Architectures Orientées Services

Exemple pratique de développement de Web Service

À l'aide de l'environnement de développement NetBeans

De quoi s'agit il ?

Ce qu'est NetBeans

La présentation de l'ergonomie de NetBeans

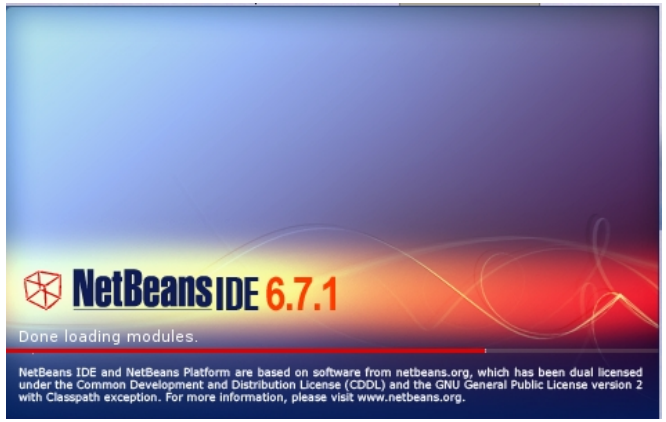
Exemple de création d'un web service, implanté sur un serveur d'application.

- Création d’un premier client pour un service

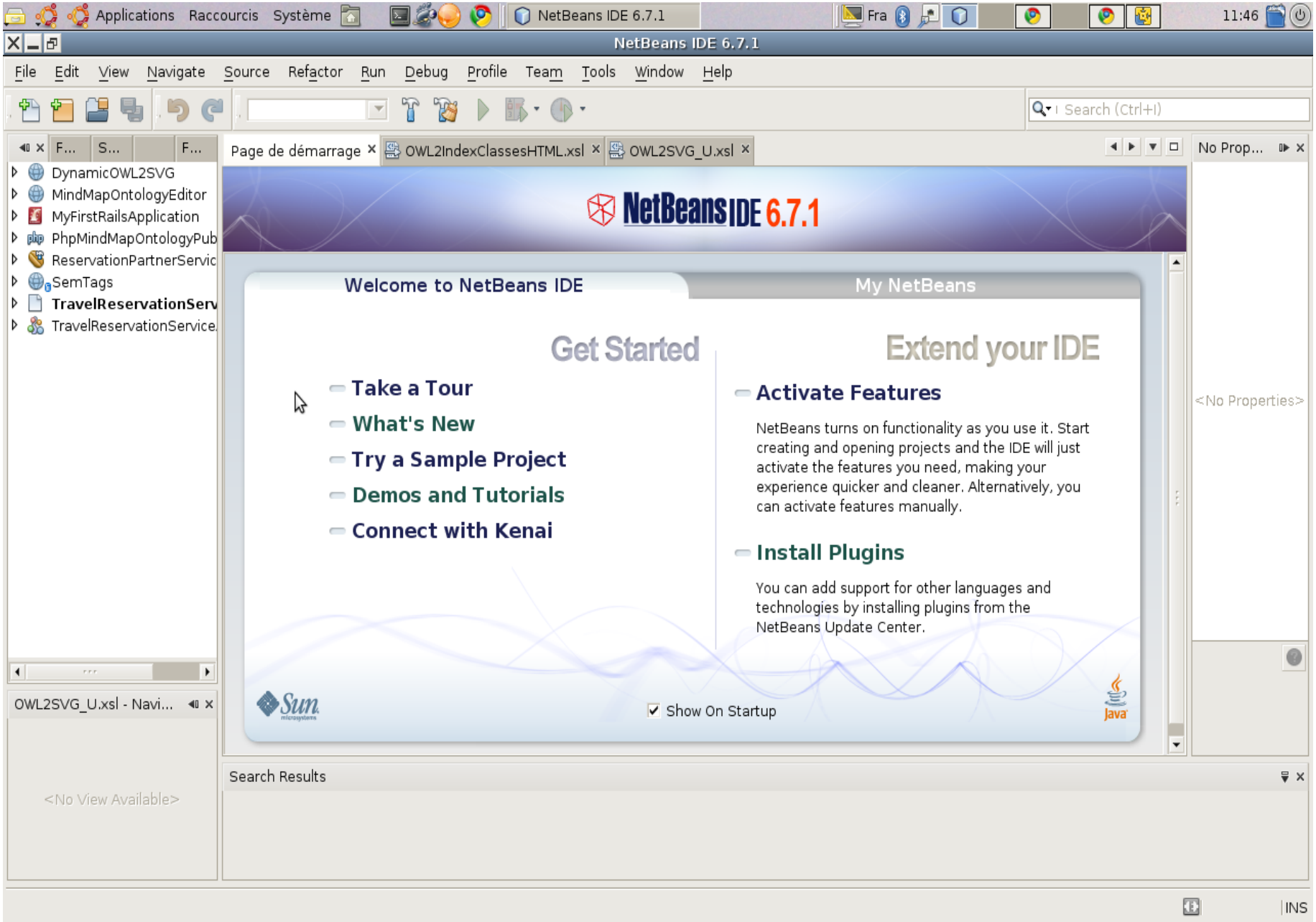
Création d’un second client, une servlet dans une application Web

Netbeans…

- Netbeans
  - est un environnement de développement logiciel (IDE) proposé par Sun,
  - qui permet de développer et de déployer des applications en différents langages (Java, PhP etc.)
  - qui Intègre la communication avec des serveurs d'application
    - Tomcat, Glassfish etc.
  - qui intègre des fonctionnalités pour le développement et l'orchestration de web services



… est un cliquodrome commode pour illustrer de façon concrète les concepts d'un cours


Applications Raccourcis Système
NetBeans IDE 6.7.1
11:46
NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
Page de démarrage
OWL2IndexClassesHTML.xsl
OWL2SVG_U.xsl
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DynamicOWL2SVG
MindMapOntologyEditor
MyFirstRailsApplication
PhpMindMapOntologyPub
ReservationPartnerServic
SemTags
TravelReservationServ
TravelReservationService
NetBeans IDE 6.7.1
Welcome to NetBeans IDE
My NetBeans
Get Started
Take a Tour
What's New
Try a Sample Project
Demos and Tutorials
Connect with Kenai
Extend your IDE
Activate Features
NetBeans turns on functionality as you use it. Start creating and opening projects and the IDE will just activate the features you need, making your experience quicker and cleaner. Alternatively, you can activate features manually.
Install Plugins
You can add support for other languages and technologies by installing plugins from the NetBeans Update Center.
Show On Startup
<No Properties>
OWL2SVG_U.xsl - Navi...
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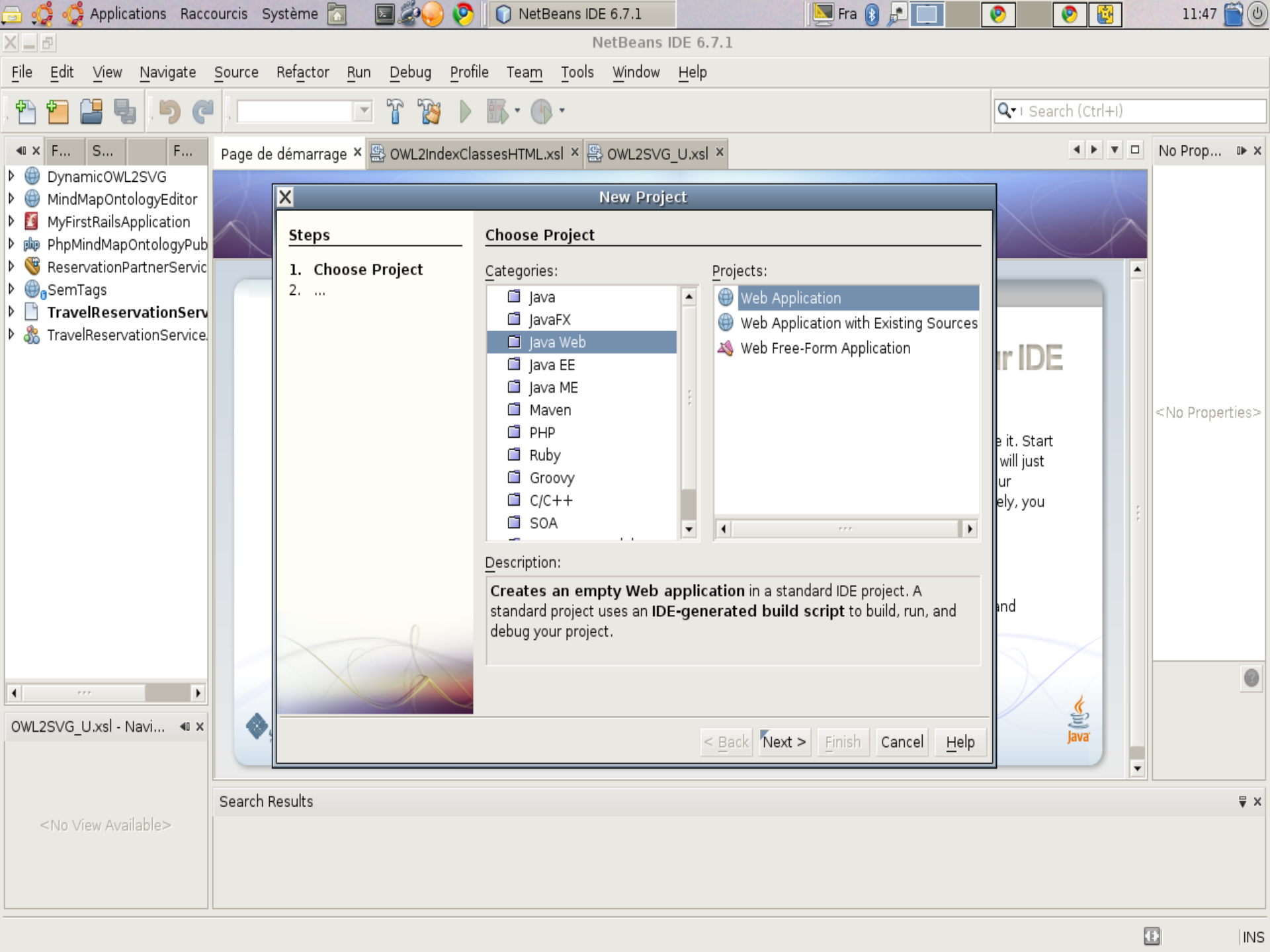
Search Results
INS

Création d’un Web service,
installé sur un serveur d’application

un service de multiplication


Applications Raccourcis Système
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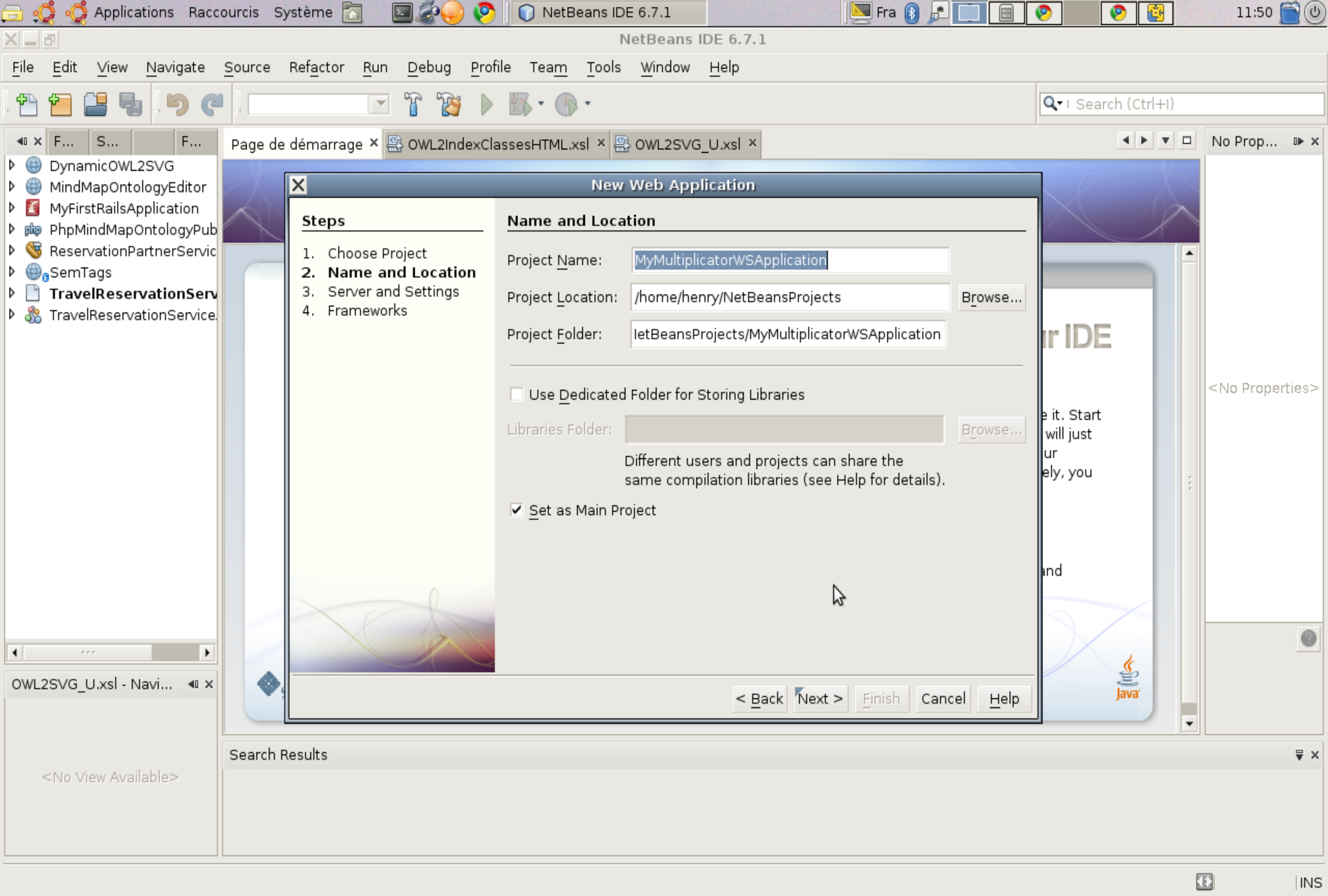
MyFirstRailsApplication
PhpMindMapOntologyPub
ReservationPartnerServic
SemTags
TravelReservationServ
TravelReservationService
Page de démarrage
OWL2IndexClassesHTML.xsl
OWL2SVG_U.xsl
No Prop...
<No Properties>
New Project
Steps
1. Choose Project
2. ...
Choose Project
Categories:
Java
JavaFX
Java Web
Java EE
Java ME
Maven
PHP
Ruby
Groovy
C/C++
SOA
Projects:
Web Application
Web Application with Existing Sources
Web Free-Form Application
Description:
Creates an empty Web application in a standard IDE project. A standard project uses an IDE-generated build script to build, run, and debug your project.
< Back
Next >
Finish
Cancel
Help
OWL2SVG_U.xsl - Navi...
<No View Available>
Search Results
INS


Applications Raccourcis Système
NetBeans IDE 6.7.1
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11:50
NetBeans IDE 6.7.1
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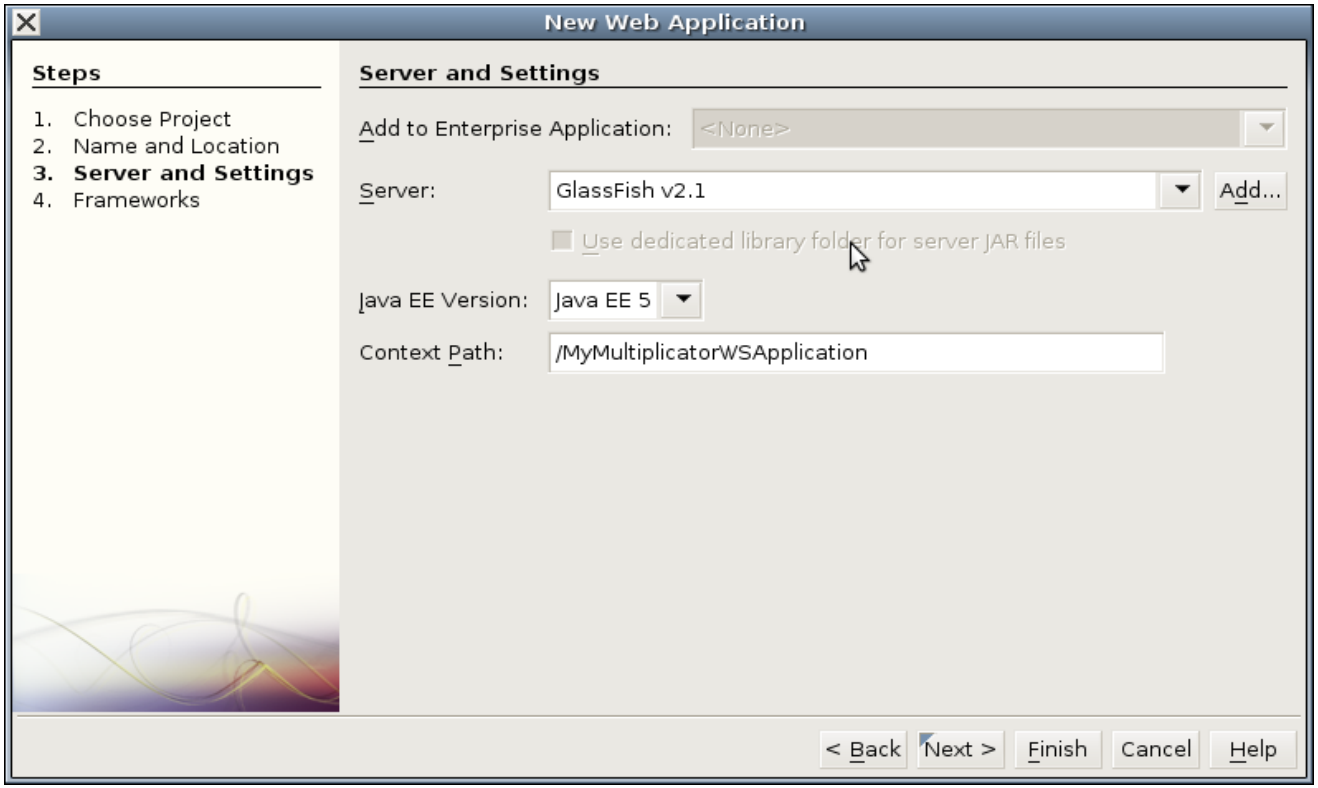
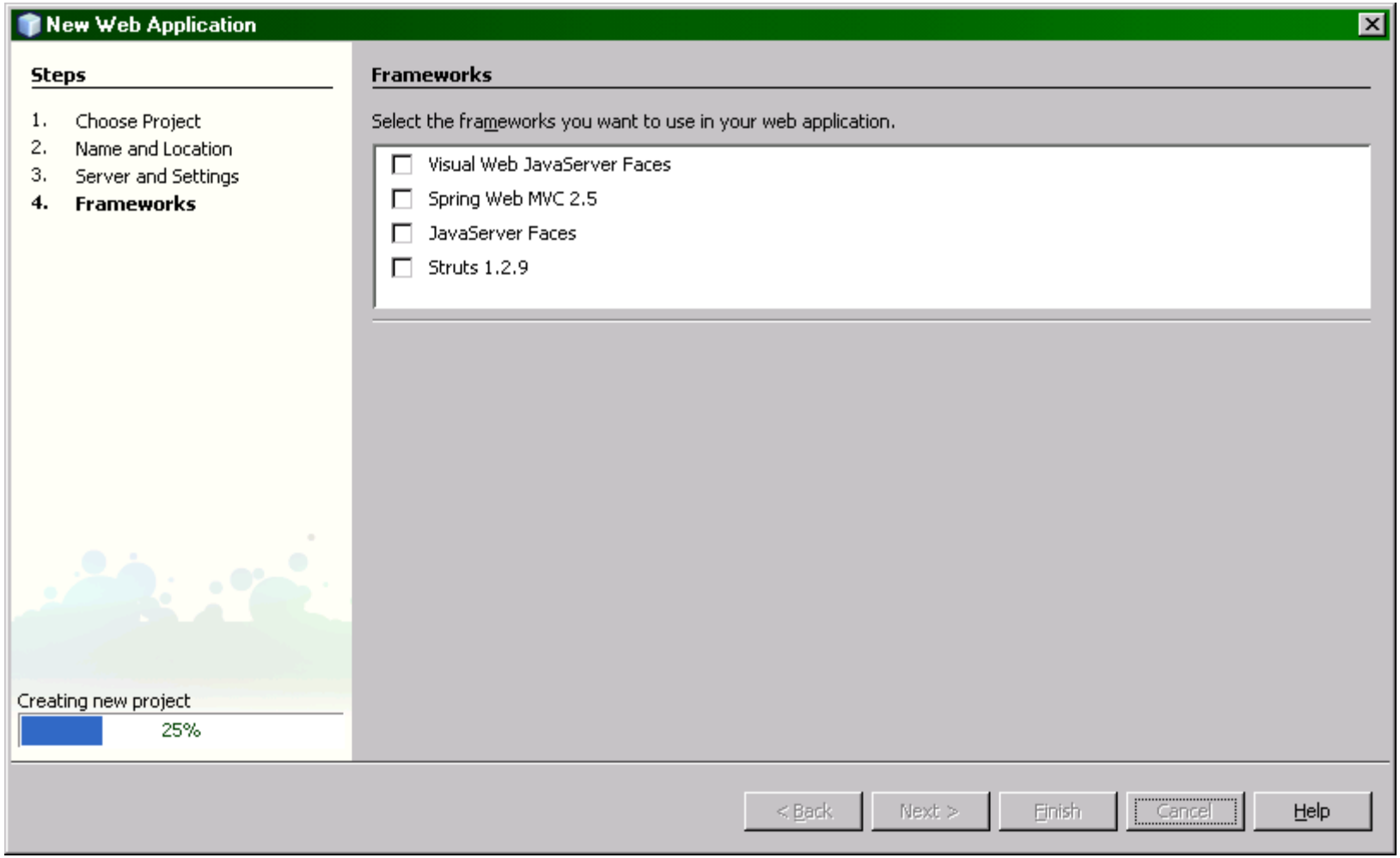
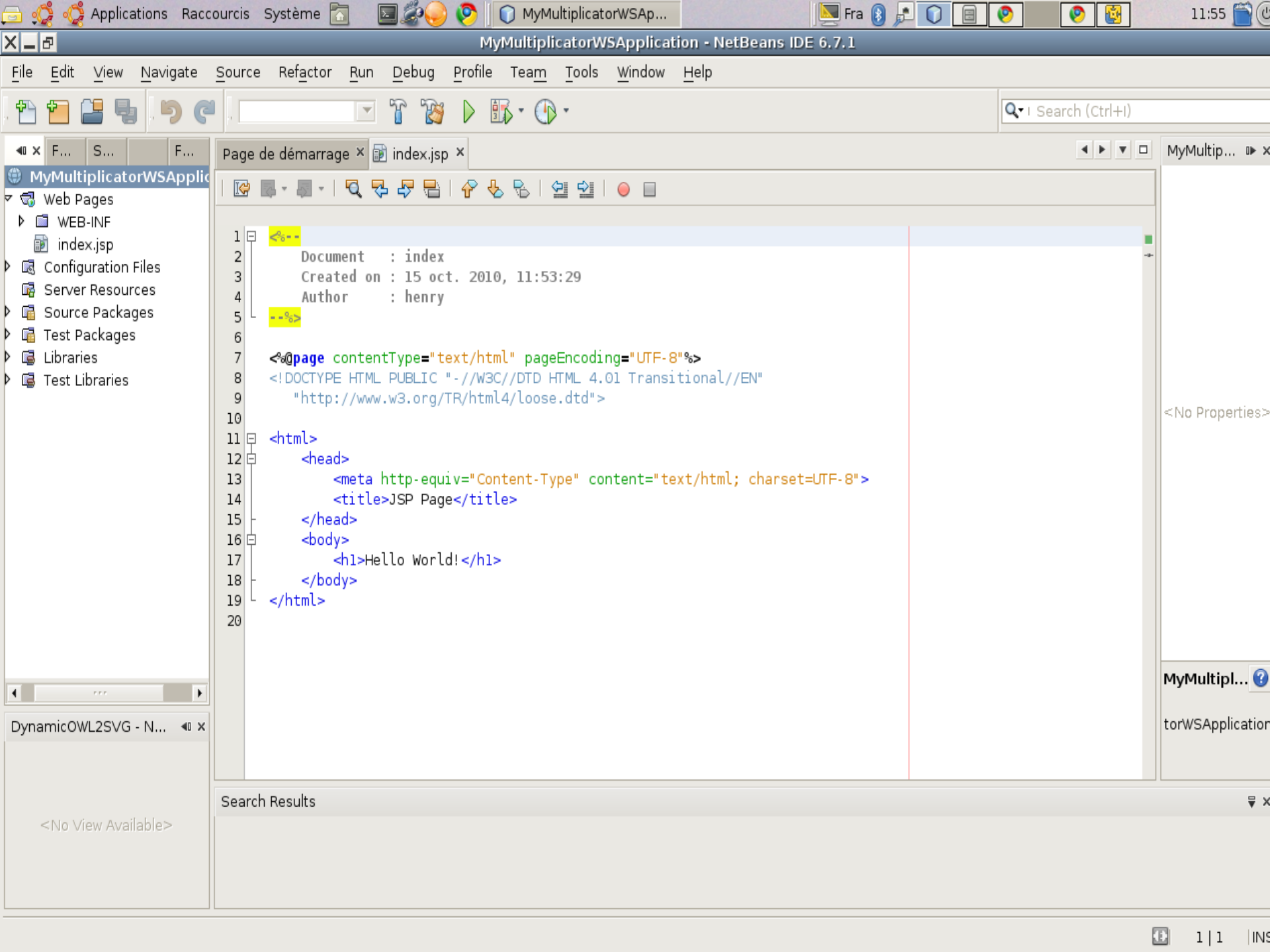
Search (Ctrl+I)
Page de démarrage
OWL2IndexClassesHTML.xsl
OWL2SVG_U.xsl
No Prop...
DynamicOWL2SVG
MindMapOntologyEditor
MyFirstRailsApplication
PhpMindMapOntologyPub
ReservationPartnerServic
SemTags
TravelReservationServ
TravelReservationService
New Web Application
Steps
1. Choose Project
2. Name and Location
3. Server and Settings
4. Frameworks
Name and Location
Project Name: MyMultiplicatorWSApplication
Project Location: /home/henry/NetBeansProjects
Browse...
Project Folder: letBeansProjects/MyMultiplicatorWSApplication
Use Dedicated Folder for Storing Libraries
Libraries Folder:
Browse...
Different users and projects can share the same compilation libraries (see Help for details).
Set as Main Project
< Back
Next >
Finish
Cancel
Help
<No Properties>
OWL2SVG_U.xsl - Navi...
<No View Available>
Search Results
INS

