optional steps in the following topic: [Beehive Installation and Setup](#)

Open a command shell and confirm that you have set following variables:

- ANT\_HOME
- JAVA\_HOME
- CATALINA\_HOME

Also ensure that the following elements are on your PATH:

- ANT\_HOME/bin
- JAVA\_HOME/bin

### 2.2. To Copy the Application to a Project Folder (Optional Step)

To keep your Beehive distribution directory pristine, you should copy the folder <BeehiveRoot>/samples/netui-jsf to another location before proceeding.

#### Note:

<BeehiveRoot> refers to the top-level directory of your Beehive installation. A typical value for <BeehiveRoot> would be /apache/apache-beehive-1.0.

The following instructions assume that you have copied the folder netui-jsf into the directory /beehive\_projects, resulting in the following directory structure.

```
/
  beehive_projects
    netui-jsf
```

#### Note:

```
Strictly speaking, you do not need to copy the netui-jsf directory to another location. If you wish to leave the
netui-jsf directory in place, in the instructions below you must replace occurrences of the path element
/bee hive_projects with this path element: <BeehiveRoot>/samples.
For example, to build the sample, run the following Ant command:
ant -f <BeehiveRoot>/samples/netui-jsf/src/WEB-INF/build.xml clean build war
To delete the sample's build directory, run the clean target:
ant -f <BeehiveRoot>/samples/netui-jsf/src/WEB-INF/build.xml clean
```

## 2.3. To Download a JSF Implementation

Download and install one of the following JSF implementations:

- [MyFaces v1.0.9 or later](#)
- [JSF Reference Implementation v1.1\\_01](#)

## 2.4. To Edit the build.properties File

In this section you will edit the `build.properties` file--the file that sets the build-related properties for your web application.

Open the file

`/bee hive_projects/netui-jsf/WEB-INF/src/build.properties` in a text editor.

Edit the file so that the `bee hive.home` property points to the top-level folder of your bee hive installation.

Also uncomment one of the properties `myfaces.dir` or `jsf-ri.dir`. Point the uncommented property at the appropriate directory.

For example, if your bee hive installation resides at `/apache/apache-bee hive-1.0` and you have installed the JSF Reference Implementation, then your `build.properties` file would appear as follows.

```
bee hive.home=/apache/apache-bee hive-1.0

servlet-api.jar=${os.CATALINA_HOME}/common/lib/servlet-api.jar
jsp-api.jar=${os.CATALINA_HOME}/common/lib/jsp-api.jar

context.path=netui-jsf

# TODO:
# if using MyFaces, uncomment the 'myfaces.dir' property and set it to a
# directory that contains
# myfaces.jar (MyFaces v1.0.9 or later).
#myfaces.dir=

# TODO:
```

```
# If using the JavaServer Faces Reference Implementation, uncomment the
'jsf-ri.dir' property and
# set it to a directory that contains jsf-api.jar and jsf-impl.jar (JSF RI
v1.1_01).
jsf-ri.dir=/java/jsf-1_1_01/lib
```

**Note:**

Windows users must use forwardslashes (/) not backslashes (\) in the build.properties file.

## 2.5. To Compile the Application

### 2.5.1. ...If Using JSF Reference Implementation

If you are using the JSF Reference Implementation, enter the following Ant command:

```
ant
-f /beehive_projects/netui-jsf/WEB-INF/src/build.xml
clean
build-jsf-ri
war
```

**Copy and Paste version:**

```
ant -f /beehive_projects/netui-jsf/WEB-INF/src/build.xml clean build-jsf-ri
war
```

### 2.5.2. ...If Using MyFaces

If you are using MyFaces, enter the following Ant command:

```
ant
-f /beehive_projects/netui-jsf/WEB-INF/src/build.xml
clean
build-myfaces
war
```

**Copy and Paste version:**

```
ant -f /beehive_projects/netui-jsf/WEB-INF/src/build.xml clean
build-myfaces war
```

Both of these targets build a WAR file and save it to:

```
/beehive_projects/netui-jsf.war
```

## 2.6. To Start Tomcat

To start Tomcat, run the following command:

```
%CATALINA_HOME%\bin\startup.bat
```

On non-Windows systems:

```
$CATALINA_HOME/bin/startup.sh
```

## 2.7. To Deploy to Tomcat

To deploy the samples, copy the WAR file to Tomcat's webapps directory.

On Windows:

```
copy C:\beehive_projects\netui-jsf.war %CATALINA_HOME%\webapps /Y
```

Everywhere else:

```
cp /beehive_projects/netui-jsf.war $CATALINA_HOME/webapps
```

## 2.8. Running

To browse the JSF sample, visit the following link in a browser:

<http://localhost:8080/netui-jsf>

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