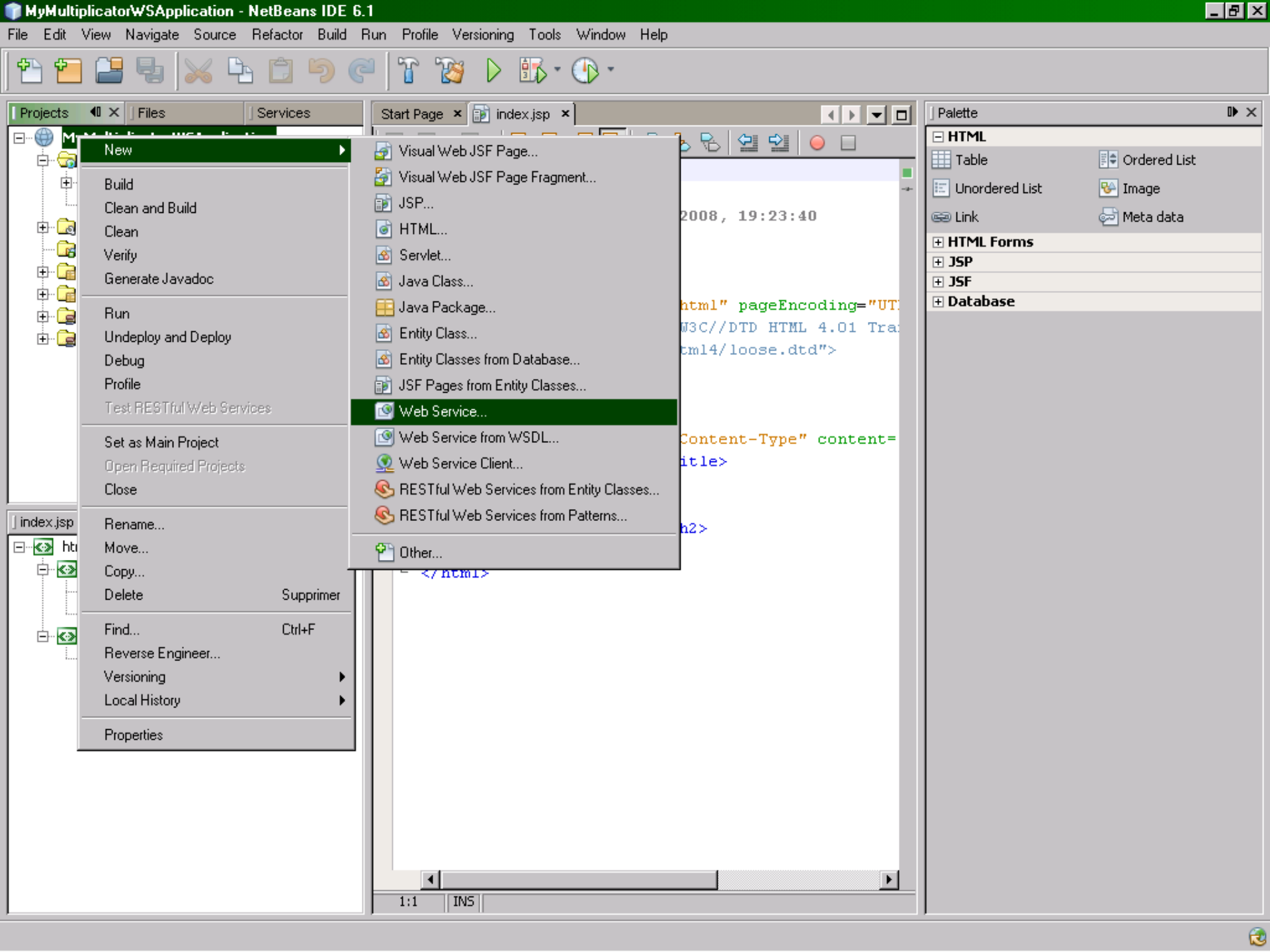

New Web Application
Steps
1. Choose Project
2. Name and Location
3. Server and Settings
4. Frameworks
Server and Settings
Add to Enterprise Application:
<None>
Server:
GlassFish v2.1
Add...
Use dedicated library folder for server JAR files
Java EE Version:
Java EE 5
Context Path:
/MyMultiplicatorWSApplication
< Back
Next >
Finish
Cancel
Help

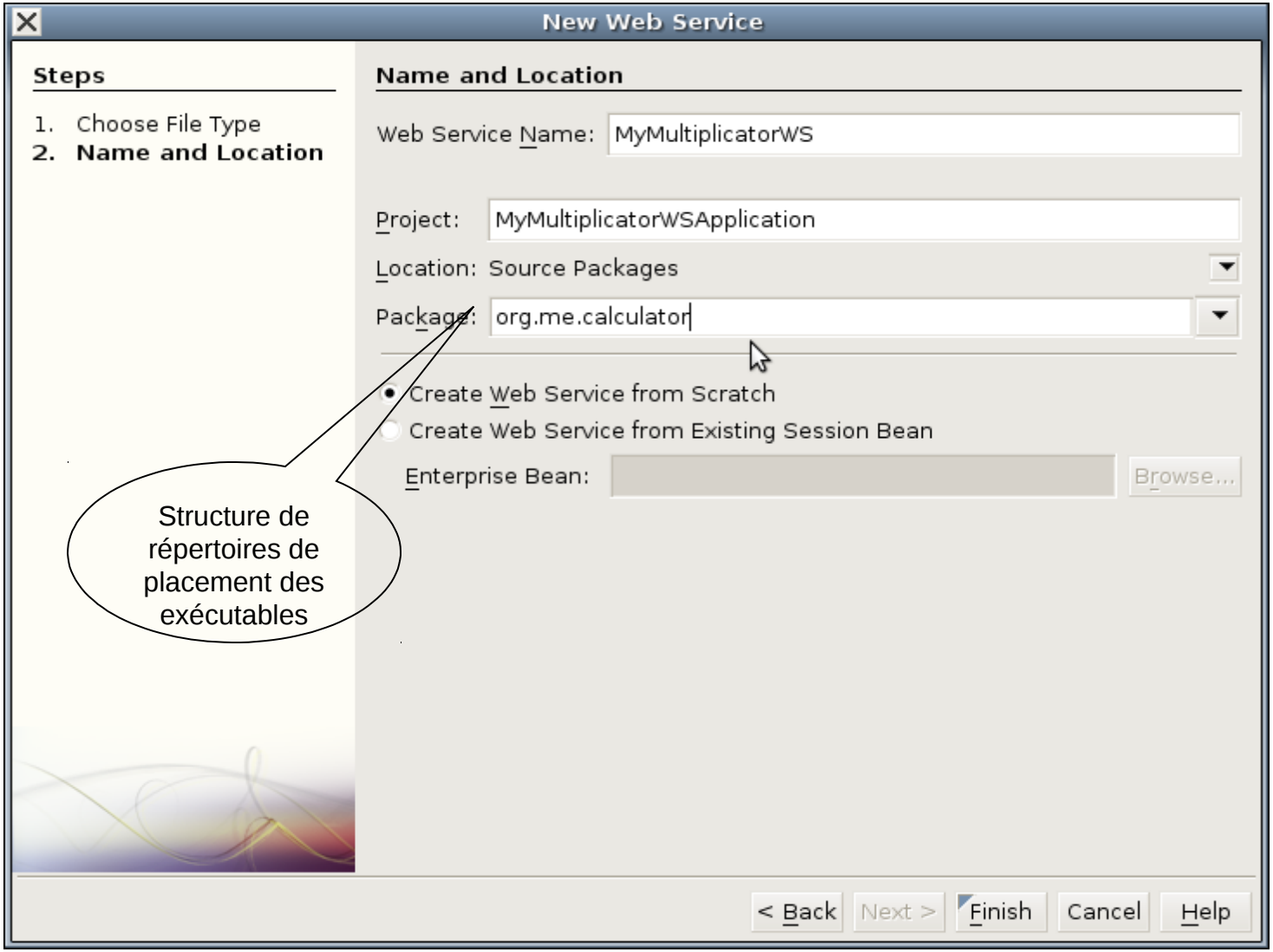

New Web Application
Steps
1. Choose Project
2. Name and Location
3. Server and Settings
4. Frameworks
Frameworks
Select the frameworks you want to use in your web application.
Visual Web JavaServer Faces
Spring Web MVC 2.5
JavaServer Faces
Struts 1.2.9
Creating new project
25%
< Back
Next >
Finish
Cancel
Help

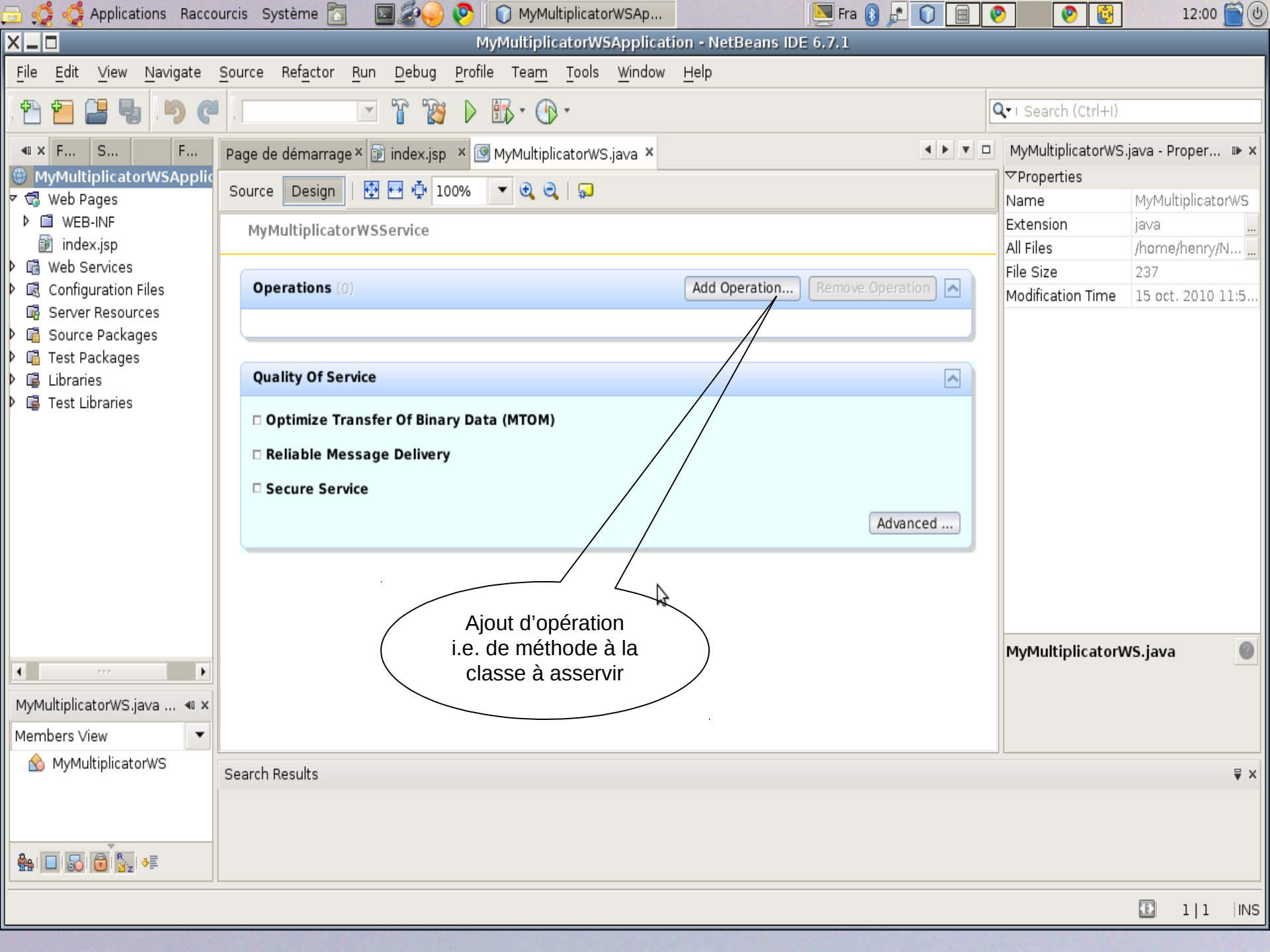

Applications Raccourcis Système
MyMultiplicatorWSAp...
Fra
11:55
MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
F... S... F...
MyMultiplicatorWSApplic
Web Pages
WEB-INF
index.jsp
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
Page de démarrage
index.jsp
1 <%--
2 Document : index
3 Created on : 15 oct. 2010, 11:53:29
4 Author : henry
5 --%>
6
7 <%@page contentType="text/html" pageEncoding="UTF-8"%>
8 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
9 "http://www.w3.org/TR/html4/loose.dtd">
10
11 <html>
12 <head>
13 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
14 <title>JSP Page</title>
15 </head>
16 <body>
17 <h1>Hello World!</h1>
18 </body>
19 </html>
20
MyMultip...
<No Properties>
MyMultipl...
torWSApplication
DynamicOWL2SVG - N...
<No View Available>
Search Results
1 | 1
INS

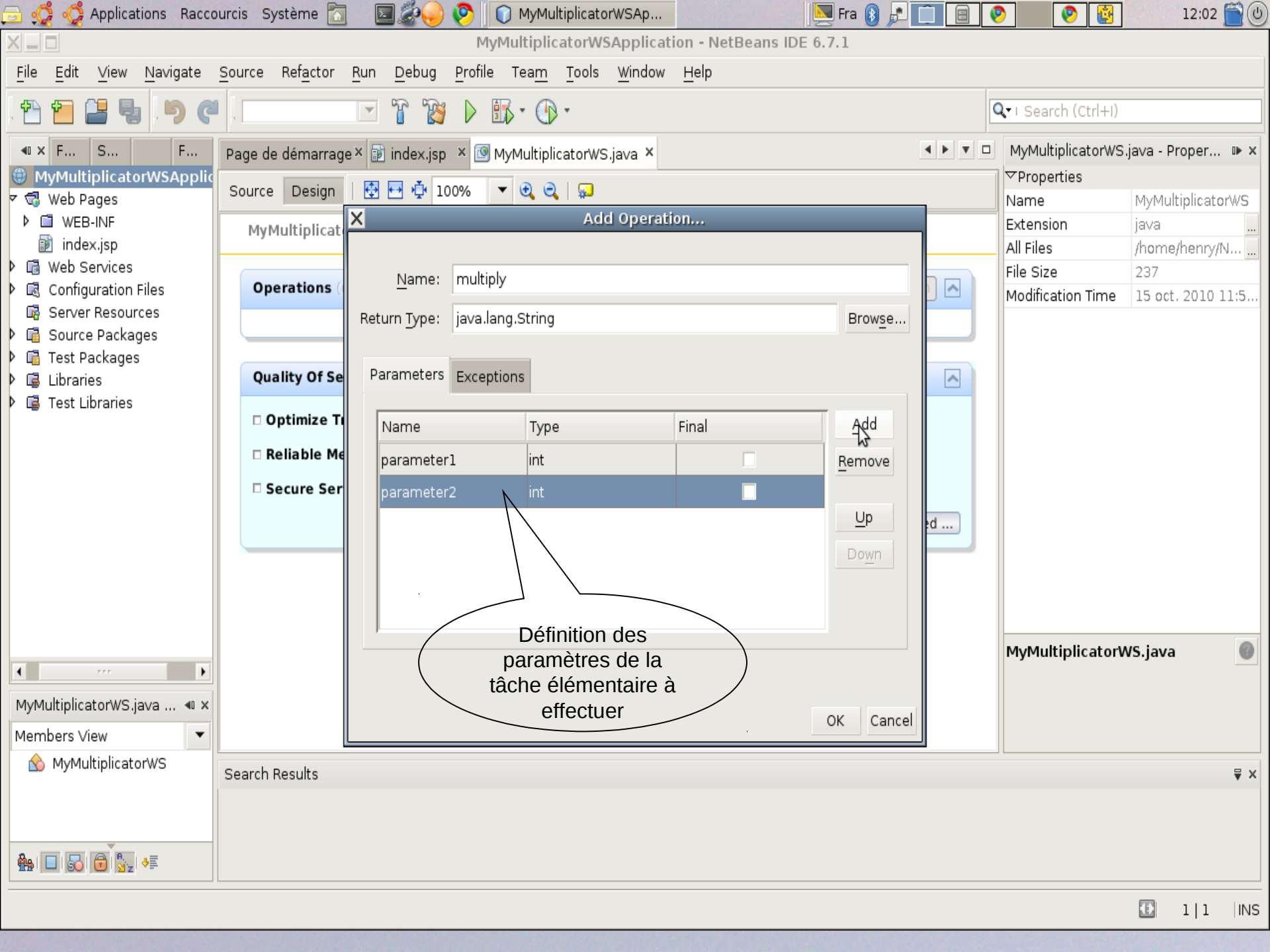
Ce qu'a effectué Netbeans à cette étape :

- Créé une structure de projet pour une application
  - placée sur le serveur d'application que vous avez choisi pour son déploiement
  - Avec une page web d'accès par défaut
    - (qui ne fait rien que vous dire bonjour)
  - Avec l'emplacement des exécutables, selon l'organisation par vous choisirez pour vos packages
- Créé des ressources de configuration
  - Essentiellement en langage XML
  - Mémorisant les chemins d'accès déduits de vos choix
    - (adresse URL du serveur)


MyMultiplicatorWSApplication - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
Projects Files Services
Start Page index.jsp
Palette
HTML
Table
Ordered List
Unordered List
Image
Link
Meta data
HTML Forms
JSP
JSF
Database
New
Build
Clean and Build
Clean
Verify
Generate Javadoc
Run
Undeploy and Deploy
Debug
Profile
Test RESTful Web Services
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
Visual Web JSF Page...
Visual Web JSF Page Fragment...
JSP...
HTML...
Servlet...
Java Class...
Java Package...
Entity Class...
Entity Classes from Database...
JSF Pages from Entity Classes...
Web Service...
Web Service from WSDL...
Web Service Client...
RESTful Web Services from Entity Classes...
RESTful Web Services from Patterns...
Other...
2008, 19:23:40
html" pageEncoding="UT
W3C//DTD HTML 4.01 Tra
tml4/loose.dtd">
Content-Type" content=
itle>
h2>
</html>
1:1 INS


New Web Service
Steps
1. Choose File Type
2. Name and Location
Name and Location
Web Service Name: MyMultiplicatorWS
Project: MyMultiplicatorWSApplication
Location: Source Packages
Package: org.me.calculator
Create Web Service from Scratch
Create Web Service from Existing Session Bean
Enterprise Bean:
Browse...
< Back
Next >
Finish
Cancel
Help
Structure de répertoires de placement des exécutables


Applications Raccourcis Système
MyMultiplicatorWSAp...
12:00
MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
MyMultiplicatorWSApplic
Web Pages
WEB-INF
index.jsp
Web Services
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
Page de démarrage
index.jsp
MyMultiplicatorWS.java
Source Design 100%
MyMultiplicatorWSService
Operations (0)
Add Operation...
Remove Operation
Quality Of Service
Optimize Transfer Of Binary Data (MTOM)
Reliable Message Delivery
Secure Service
Advanced ...
MyMultiplicatorWS.java - Proper...
Properties
Name MyMultiplicatorWS
Extension java
All Files /home/henry/N...
File Size 237
Modification Time 15 oct. 2010 11:5...
MyMultiplicatorWS.java
MyMultiplicatorWS.java ...
Members View
MyMultiplicatorWS
Search Results
Ajout d'opération
i.e. de méthode à la
classe à asservir
1 | 1
INS


Applications Raccourcis Système
MyMultiplicatorWSAp...
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MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
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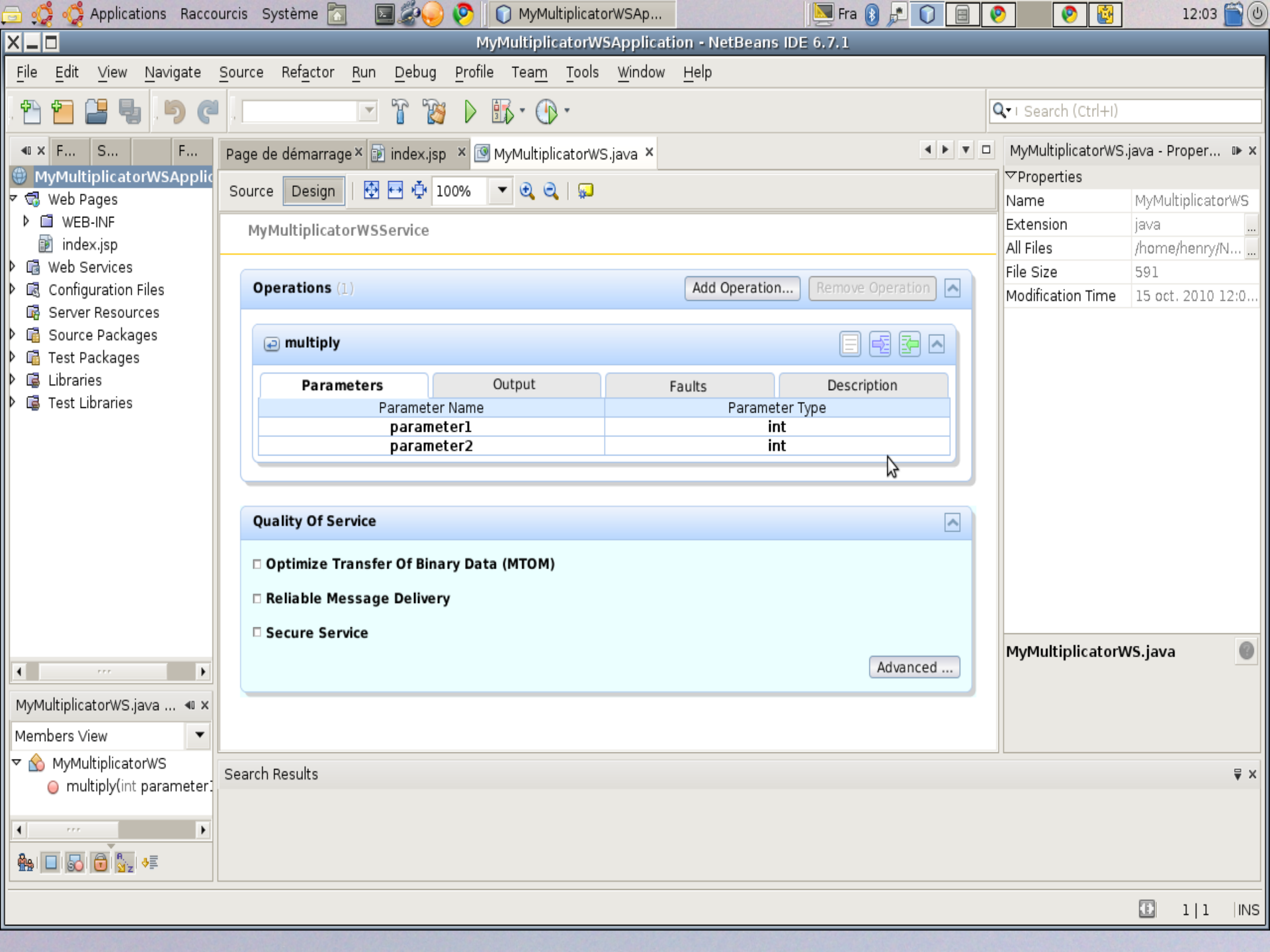
Search (Ctrl+I)
MyMultiplicatorWSApplic
Web Pages
WEB-INF
index.jsp
Web Services
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
Page de démarrage
index.jsp
MyMultiplicatorWS.java
Source Design
100%
Operations
Quality Of Se
Optimize T
Reliable Me
Secure Ser
Add Operation...
Name: multiply
Return Type: java.lang.String
Browse...
Parameters
Exceptions
Name
Type
Final
parameter1
int
parameter2
int
Add
Remove
Up
Down
Définition des paramètres de la tâche élémentaire à effectuer
OK
Cancel
MyMultiplicatorWS.java - Proper...
Properties
Name MyMultiplicatorWS
Extension java
All Files /home/henry/N...
File Size 237
Modification Time 15 oct. 2010 11:5...
MyMultiplicatorWS.java
MyMultiplicatorWS.java ...
Members View
MyMultiplicatorWS
Search Results
1 | 1
INS


Applications Raccourcis Système
MyMultiplicatorWSAp...
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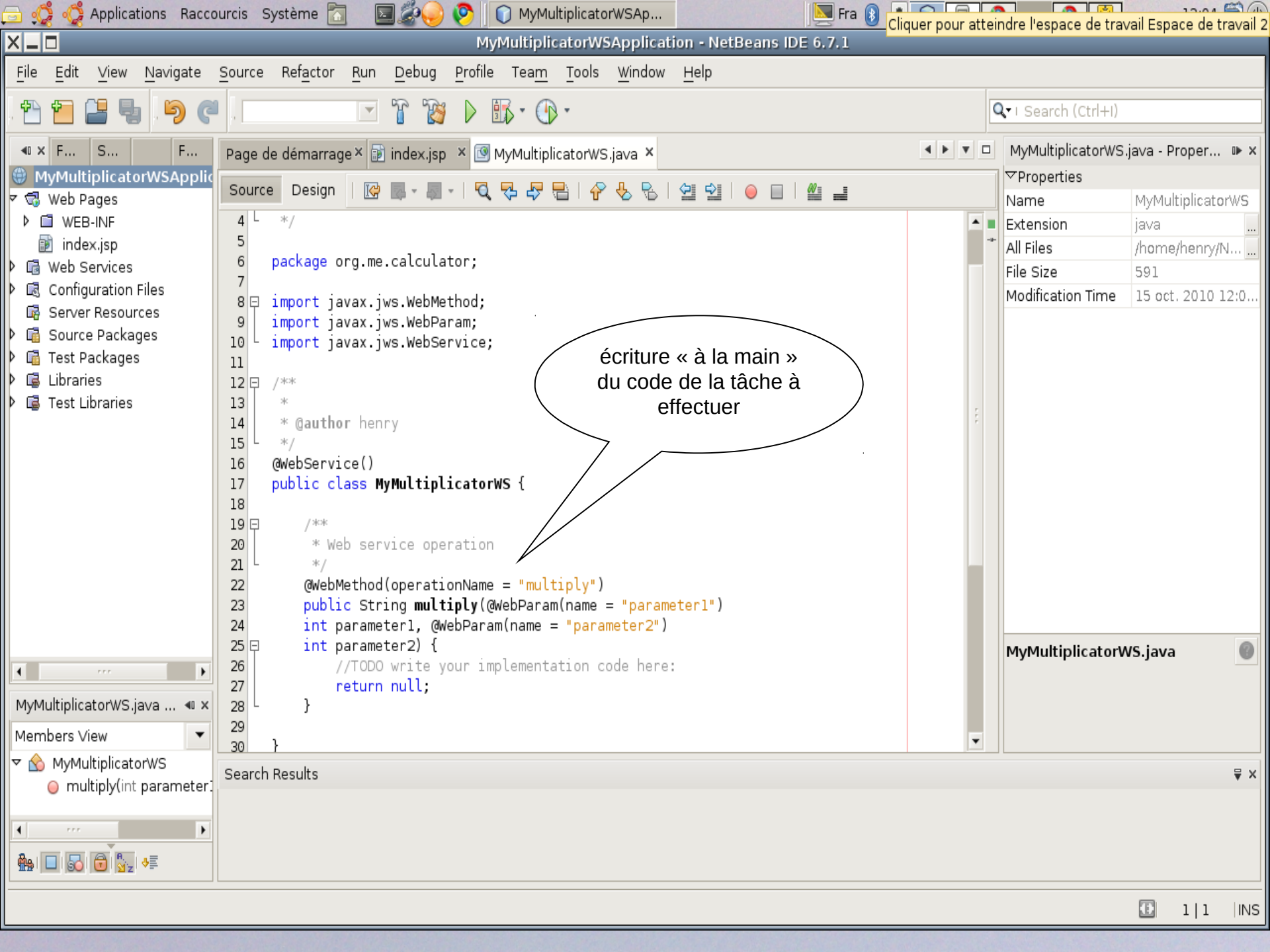
12:03
MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
F... S... F...
MyMultiplicatorWSApplic
Web Pages
WEB-INF
index.jsp
Web Services
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
Page de démarrage
index.jsp
MyMultiplicatorWS.java
Source Design 100%
MyMultiplicatorWSService
Operations (1)
Add Operation...
Remove Operation
multiply
Parameters
Output
Faults
Description
Parameter Name
Parameter Type
parameter1
int
parameter2
int
Quality Of Service
Optimize Transfer Of Binary Data (MTOM)
Reliable Message Delivery
Secure Service
Advanced ...
MyMultiplicatorWS.java - Proper...
Properties
Name
MyMultiplicatorWS
Extension
java
All Files
/home/henry/N...
File Size
591
Modification Time
15 oct. 2010 12:0...
MyMultiplicatorWS.java
MyMultiplicatorWS.java ...
Members View
MyMultiplicatorWS
multiply(int parameter1
Search Results
1 | 1
INS


Applications Raccourcis Système
MyMultiplicatorWSAp...
Fra
Cliquer pour atteindre l'espace de travail Espace de travail 2
MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Search (Ctrl+I)
MyMultiplicatorWSApplic
Web Pages
WEB-INF
index.jsp
Web Services
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
Page de démarrage
index.jsp
MyMultiplicatorWS.java
Source Design
4 */
5
6 package org.me.calculator;
7
8 import javax.jws.WebMethod;
9 import javax.jws.WebParam;
10 import javax.jws.WebService;
11
12 /**
13 *
14 * @author henry
15 */
16 @WebService()
17 public class MyMultiplicatorWS {
18
19 /**
20 * Web service operation
21 */
22 @WebMethod(operationName = "multiply")
23 public String multiply(@WebParam(name = "parameter1")
24 int parameter1, @WebParam(name = "parameter2")
25 int parameter2) {
26 //TODO write your implementation code here:
27 return null;
28 }
29
30 }
écriture « à la main » du code de la tâche à effectuer
MyMultiplicatorWS.java - Proper...
Properties
Name MyMultiplicatorWS
Extension java
All Files /home/henry/N...
File Size 591
Modification Time 15 oct. 2010 12:0...
MyMultiplicatorWS.java
MyMultiplicatorWS.java ...
Members View
MyMultiplicatorWS
multiply(int parameter1
Search Results
1 | 1
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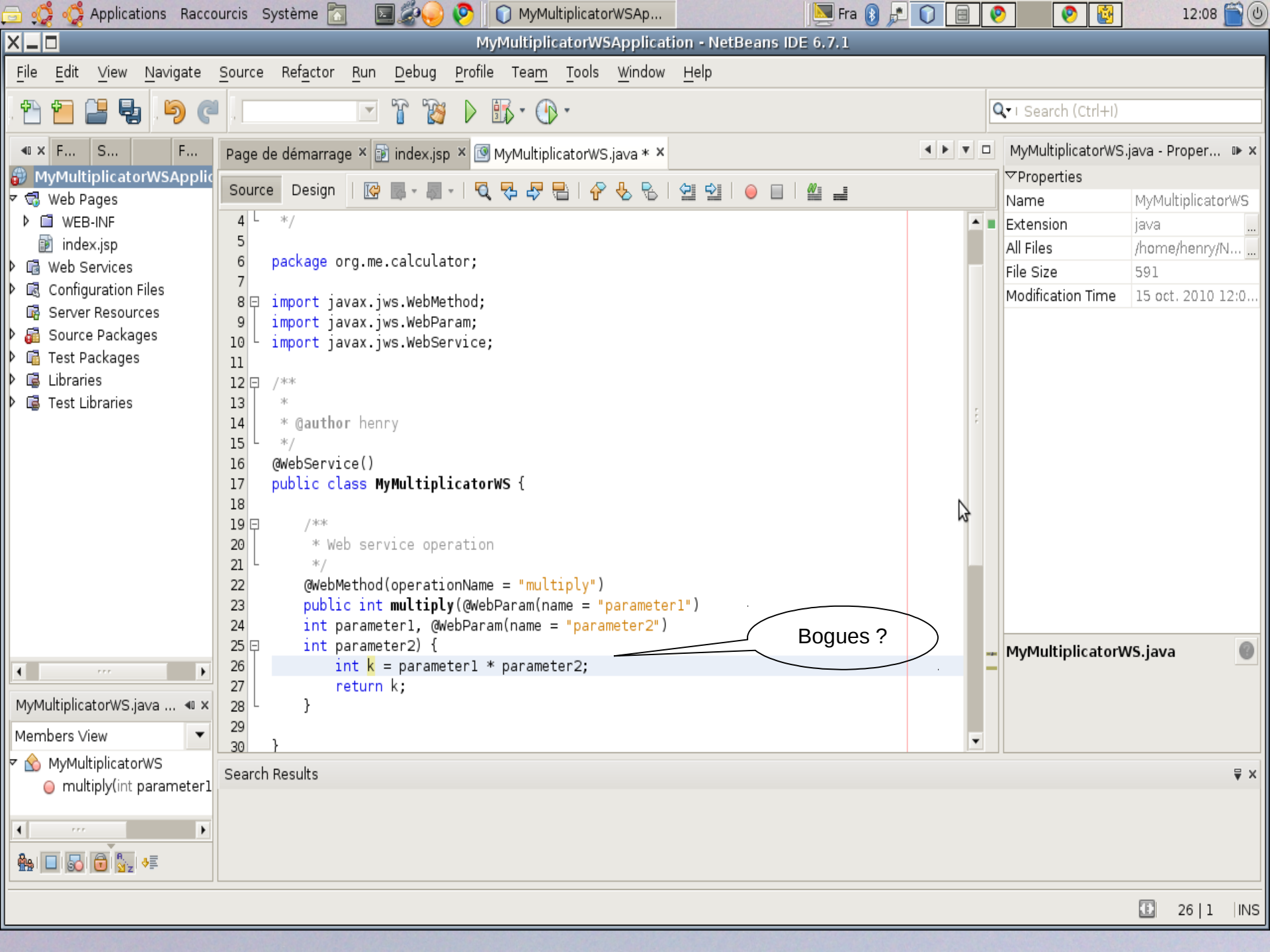
Applications Raccourcis Système
MyMultiplicatorWSAp...
Fra
12:08
MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
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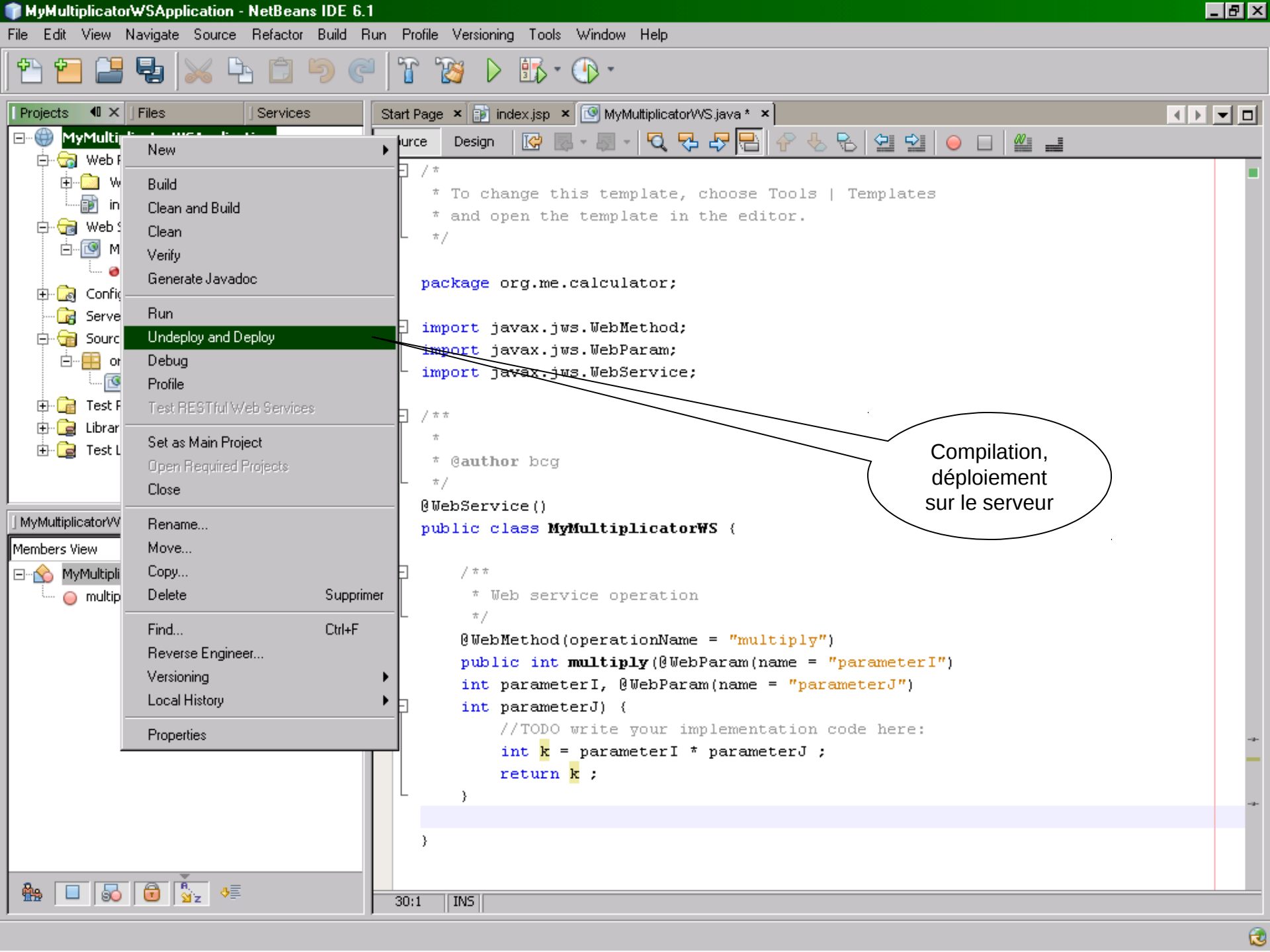
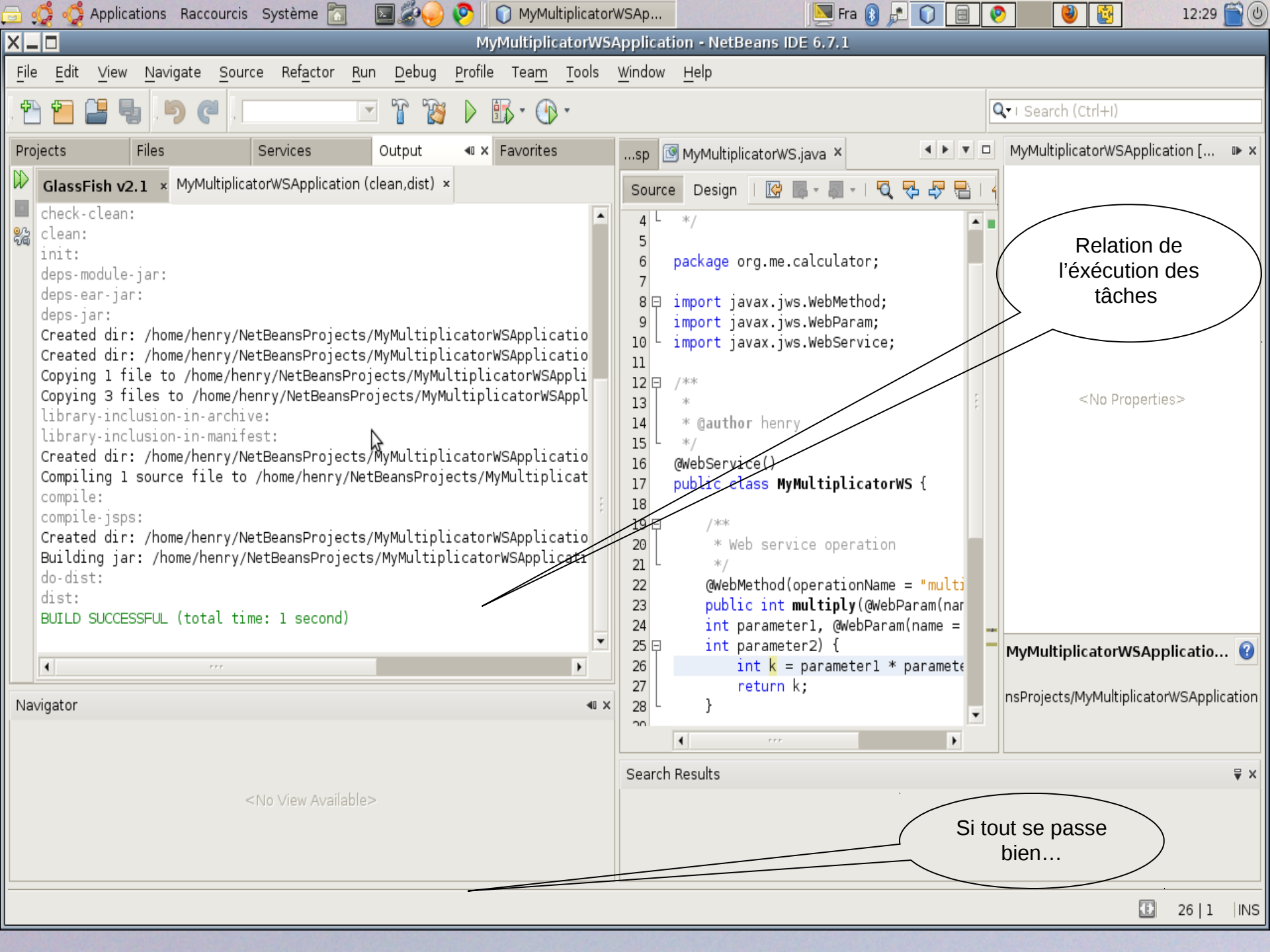
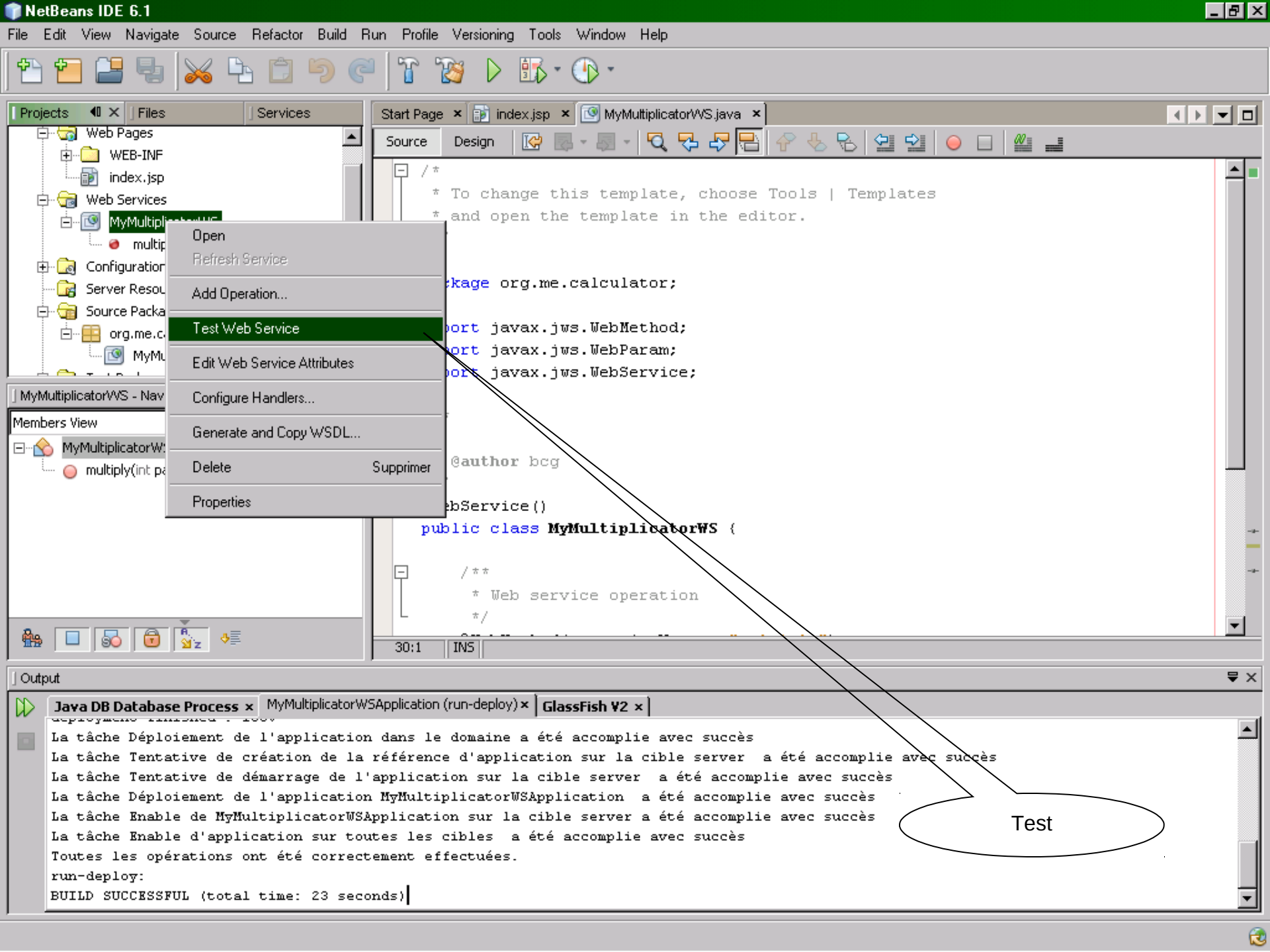
Search (Ctrl+I)
MyMultiplicatorWSApplic
Web Pages
WEB-INF
index.jsp
Web Services
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
Page de démarrage
index.jsp
MyMultiplicatorWS.java *
Source Design
4 */
5
6 package org.me.calculator;
7
8 import javax.jws.WebMethod;
9 import javax.jws.WebParam;
10 import javax.jws.WebService;
11
12 /**
13 *
14 * @author henry
15 */
16 @WebService()
17 public class MyMultiplicatorWS {
18
19 /**
20 * Web service operation
21 */
22 @WebMethod(operationName = "multiply")
23 public int multiply(@WebParam(name = "parameter1")
24 int parameter1, @WebParam(name = "parameter2")
25 int parameter2) {
26 int k = parameter1 * parameter2;
27 return k;
28 }
29
30 }
Bogues ?
MyMultiplicatorWS.java - Proper...
Properties
Name MyMultiplicatorWS
Extension java
All Files /home/henry/N...
File Size 591
Modification Time 15 oct. 2010 12:0...
MyMultiplicatorWS.java
MyMultiplicatorWS.java ...
Members View
MyMultiplicatorWS
multiply(int parameter1
Search Results
26 | 1
INS

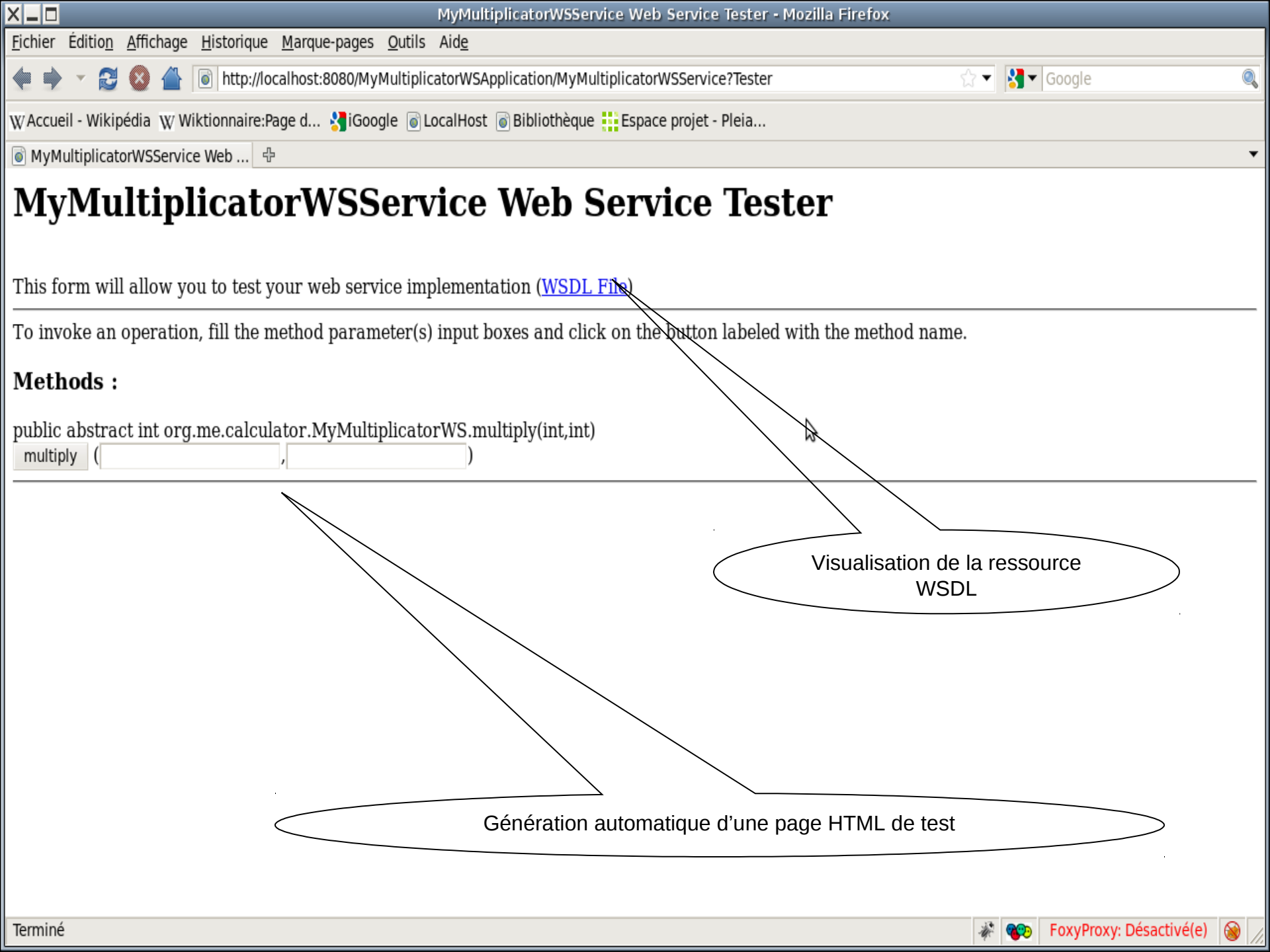

MyMultiplicatorWSApplication - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
Projects
Files
Services
Start Page
index.jsp
MyMultiplicatorWS.java *
Source
Design
New
Build
Clean and Build
Clean
Verify
Generate Javadoc
Run
Undeploy and Deploy
Debug
Profile
Test RESTful Web Services
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete
Supprimer
Find...
Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
Members View
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
package org.me.calculator;
import javax.jws.WebMethod;
import javax.jws.WebParam;
import javax.jws.WebService;
/**
*
* @author bcg
*/
@WebService()
public class MyMultiplicatorWS {
/**
* Web service operation
*/
@WebMethod(operationName = "multiply")
public int multiply(@WebParam(name = "parameterI")
int parameterI, @WebParam(name = "parameterJ")
int parameterJ) {
//TODO write your implementation code here:
int k = parameterI * parameterJ ;
return k ;
}
}
Compilation, déploiement sur le serveur
30:1
INS


MyMultiplicatorWSApplication - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Projects Files Services Output Favorites
GlassFish v2.1
MyMultiplicatorWSApplication (clean,dist)
check-clean:
clean:
init:
deps-module-jar:
deps-ear-jar:
deps-jar:
Created dir: /home/henry/NetBeansProjects/MyMultiplicatorWSApplicatio
Created dir: /home/henry/NetBeansProjects/MyMultiplicatorWSApplicatio
Copying 1 file to /home/henry/NetBeansProjects/MyMultiplicatorWSAppli
Copying 3 files to /home/henry/NetBeansProjects/MyMultiplicatorWSAppl
library-inclusion-in-archive:
library-inclusion-in-manifest:
Created dir: /home/henry/NetBeansProjects/MyMultiplicatorWSApplicatio
Compiling 1 source file to /home/henry/NetBeansProjects/MyMultiplicat
compile:
compile-jsps:
Created dir: /home/henry/NetBeansProjects/MyMultiplicatorWSApplicatio
Building jar: /home/henry/NetBeansProjects/MyMultiplicatorWSApplicati
do-dist:
dist:
BUILD SUCCESSFUL (total time: 1 second)
MyMultiplicatorWS.java
Source Design
4 */
5
6 package org.me.calculator;
7
8 import javax.jws.WebMethod;
9 import javax.jws.WebParam;
10 import javax.jws.WebService;
11
12 /**
13 *
14 * @author henry
15 */
16 @WebService()
17 public class MyMultiplicatorWS {
18
19 /**
20 * Web service operation
21 */
22 @WebMethod(operationName = "multi
23 public int multiply(@WebParam(nar
24 int parameter1, @WebParam(name =
25 int parameter2) {
26 int k = parameter1 * paramete
27 return k;
28 }
MyMultiplicatorWSApplication [...
<No Properties>
MyMultiplicatorWSApplicatio...
nsProjects/MyMultiplicatorWSApplication
Navigator
<No View Available>
Search Results
Relation de l'éxécution des tâches
Si tout se passe bien…
26 | 1 INS

Ce qu’a effectué Netbeans à cette étape :

- La compilation du code de la classe Java du service,
- Le déploiement de l’exécutable sur le serveur d’application
- Un enregistrement des paramètres du service à exposer par le serveur dans une ressource WSDL
- Un test élémentaire de démarrage


NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
Projects Files Services
Web Pages
WEB-INF
index.jsp
Web Services
Open
Refresh Service
Add Operation...
Test Web Service
Edit Web Service Attributes
Configure Handlers...
Generate and Copy WSDL...
Delete Supprimer
Properties
Start Page index.jsp MyMultiplicatorWS.java
Source Design
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
kage org.me.calculator;
ort javax.jws.WebMethod;
ort javax.jws.WebParam;
ort javax.jws.WebService;
@author bcg
ebService()
public class MyMultiplicatorWS {
/**
* Web service operation
*/
30:1 INS
Output
Java DB Database Process MyMultiplicatorWSApplication (run-deploy) GlassFish V2
La tâche Déploiement de l'application dans le domaine a été accomplie avec succès
La tâche Tentative de création de la référence d'application sur la cible server a été accomplie avec succès
La tâche Tentative de démarrage de l'application sur la cible server a été accomplie avec succès
La tâche Déploiement de l'application MyMultiplicatorWSApplication a été accomplie avec succès
La tâche Enable de MyMultiplicatorWSApplication sur la cible server a été accomplie avec succès
La tâche Enable d'application sur toutes les cibles a été accomplie avec succès
Toutes les opérations ont été correctement effectuées.
run-deploy:
BUILD SUCCESSFUL (total time: 23 seconds)
Test


MyMultiplicatorWSService Web Service Tester - Mozilla Firefox
Fichier Édition Affichage Historique Marque-pages Outils Aide
http://localhost:8080/MyMultiplicatorWSApplication/MyMultiplicatorWSService?Tester
Google
Accueil - Wikipédia
Wiktionnaire:Page d...
iGoogle
LocalHost
Bibliothèque
Espace projet - Pleia...
MyMultiplicatorWSService Web ...
MyMultiplicatorWSService Web Service Tester
This form will allow you to test your web service implementation (WSDL File)
To invoke an operation, fill the method parameter(s) input boxes and click on the button labeled with the method name.
Methods :
public abstract int org.me.calculator.MyMultiplicatorWS.multiply(int,int)
multiply
Visualisation de la ressource WSDL
Génération automatique d'une page HTML de test
Terminé
FoxyProxy: Désactivé(e)


Mozilla Firefox
Fichier Édition Affichage Historique Marque-pages Outils ?
All Video Tutorials and Demos of NetBea...
Accessing Web Services from a Visual ...
http://localhos_WSService?WSDL
<!--
Published by JAX-WS RI at http://jax-ws.dev.java.net. RI's version is JAX-WS RI 2.1.3.1-hudson-417-SNAPSHOT.
-->
<!--
Generated by JAX-WS RI at http://jax-ws.dev.java.net. RI's version is JAX-WS RI 2.1.3.1-hudson-417-SNAPSHOT.
-->
<definitions targetNamespace="http://calculator.me.org/" name="MyMultiplicatorWSService">
<types>
<xsd:schema>
<xsd:import namespace="http://calculator.me.org/" schemaLocation="http://localhost:8080/MyMultiplicatorWSApplication/MyMultiplicatorWSService?xsd=1"/>
</xsd:schema>
</types>
<message name="multiply">
<part name="parameters" element="tns:multiply"/>
</message>
<message name="multiplyResponse">
<part name="parameters" element="tns:multiplyResponse"/>
</message>
<portType name="MyMultiplicatorWS">
<operation name="multiply">
<input message="tns:multiply"/>
<output message="tns:multiplyResponse"/>
</operation>
</portType>
<binding name="MyMultiplicatorWSPortBinding" type="tns:MyMultiplicatorWS">
<soap:binding transport="http://schemas.xmlsoap.org/soap/http" style="document"/>
<operation name="multiply">
<soap:operation soapAction=""/>
<input>
<soap:body use="literal"/>
</input>
<output>
<soap:body use="literal"/>
</output>
</operation>
</binding>
<service name="MyMultiplicatorWSService">
<port name="MyMultiplicatorWSPort" binding="tns:MyMultiplicatorWSPortBinding">
<soap:address location="http://localhost:8080/MyMultiplicatorWSApplication/MyMultiplicatorWSService"/>
</port>
</service>
</definitions>
Visualisation de la ressource WSDL
Messages
Typage de Port d'accès au service
Affectation des messages
Accrochage de l'opération 'multiply'
Définition du service avec instanciation
de port, et localisation du service

multiply Appel de méthode

Page de Résultat standard généré par le test

Method parameter(s)

Type	Value
int	3
int	7

Rappel des choix de valeurs

Méthode retournée

int : "**21**"

Résultat

Demande SOAP

```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
    <S:Header/>
    <S:Body>
        <ns2:multiply xmlns:ns2="http://calculator.me.org/">
            <parameterI>3</parameterI>
            <parameterJ>7</parameterJ>
        </ns2:multiply>
    </S:Body>
</S:Envelope>
```

Message XML SOAP envoyé

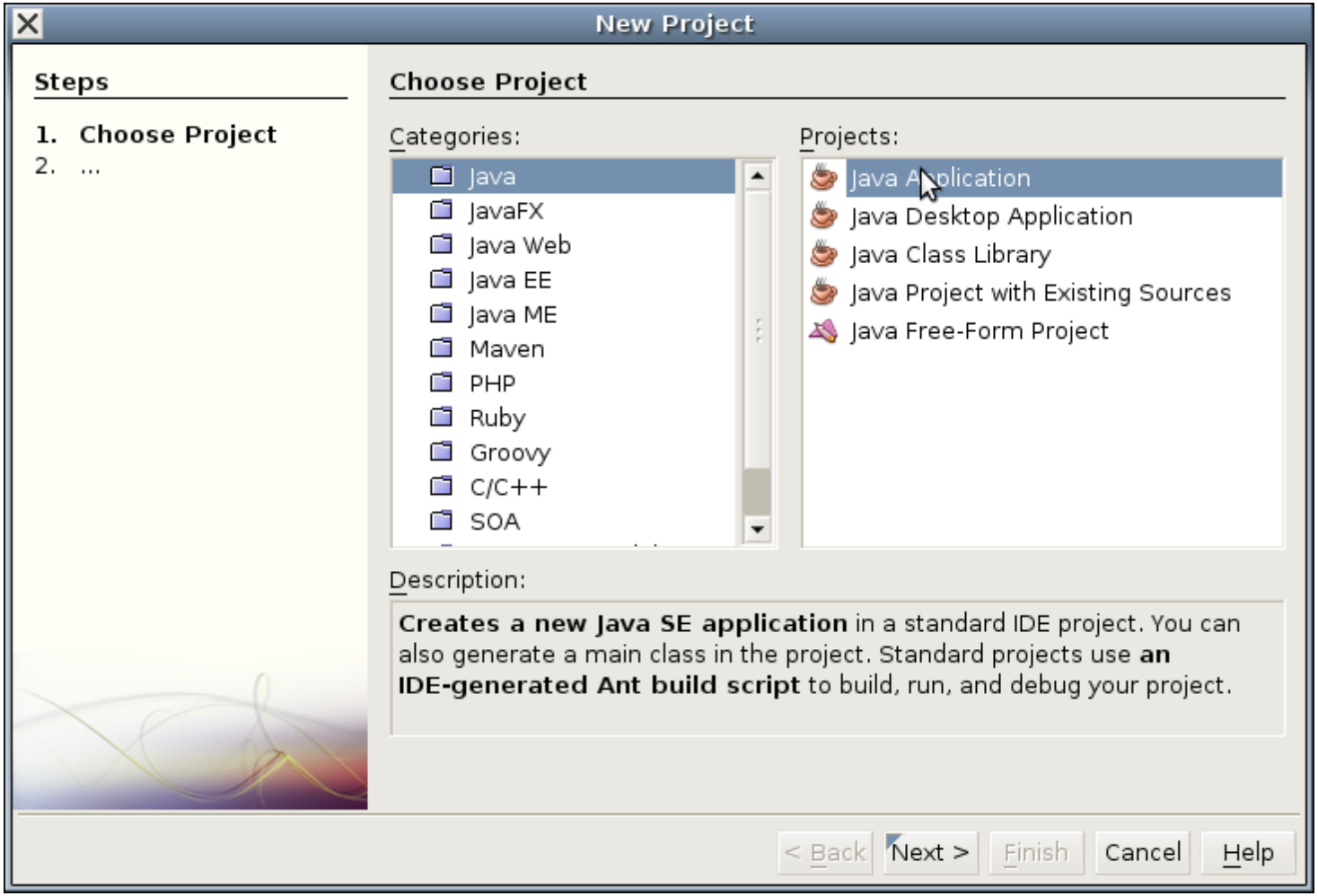
Réponse SOAP

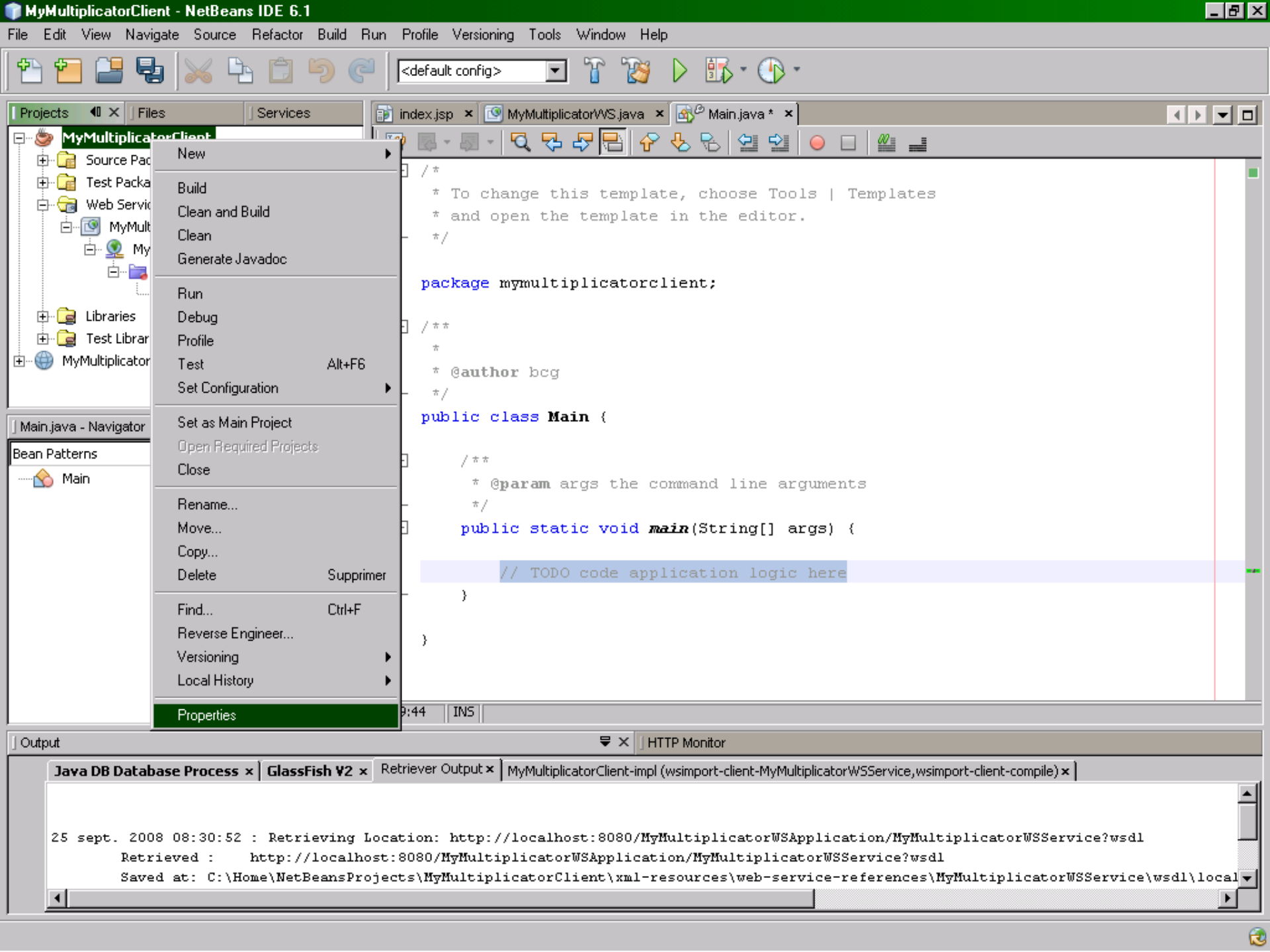
```
<?xml version="1.0" encoding="UTF-8"?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
    <S:Body>
        <ns2:multiplyResponse xmlns:ns2="http://calculator.me.org/">
            <return>21</return>
        </ns2:multiplyResponse>
    </S:Body>
</S:Envelope>
```

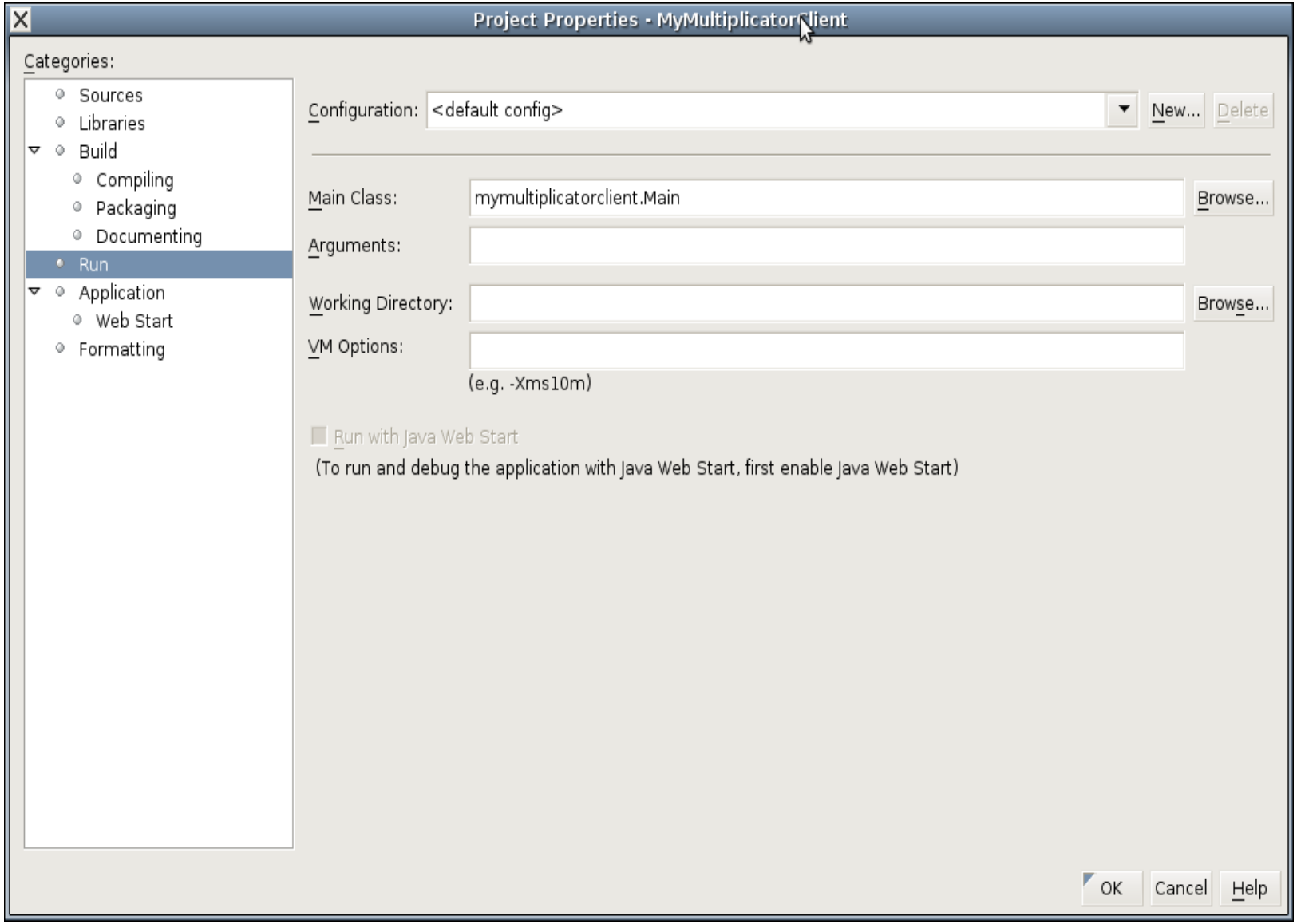
Message XML SOAP reçu

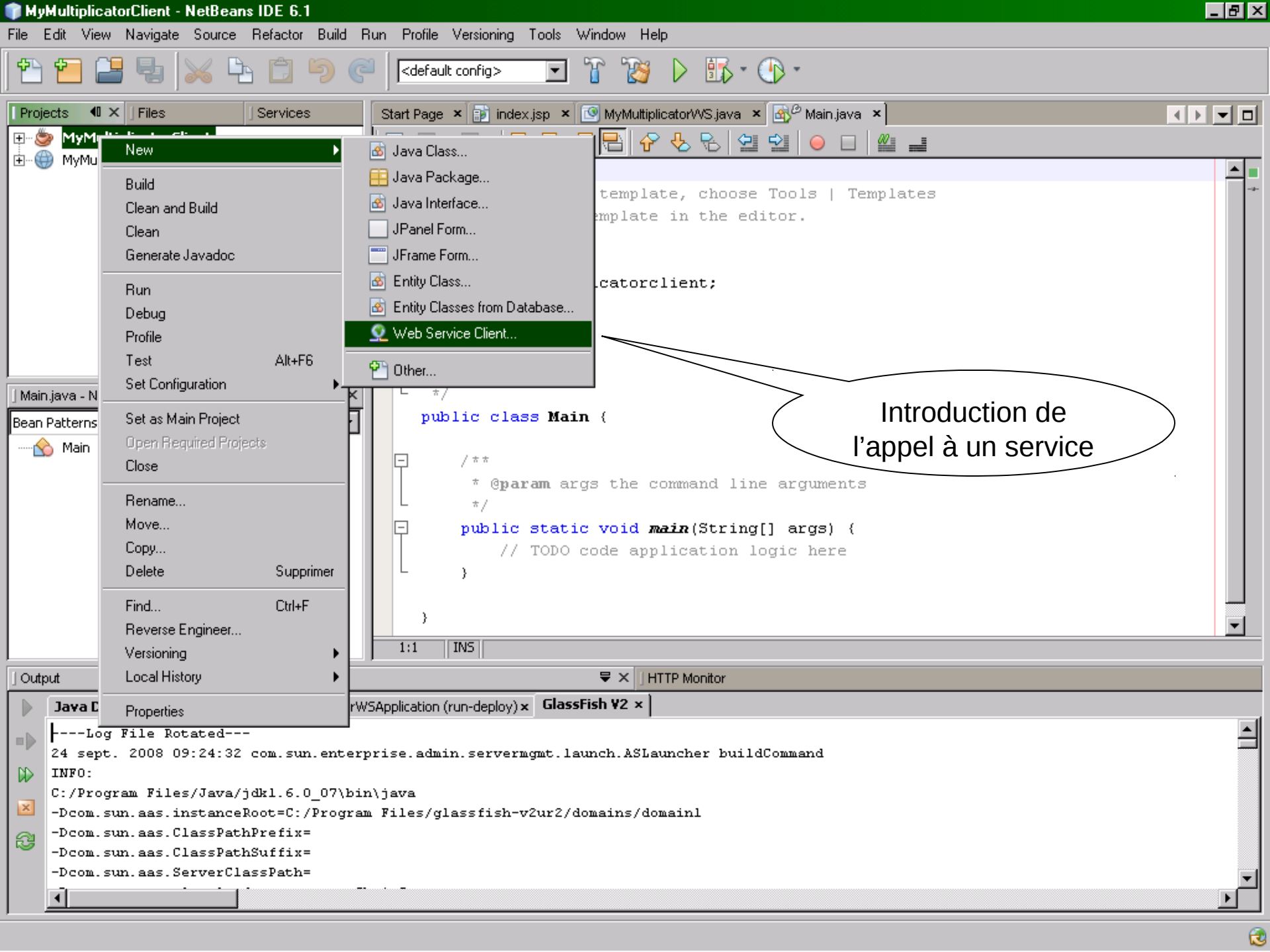
Création d’un premier client pour un service

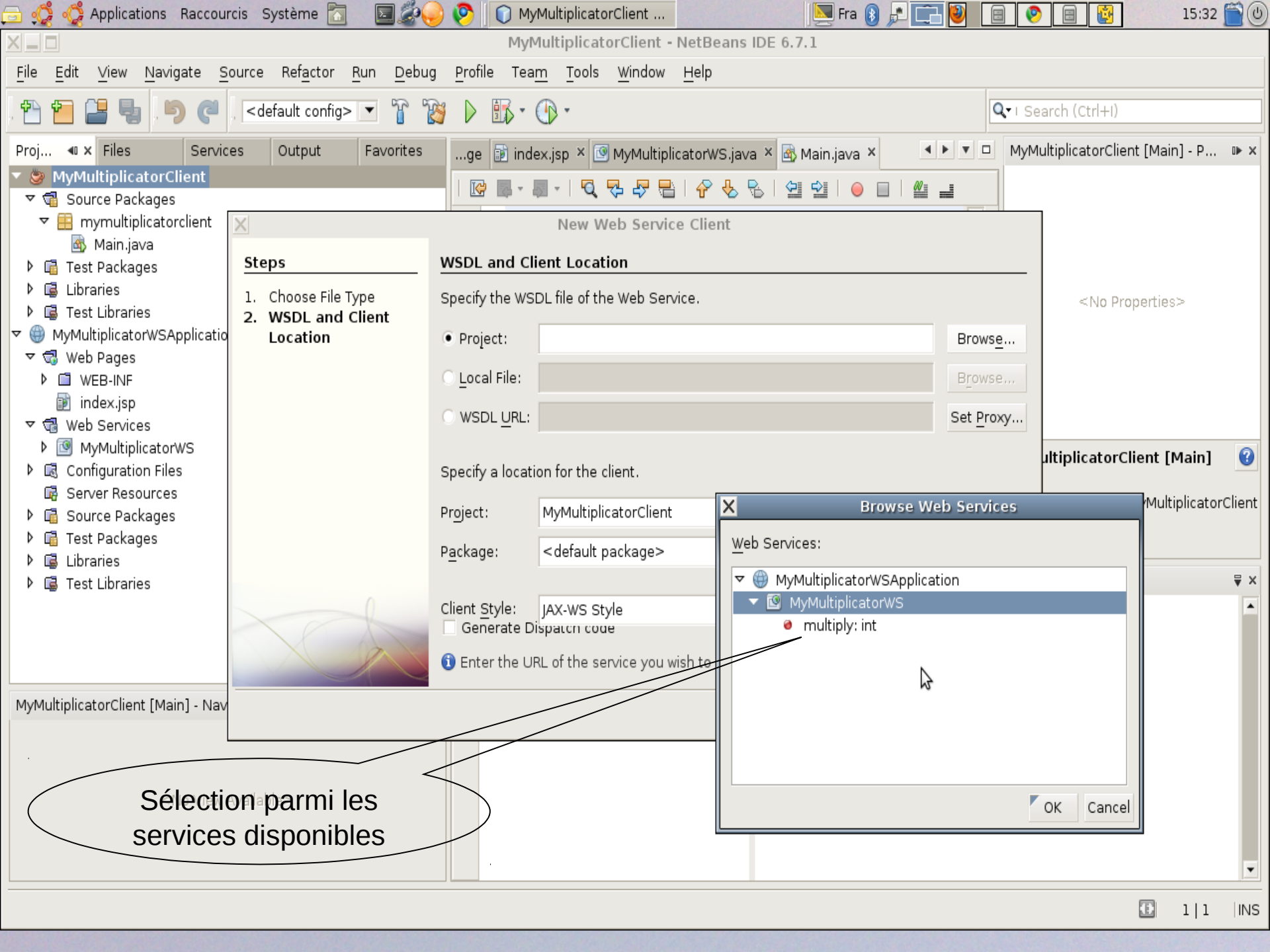
Une application Java utilisant un service Web

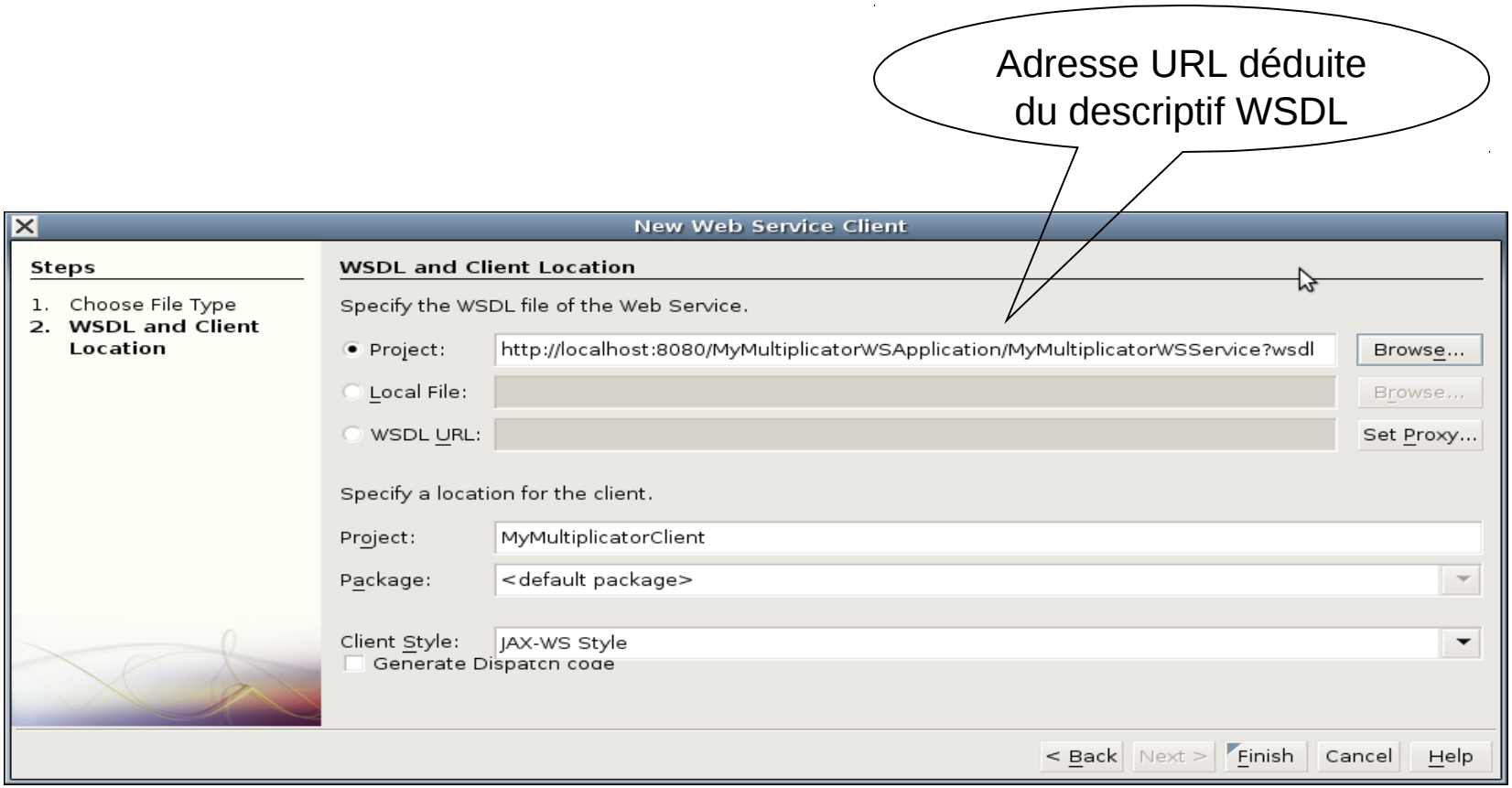

New Project
Steps
1. Choose Project
2. ...
Choose Project
Categories:
Java
JavaFX
Java Web
Java EE
Java ME
Maven
PHP
Ruby
Groovy
C/C++
SOA
Projects:
Java Application
Java Desktop Application
Java Class Library
Java Project with Existing Sources
Java Free-Form Project
Description:
Creates a new Java SE application in a standard IDE project. You can also generate a main class in the project. Standard projects use an IDE-generated Ant build script to build, run, and debug your project.
< Back
Next >
Finish
Cancel
Help

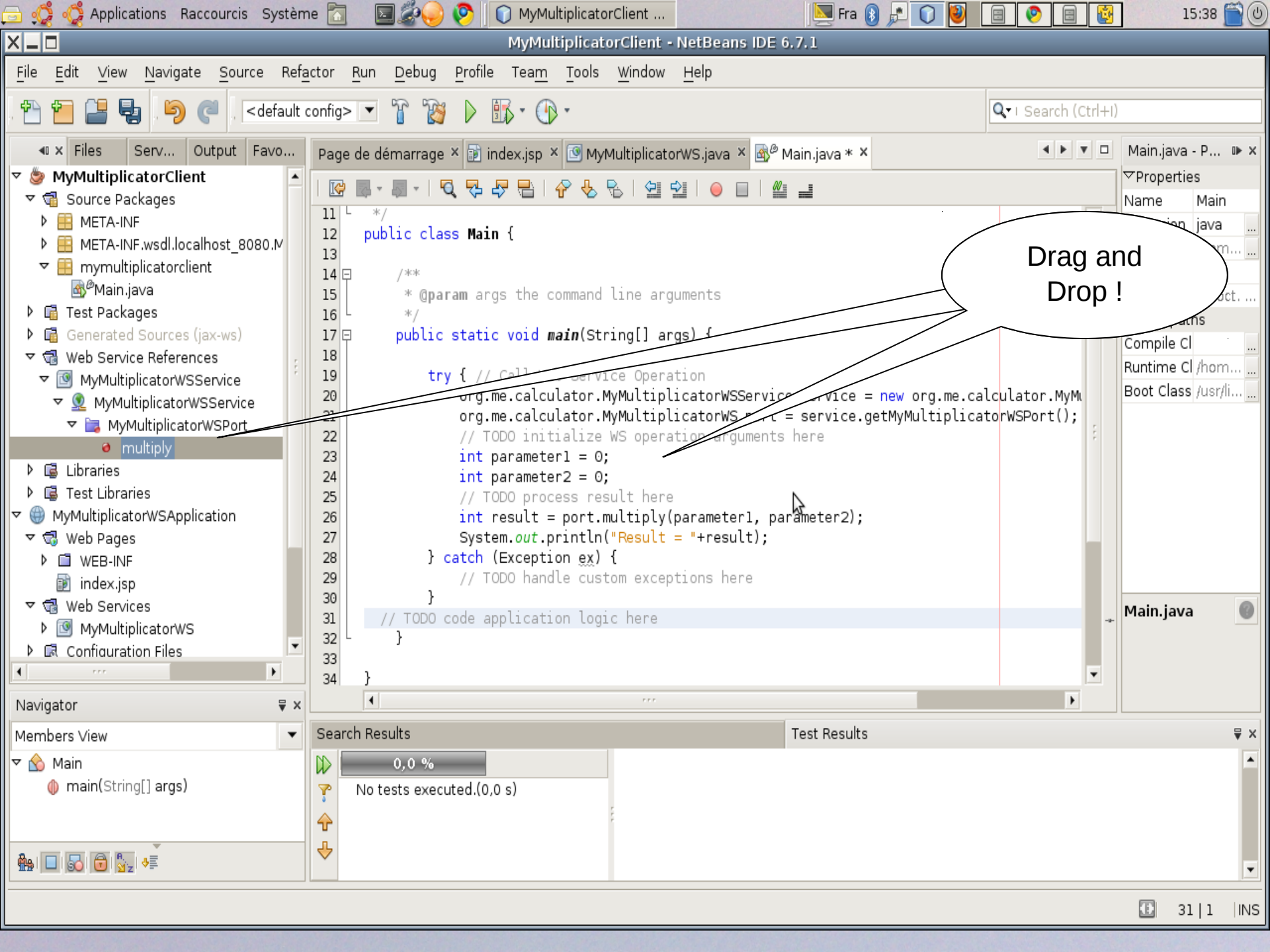

MyMultiplicatorClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
<default config>
Projects Files Services
MyMultiplicatorClient
Source Pac
Test Packa
Web Servic
MyMult
My
Libraries
Test Librar
MyMultiplicator
New
Build
Clean and Build
Clean
Generate Javadoc
Run
Debug
Profile
Test Alt+F6
Set Configuration
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
Main.java - Navigator
Bean Patterns
Main
index.jsp
MyMultiplicatorWS.java
Main.java *
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
package mymultiplicatorclient;
/**
*
* @author bcg
*/
public class Main {
/**
* @param args the command line arguments
*/
public static void main(String[] args) {
// TODO code application logic here
}
}
9:44 INS
Output
HTTP Monitor
Java DB Database Process
GlassFish V2
Retriever Output
MyMultiplicatorClient-impl (wsimport-client-MyMultiplicatorWSService,wsimport-client-compile)
25 sept. 2008 08:30:52 : Retrieving Location: http://localhost:8080/MyMultiplicatorWSApplication/MyMultiplicatorWSService?wsdl
Retrieved : http://localhost:8080/MyMultiplicatorWSApplication/MyMultiplicatorWSService?wsdl
Saved at: C:\Home\NetBeansProjects\MyMultiplicatorClient\xml-resources\web-service-references\MyMultiplicatorWSService\wsdl\local

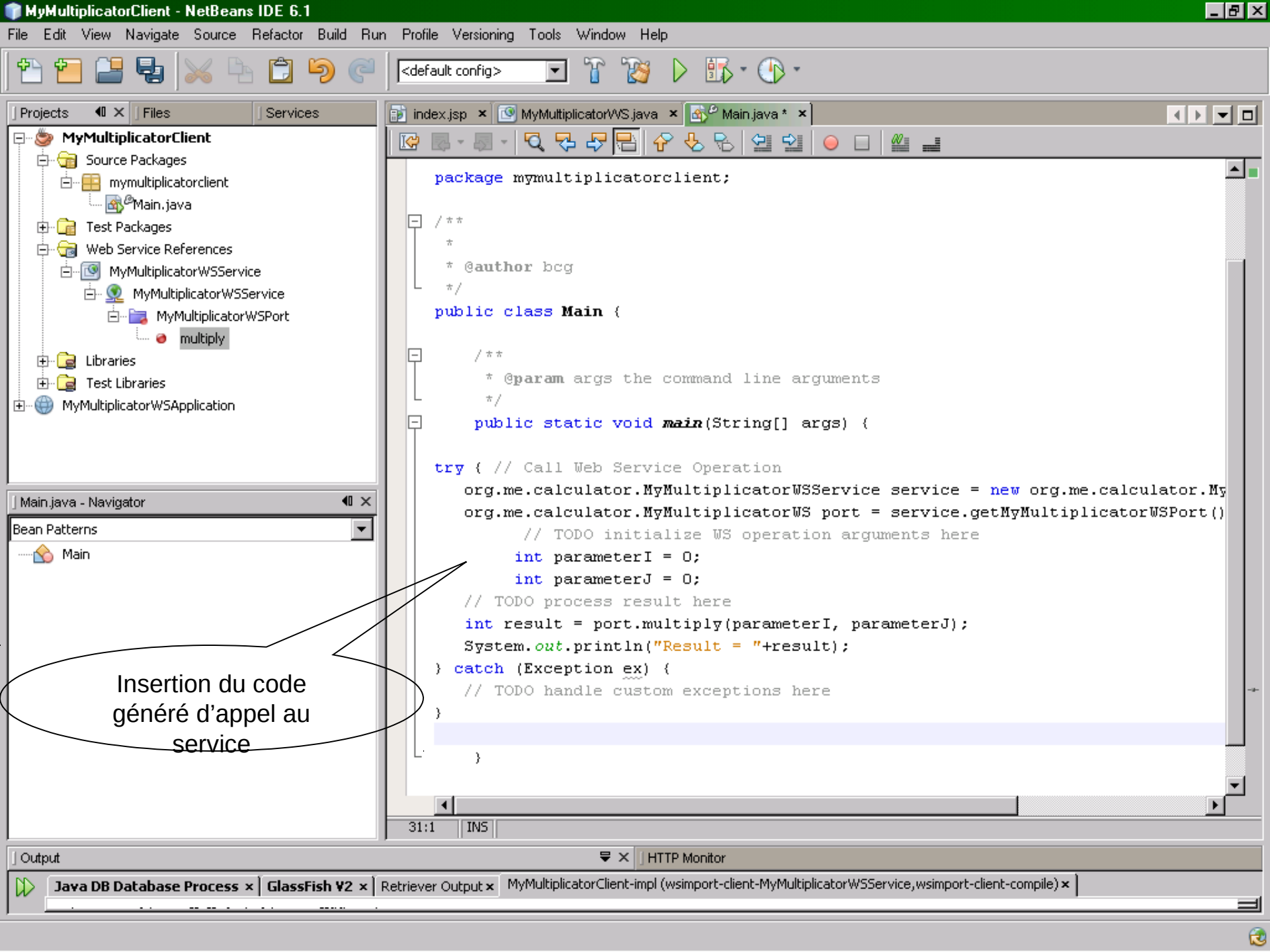

Project Properties - MyMultiplicatorClient
Categories:
Sources
Libraries
Build
Compiling
Packaging
Documenting
Run
Application
Web Start
Formatting
Configuration: <default config>
New...
Delete
Main Class: mymultiplicatorclient.Main
Browse...
Arguments:
Working Directory:
Browse...
VM Options:
(e.g. -Xms10m)
Run with Java Web Start
(To run and debug the application with Java Web Start, first enable Java Web Start)
OK
Cancel
Help

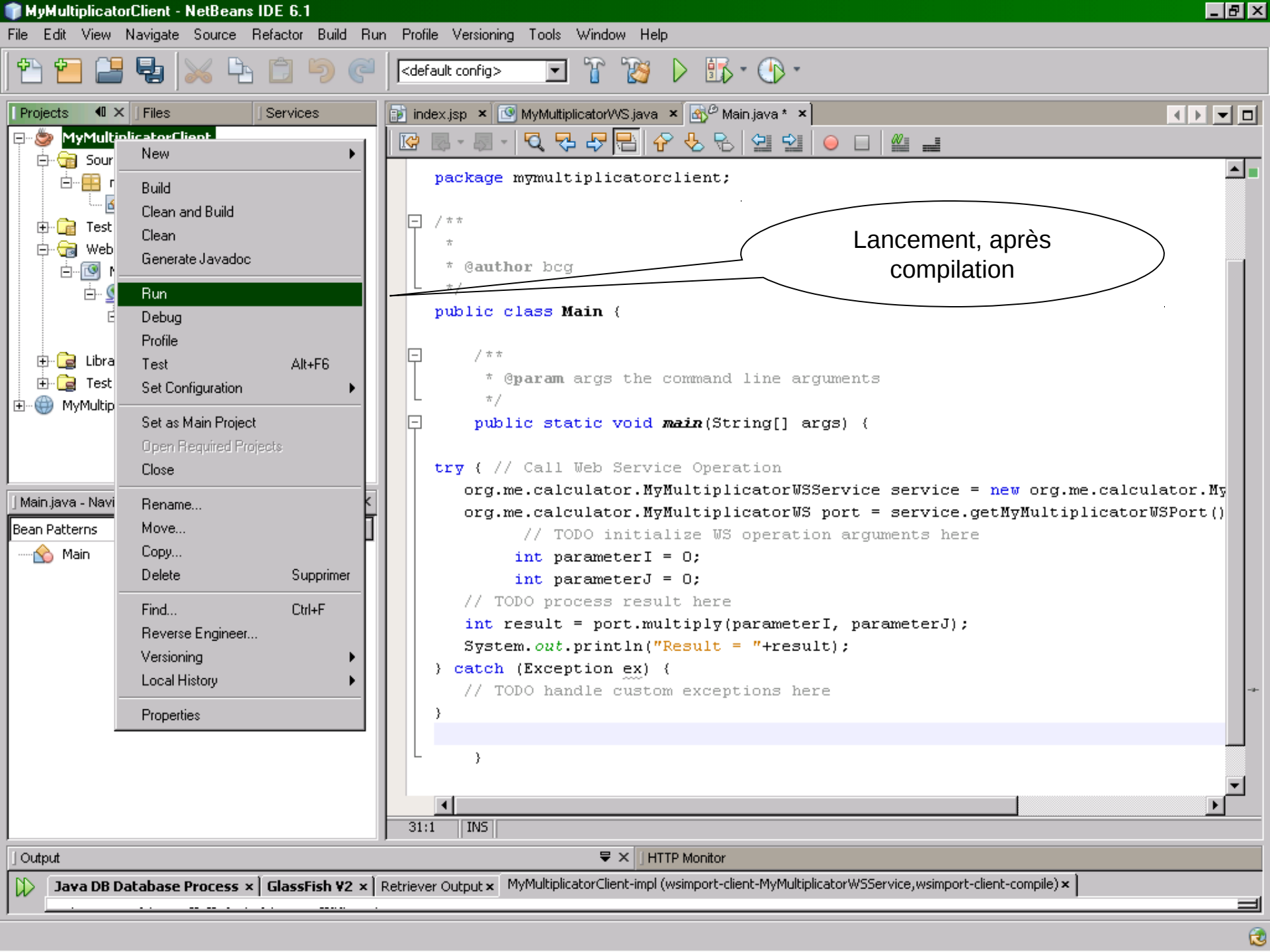

MyMultiplicatorClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
<default config>
Projects Files Services
Start Page index.jsp MyMultiplicatorWS.java Main.java
New
Java Class...
Java Package...
Java Interface...
JPanel Form...
JFrame Form...
Entity Class...
Entity Classes from Database...
Web Service Client...
Other...
Build
Clean and Build
Clean
Generate Javadoc
Run
Debug
Profile
Test Alt+F6
Set Configuration
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
template, choose Tools | Templates
mplate in the editor.
catorclient;
public class Main {
/**
* @param args the command line arguments
*/
public static void main(String[] args) {
// TODO code application logic here
}
}
1:1 INS
Introduction de
l'appel à un service
Output
HTTP Monitor
GlassFish V2
---Log File Rotated---
24 sept. 2008 09:24:32 com.sun.enterprise.admin.servermgmt.launch.ASLauncher buildCommand
INFO:
C:/Program Files/Java/jdk1.6.0_07\bin\java
-Dcom.sun.aas.instanceRoot=C:/Program Files/glassfish-v2ur2/domains/domain1
-Dcom.sun.aas.ClassPathPrefix=
-Dcom.sun.aas.ClassPathSuffix=
-Dcom.sun.aas.ServerClassPath=

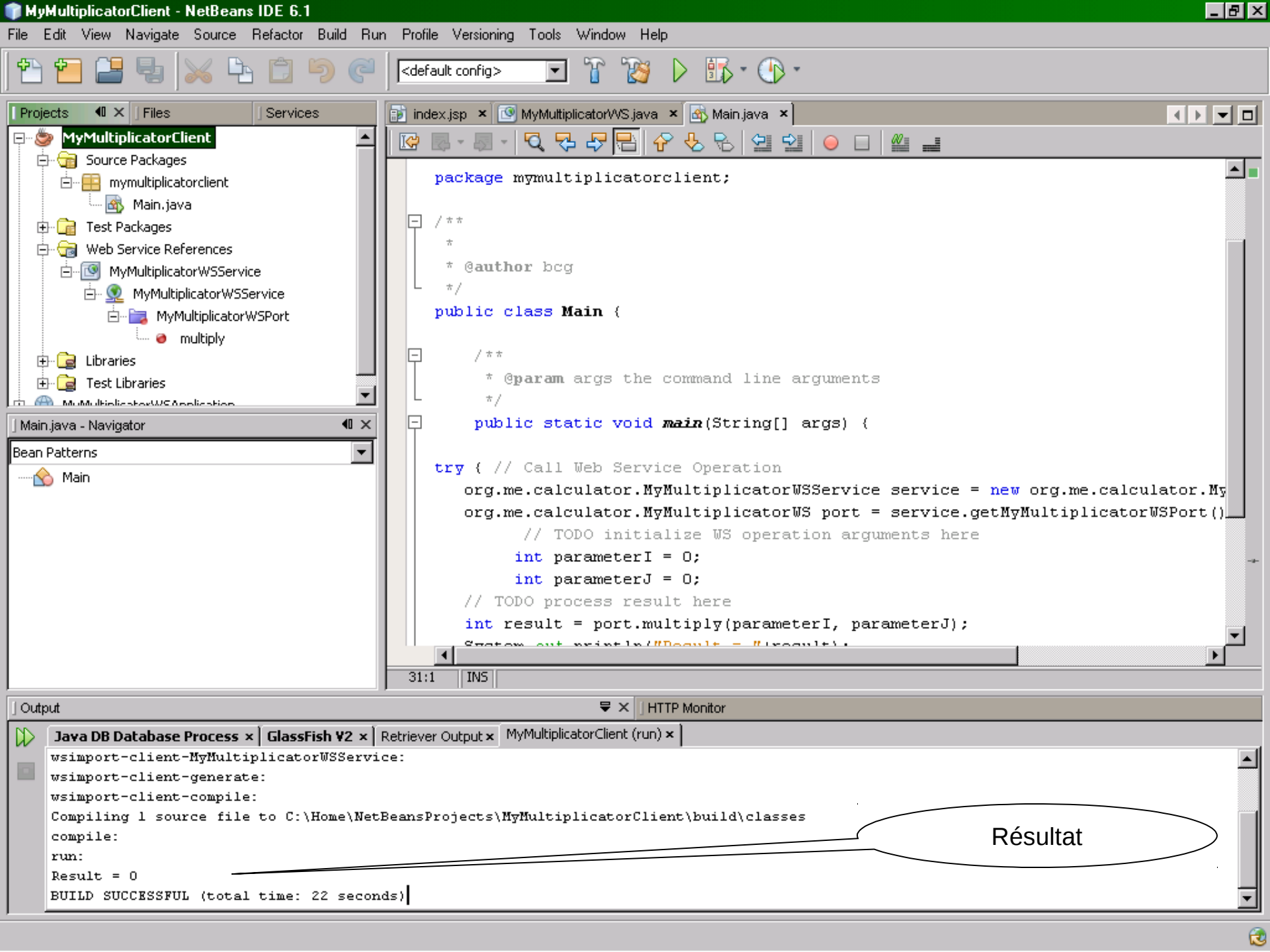

Applications Raccourcis Système
MyMultiplicatorClient ...
15:32
MyMultiplicatorClient - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Search (Ctrl+I)
Files Services Output Favorites
MyMultiplicatorClient
Source Packages
mymultiplicatorclient
Main.java
Test Packages
Libraries
Test Libraries
MyMultiplicatorWSApplicatio
Web Pages
WEB-INF
index.jsp
Web Services
MyMultiplicatorWS
Configuration Files
Server Resources
Source Packages
Test Packages
Libraries
Test Libraries
index.jsp
MyMultiplicatorWS.java
Main.java
MyMultiplicatorClient [Main] - P...
<No Properties>
New Web Service Client
Steps
1. Choose File Type
2. WSDL and Client Location
WSDL and Client Location
Specify the WSDL file of the Web Service.
Project:
Browse...
Local File:
Browse...
WSDL URL:
Set Proxy...
Specify a location for the client.
Project: MyMultiplicatorClient
Package: <default package>
Client Style: JAX-WS Style
Generate Dispatch code
Enter the URL of the service you wish to
Browse Web Services
Web Services:
MyMultiplicatorWSApplication
MyMultiplicatorWS
multiply: int
OK
Cancel
Sélection parmi les services disponibles
1 | 1
INS


Adresse URL déduite
du descriptif WSDL
New Web Service Client
Steps
1. Choose File Type
2. WSDL and Client Location
WSDL and Client Location
Specify the WSDL file of the Web Service.
Project:
http://localhost:8080/MyMultiplicatorWSApplication/MyMultiplicatorWSService?wsdl
Browse...
Local File:
Browse...
WSDL URL:
Set Proxy...
Specify a location for the client.
Project:
MyMultiplicatorClient
Package:
<default package>
Client Style:
JAX-WS Style
Generate Dispatch code
< Back
Next >
Finish
Cancel
Help

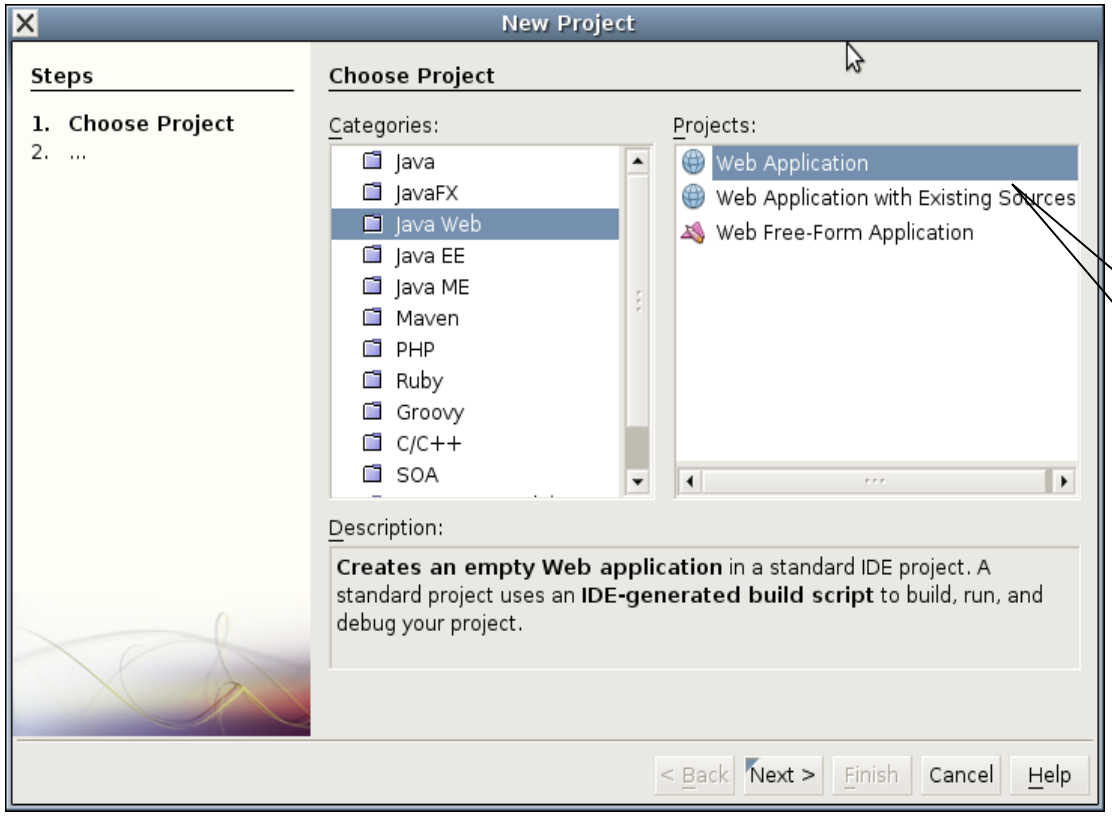

Applications Raccourcis Système
MyMultiplicatorClient ...
15:38
MyMultiplicatorClient - NetBeans IDE 6.7.1
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
<default config>
Search (Ctrl+I)
Files Serv... Output Favo...
MyMultiplicatorClient
Source Packages
META-INF
META-INF.wsdl.localhost_8080.M
mymultiplicatorclient
Main.java
Test Packages
Generated Sources (jax-ws)
Web Service References
MyMultiplicatorWSService
MyMultiplicatorWSService
MyMultiplicatorWSPort
multiply
Libraries
Test Libraries
MyMultiplicatorWSApplication
Web Pages
WEB-INF
index.jsp
Web Services
MyMultiplicatorWS
Configuration Files
Page de démarrage
index.jsp
MyMultiplicatorWS.java
Main.java *
11 */
12 public class Main {
13
14 /**
15 * @param args the command line arguments
16 */
17 public static void main(String[] args) {
18
19 try { // Call Service Operation
20 org.me.calculator.MyMultiplicatorWSService service = new org.me.calculator.MyMu
21 org.me.calculator.MyMultiplicatorWS port = service.getMyMultiplicatorWSPort();
22 // TODO initialize WS operation arguments here
23 int parameter1 = 0;
24 int parameter2 = 0;
25 // TODO process result here
26 int result = port.multiply(parameter1, parameter2);
27 System.out.println("Result = "+result);
28 } catch (Exception ex) {
29 // TODO handle custom exceptions here
30 }
31 // TODO code application logic here
32 }
33
34 }
Drag and Drop !
Main.java - P...
Properties
Name Main
java
Compile Cl
Runtime Cl /hom...
Boot Class /usr/li...
Main.java
Navigator
Members View
Main
main(String[] args)
Search Results
Test Results
0,0 %
No tests executed.(0,0 s)
31 | 1 INS


MyMultiplicatorClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
<default config>
Projects Files Services
MyMultiplicatorClient
Source Packages
mymultiplicatorclient
Main.java
Test Packages
Web Service References
MyMultiplicatorWSService
MyMultiplicatorWSService
MyMultiplicatorWSPort
multiply
Libraries
Test Libraries
MyMultiplicatorWSApplication
Main.java - Navigator
Bean Patterns
Main
index.jsp
MyMultiplicatorWS.java
Main.java *
package mymultiplicatorclient;
/**
*
* @author bcg
*/
public class Main {
/**
* @param args the command line arguments
*/
public static void main(String[] args) {
try { // Call Web Service Operation
org.me.calculator.MyMultiplicatorWSService service = new org.me.calculator.My
org.me.calculator.MyMultiplicatorWS port = service.getMyMultiplicatorWSPort()
// TODO initialize WS operation arguments here
int parameterI = 0;
int parameterJ = 0;
// TODO process result here
int result = port.multiply(parameterI, parameterJ);
System.out.println("Result = "+result);
} catch (Exception ex) {
// TODO handle custom exceptions here
}
}
31:1
INS
Output
HTTP Monitor
Java DB Database Process
GlassFish V2
Retriever Output
MyMultiplicatorClient-impl (wsimport-client-MyMultiplicatorWSService,wsimport-client-compile)
Insertion du code généré d'appel au service

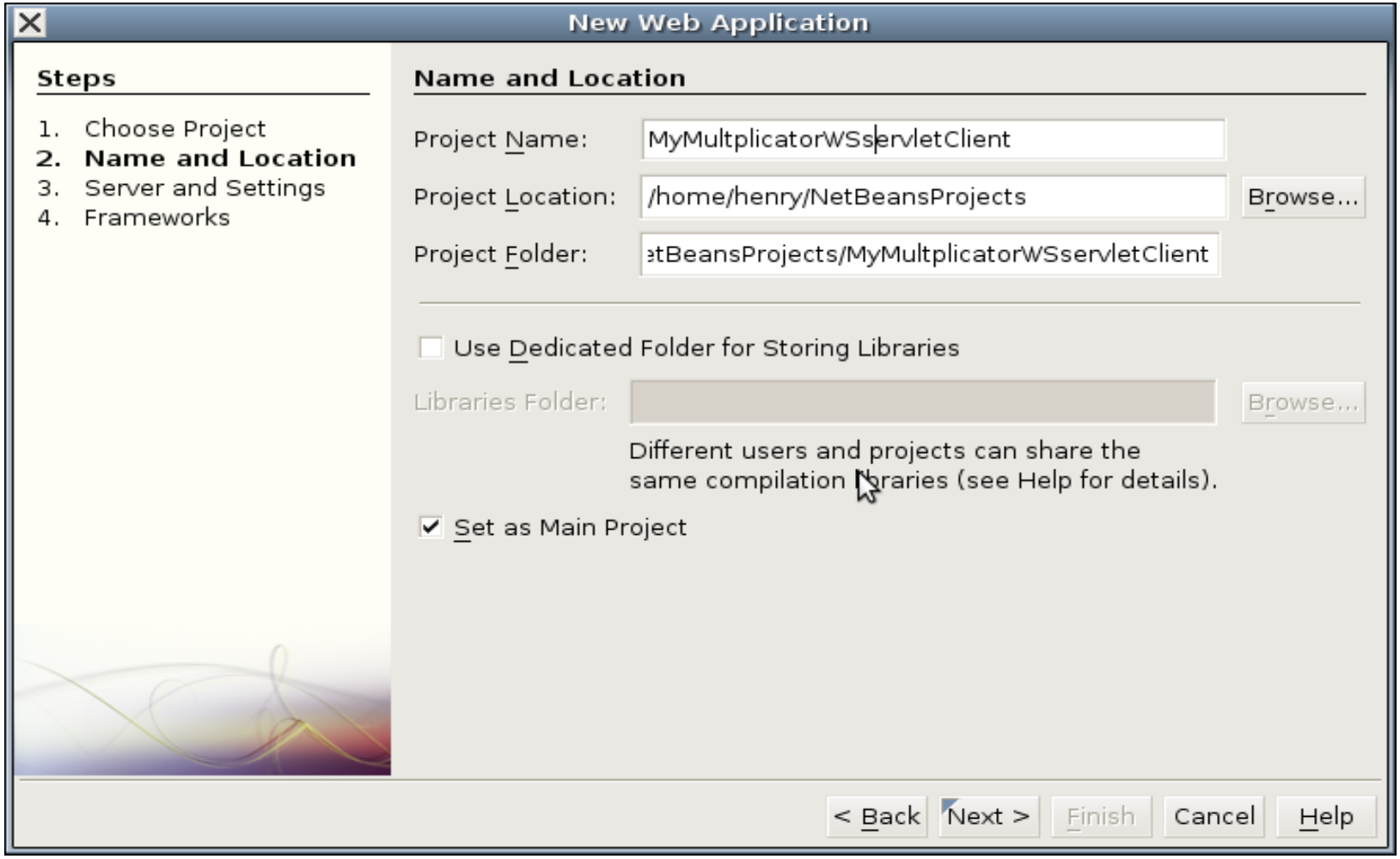

MyMultiplicatorClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
<default config>
Projects Files Services
MyMultiplicatorClient
New
Build
Clean and Build
Clean
Generate Javadoc
Run
Debug
Profile
Test Alt+F6
Set Configuration
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
Main.java - Navi
Bean Patterns
Main
index.jsp
MyMultiplicatorWS.java
Main.java *
package mymultiplicatorclient;
/**
*
* @author bcg
*/
public class Main {
/**
* @param args the command line arguments
*/
public static void main(String[] args) {
try { // Call Web Service Operation
org.me.calculator.MyMultiplicatorWSService service = new org.me.calculator.My
org.me.calculator.MyMultiplicatorWS port = service.getMyMultiplicatorWSPort()
// TODO initialize WS operation arguments here
int parameterI = 0;
int parameterJ = 0;
// TODO process result here
int result = port.multiply(parameterI, parameterJ);
System.out.println("Result = "+result);
} catch (Exception ex) {
// TODO handle custom exceptions here
}
}
Lancement, après compilation
31:1 INS
Output
HTTP Monitor
Java DB Database Process
GlassFish V2
Retriever Output
MyMultiplicatorClient-impl (wsimport-client-MyMultiplicatorWSService,wsimport-client-compile)

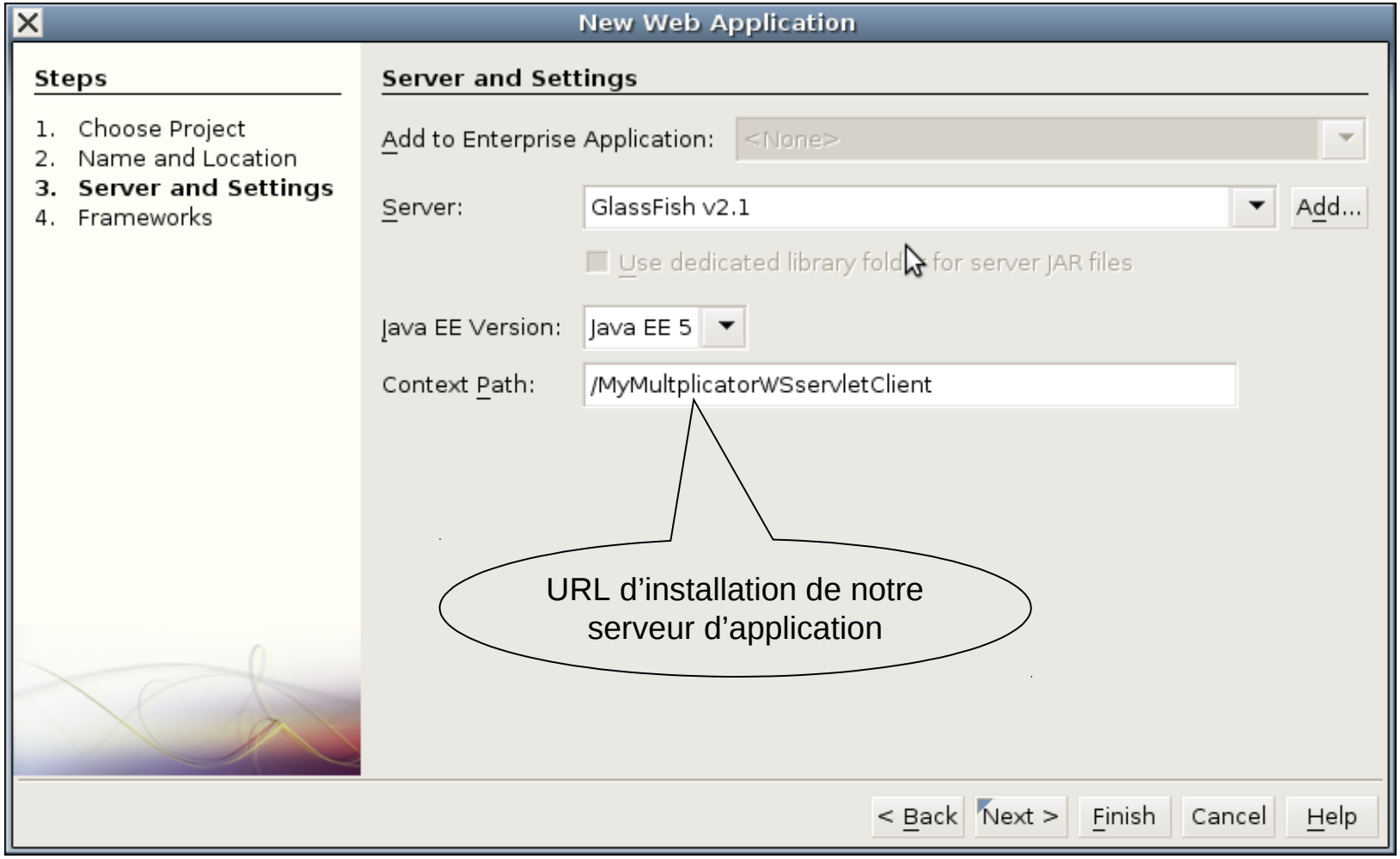

MyMultiplicatorClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
<default config>
Projects Files Services
MyMultiplicatorClient
Source Packages
mymultiplicatorclient
Main.java
Test Packages
Web Service References
MyMultiplicatorWSService
MyMultiplicatorWSService
MyMultiplicatorWSPort
multiply
Libraries
Test Libraries
Main.java - Navigator
Bean Patterns
Main
index.jsp
MyMultiplicatorWS.java
Main.java
package mymultiplicatorclient;
/**
*
* @author bcg
*/
public class Main {
/**
* @param args the command line arguments
*/
public static void main(String[] args) {
try { // Call Web Service Operation
org.me.calculator.MyMultiplicatorWSService service = new org.me.calculator.My
org.me.calculator.MyMultiplicatorWS port = service.getMyMultiplicatorWSPort()
// TODO initialize WS operation arguments here
int parameterI = 0;
int parameterJ = 0;
// TODO process result here
int result = port.multiply(parameterI, parameterJ);
31:1
INS
Output
HTTP Monitor
Java DB Database Process
GlassFish V2
Retriever Output
MyMultiplicatorClient (run)
wsimport-client-MyMultiplicatorWSService:
wsimport-client-generate:
wsimport-client-compile:
Compiling 1 source file to C:\Home\NetBeansProjects\MyMultiplicatorClient\build\classes
compile:
run:
Result = 0
BUILD SUCCESSFUL (total time: 22 seconds)
Résultat

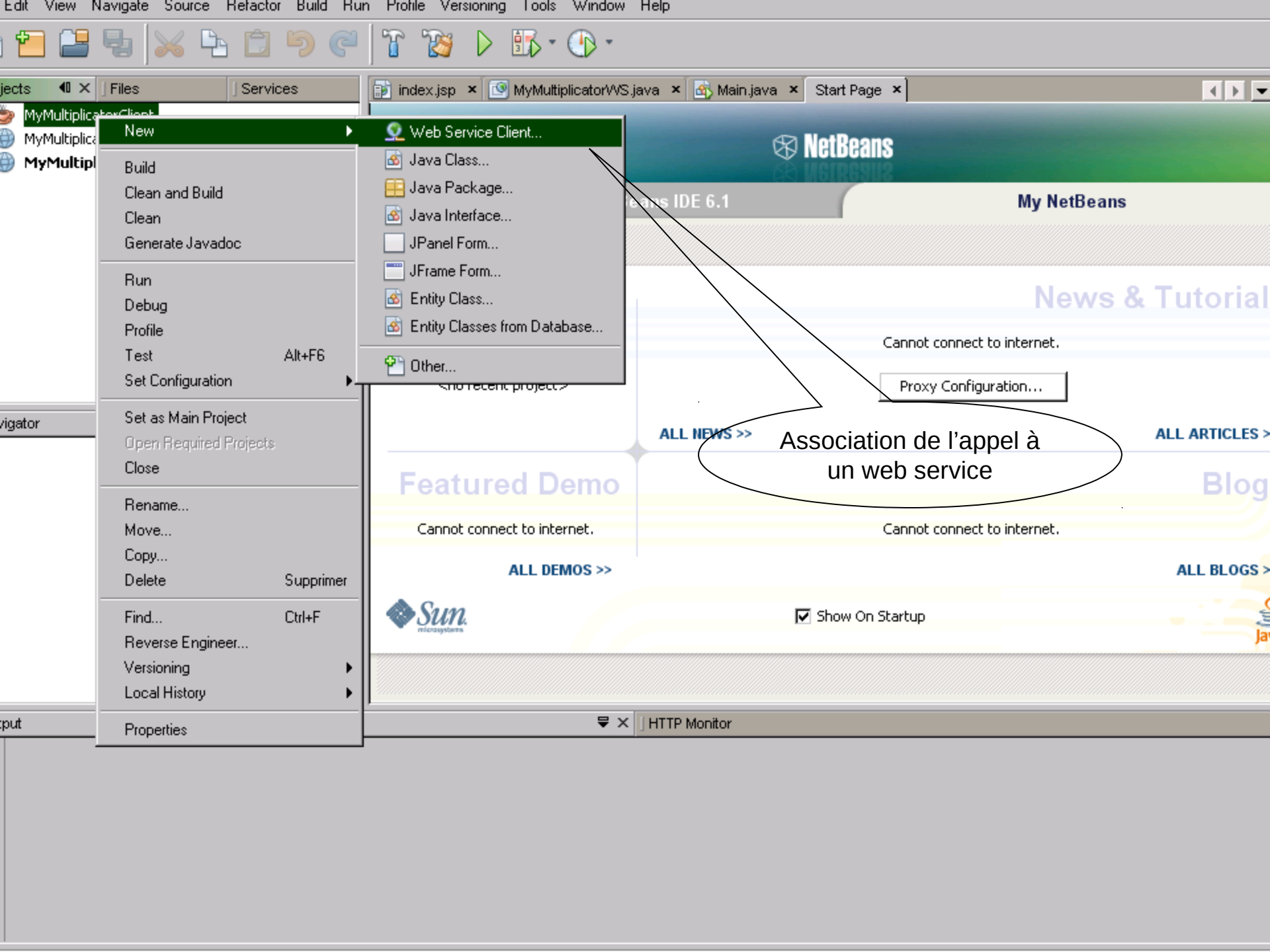
Création d’un second client, une servlet dans une application Web

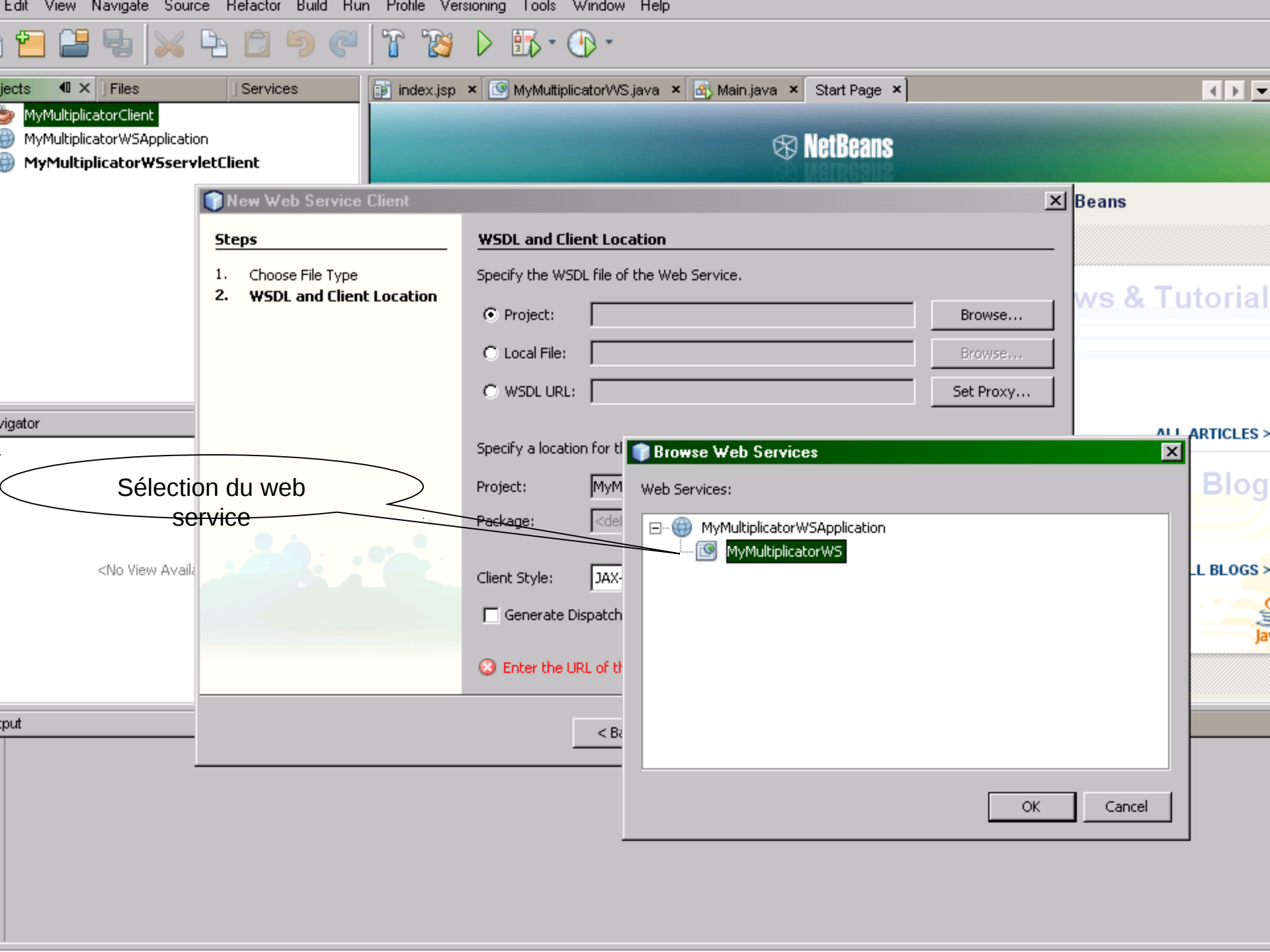


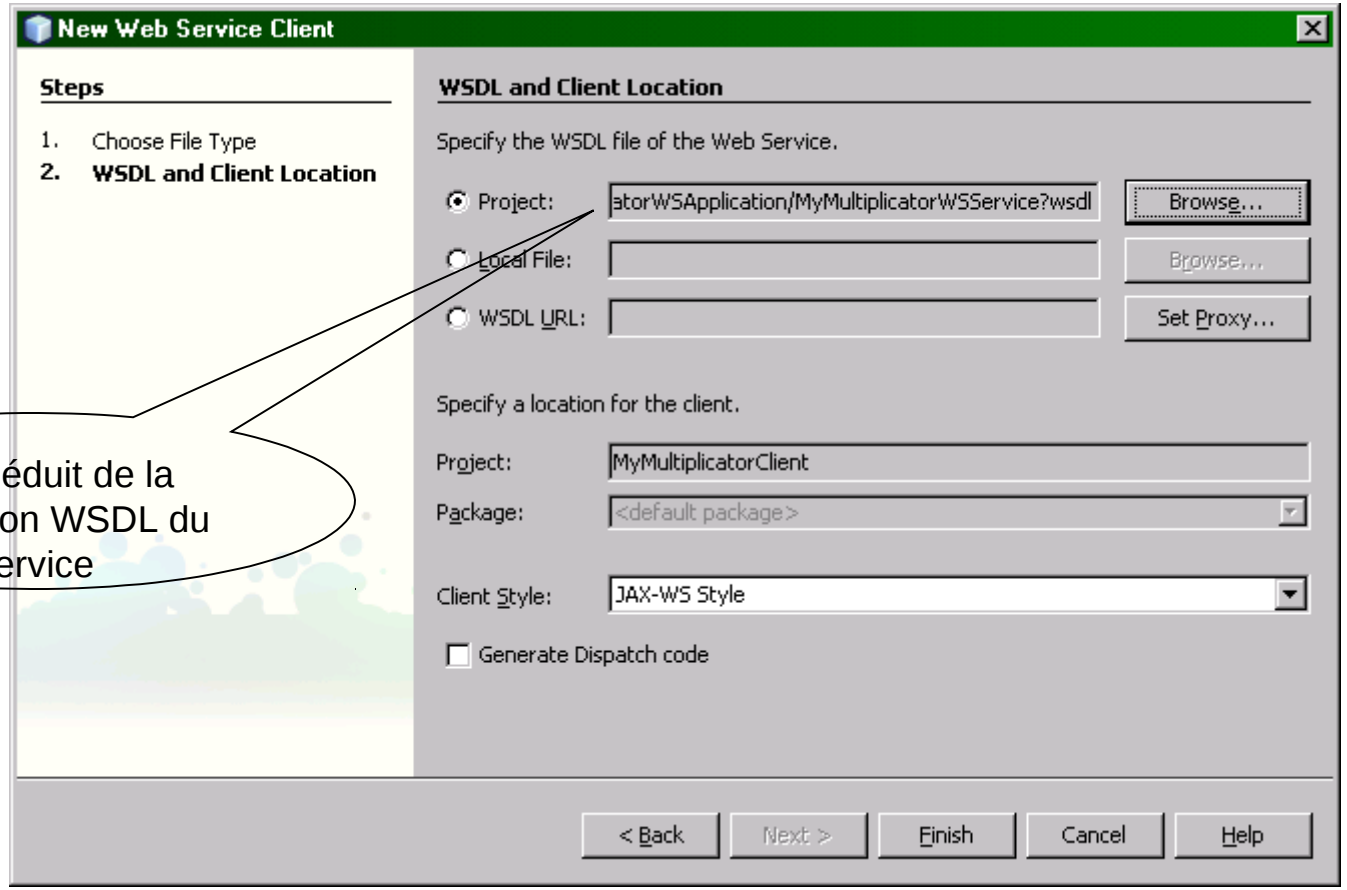
Création d'une Application Web


New Web Application
Steps
1. Choose Project
2. Name and Location
3. Server and Settings
4. Frameworks
Name and Location
Project Name:
MyMultplicatorWSservletClient
Project Location:
/home/henry/NetBeansProjects
Browse...
Project Folder:
etBeansProjects/MyMultplicatorWSservletClient
Use Dedicated Folder for Storing Libraries
Libraries Folder:
Browse...
Different users and projects can share the
same compilation libraries (see Help for details).
Set as Main Project
< Back
Next >
Finish
Cancel
Help

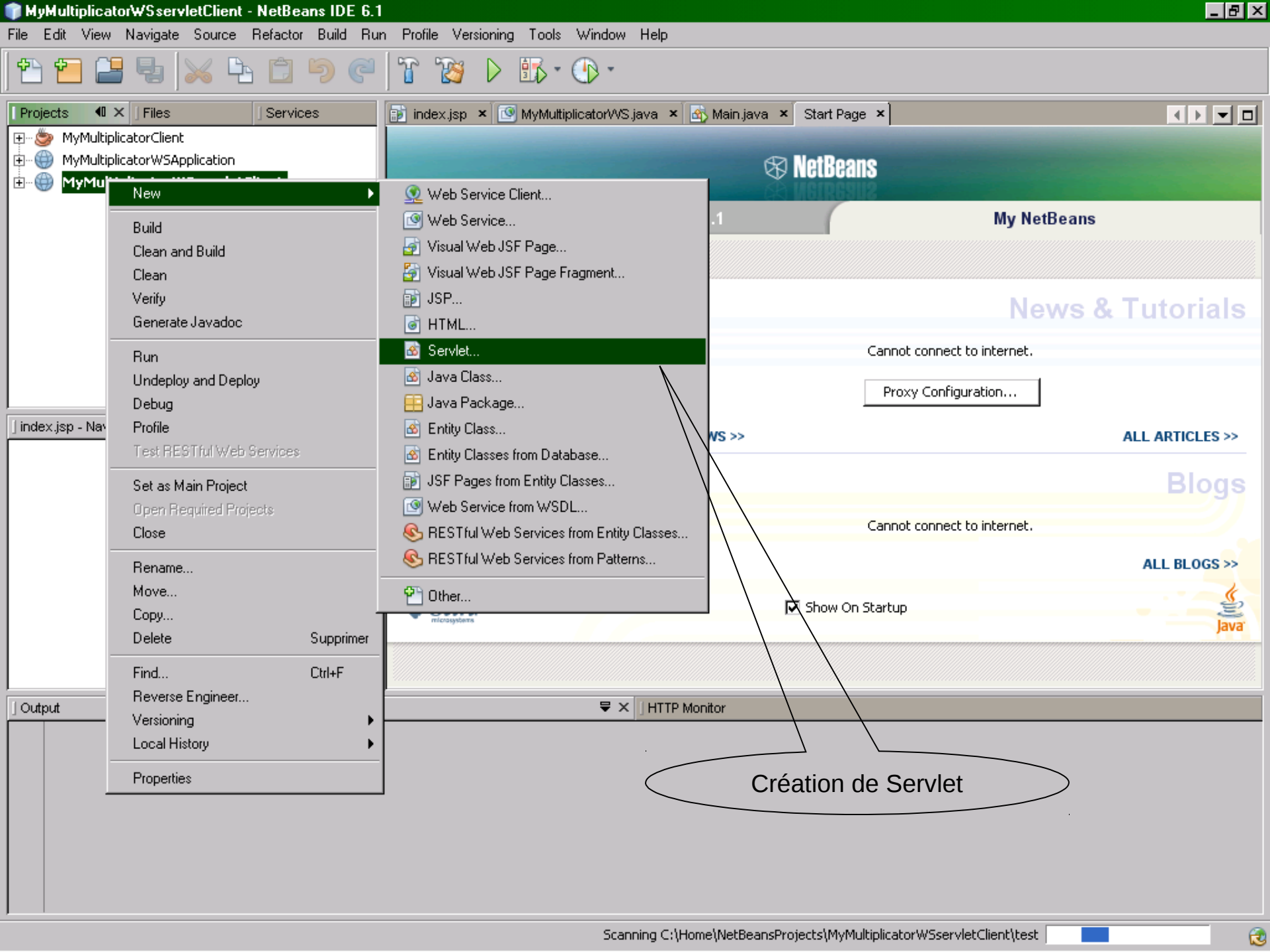

New Web Application
Steps
1. Choose Project
2. Name and Location
3. Server and Settings
4. Frameworks
Server and Settings
Add to Enterprise Application:
<None>
Server:
GlassFish v2.1
Add...
Use dedicated library fold for server JAR files
Java EE Version:
Java EE 5
Context Path:
/MyMultplicatorWSservletClient
URL d'installation de notre serveur d'application
< Back
Next >
Finish
Cancel
Help


Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
Files
Services
index.jsp
MyMultiplicatorWS.java
Main.java
Start Page
New
Build
Clean and Build
Clean
Generate Javadoc
Run
Debug
Profile
Test Alt+F6
Set Configuration
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
Web Service Client...
Java Class...
Java Package...
Java Interface...
JPanel Form...
JFrame Form...
Entity Class...
Entity Classes from Database...
Other...
NetBeans
My NetBeans
News & Tutorial
Cannot connect to internet.
Proxy Configuration...
ALL NEWS >>
ALL ARTICLES >
Featured Demo
Cannot connect to internet.
Blog
Cannot connect to internet.
ALL DEMOS >>
ALL BLOGS >
Show On Startup
HTTP Monitor
Association de l'appel à un web service


Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
Files
Services
MyMultiplicatorClient
MyMultiplicatorWSApplication
MyMultiplicatorWSservletClient
index.jsp
MyMultiplicatorWS.java
Main.java
Start Page
NetBeans
New Web Service Client
Steps
1. Choose File Type
2. WSDL and Client Location
WSDL and Client Location
Specify the WSDL file of the Web Service.
Project:
Local File:
WSDL URL:
Browse...
Browse...
Set Proxy...
Specify a location for t
Project:
Package:
Client Style:
Generate Dispatch
Enter the URL of t
< Ba
Browse Web Services
Web Services:
MyMultiplicatorWSApplication
MyMultiplicatorWS
OK
Cancel
Sélection du web service



URL déduit de la description WSDL du service


MyMultiplicatorWSservletClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
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My NetBeans
News & Tutorials
Cannot connect to internet.
Proxy Configuration...
ALL ARTICLES >>
Blogs
Cannot connect to internet.
ALL BLOGS >>
Show On Startup
Java
New
Build
Clean and Build
Clean
Verify
Generate Javadoc
Run
Undeploy and Deploy
Debug
Profile
Test RESTful Web Services
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
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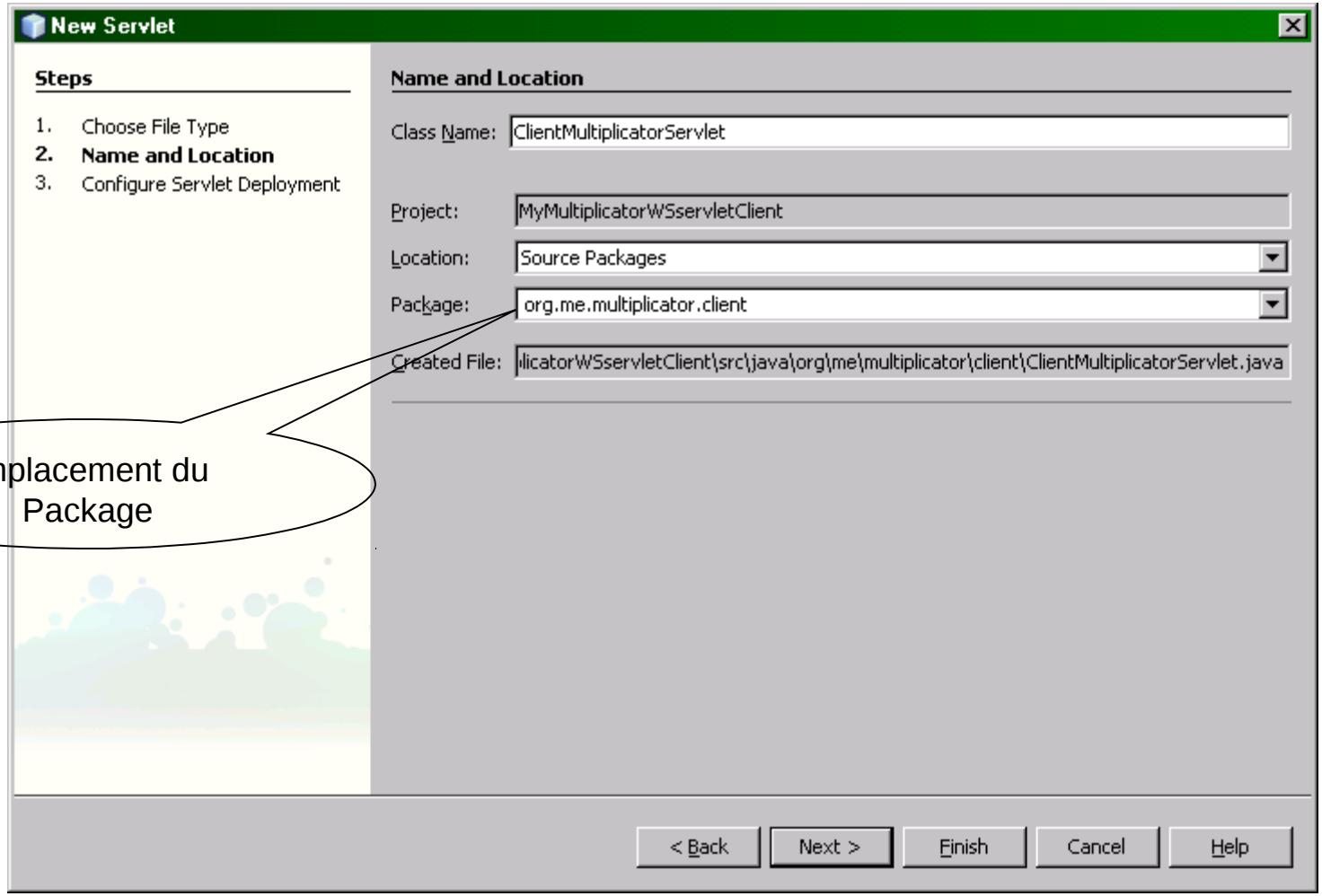
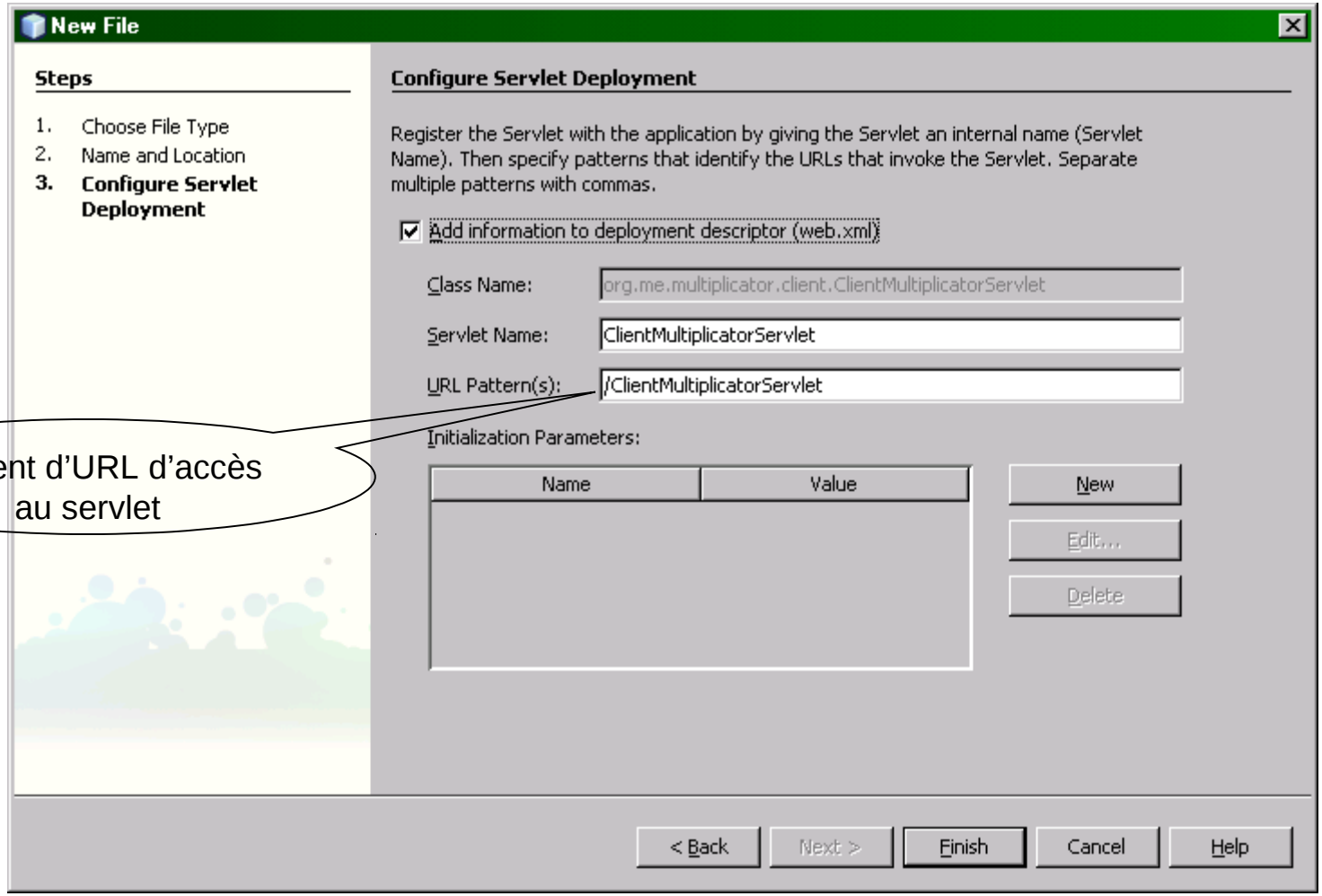
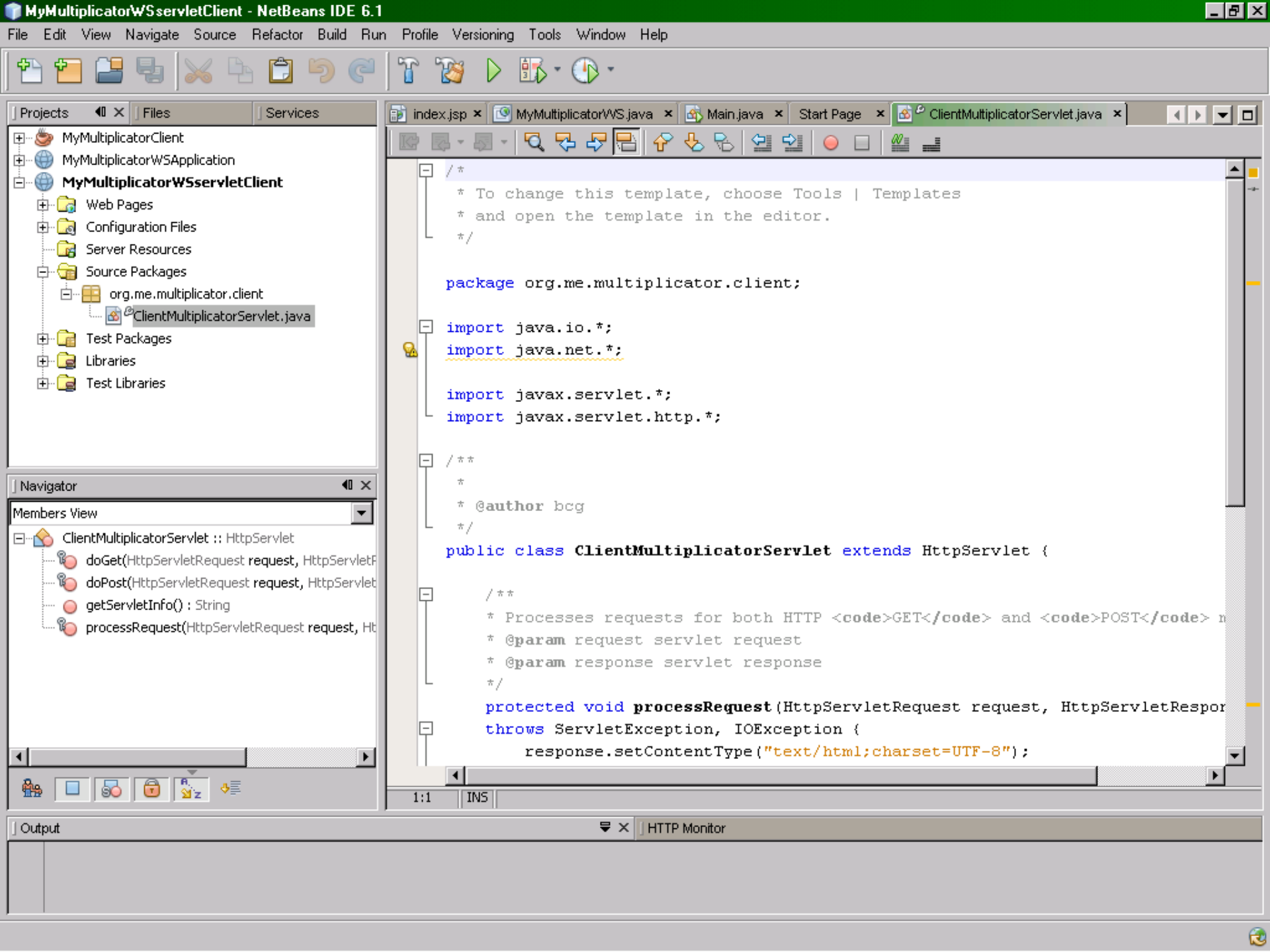
Web Service Client...
Web Service...
Visual Web JSF Page...
Visual Web JSF Page Fragment...
JSP...
HTML...
Servlet...
Java Class...
Java Package...
Entity Class...
Entity Classes from Database...
JSF Pages from Entity Classes...
Web Service from WSDL...
RESTful Web Services from Entity Classes...
RESTful Web Services from Patterns...
Other...
Output
HTTP Monitor
Création de Servlet
Scanning C:\Home\NetBeansProjects\MyMultiplicatorWSservletClient\test



Emplacement du Package



Élément d'URL d'accès au servlet


MyMultiplicatorWSservletClient - NetBeans IDE 6.1
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MyMultiplicatorWSservletClient
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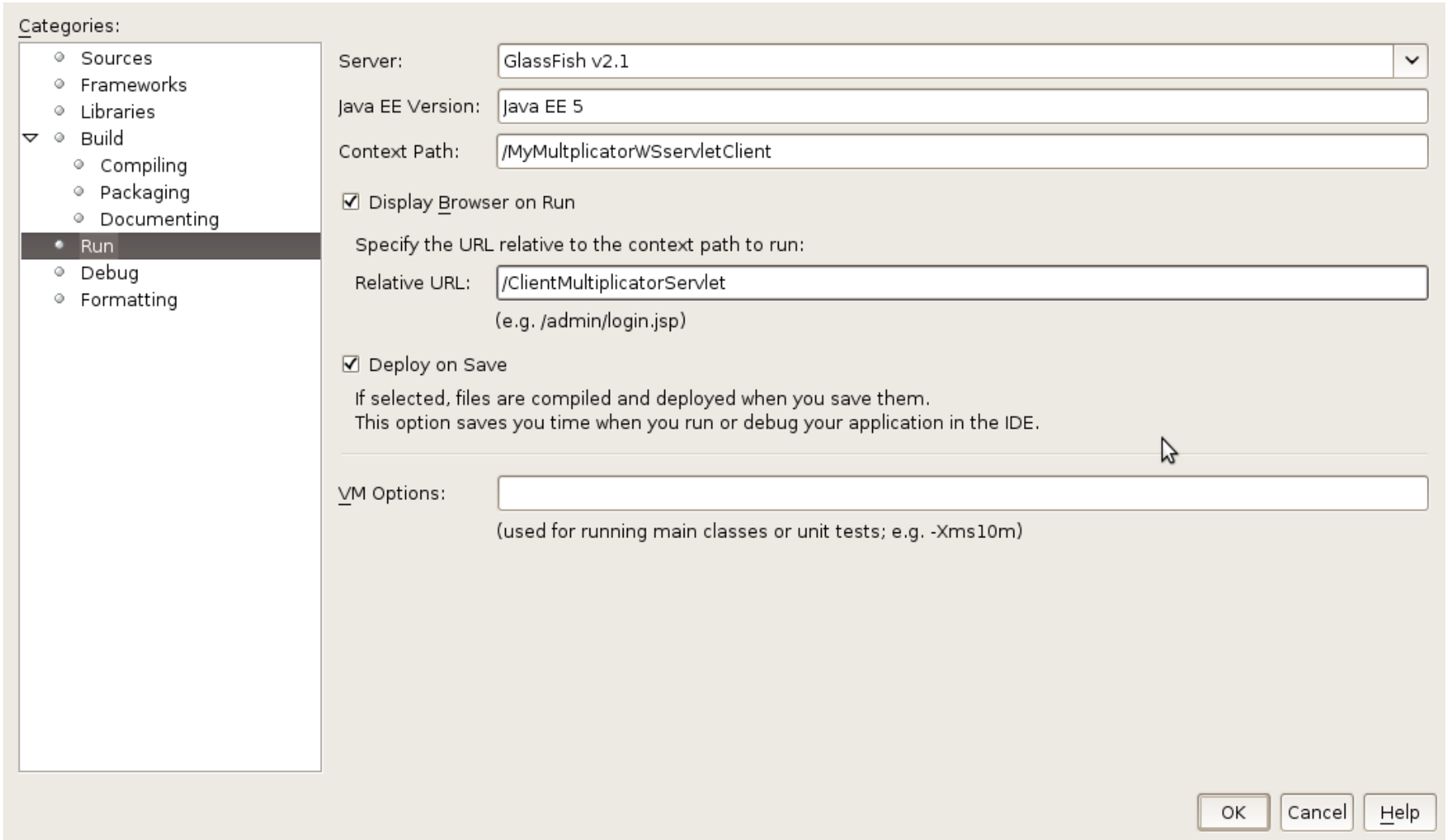
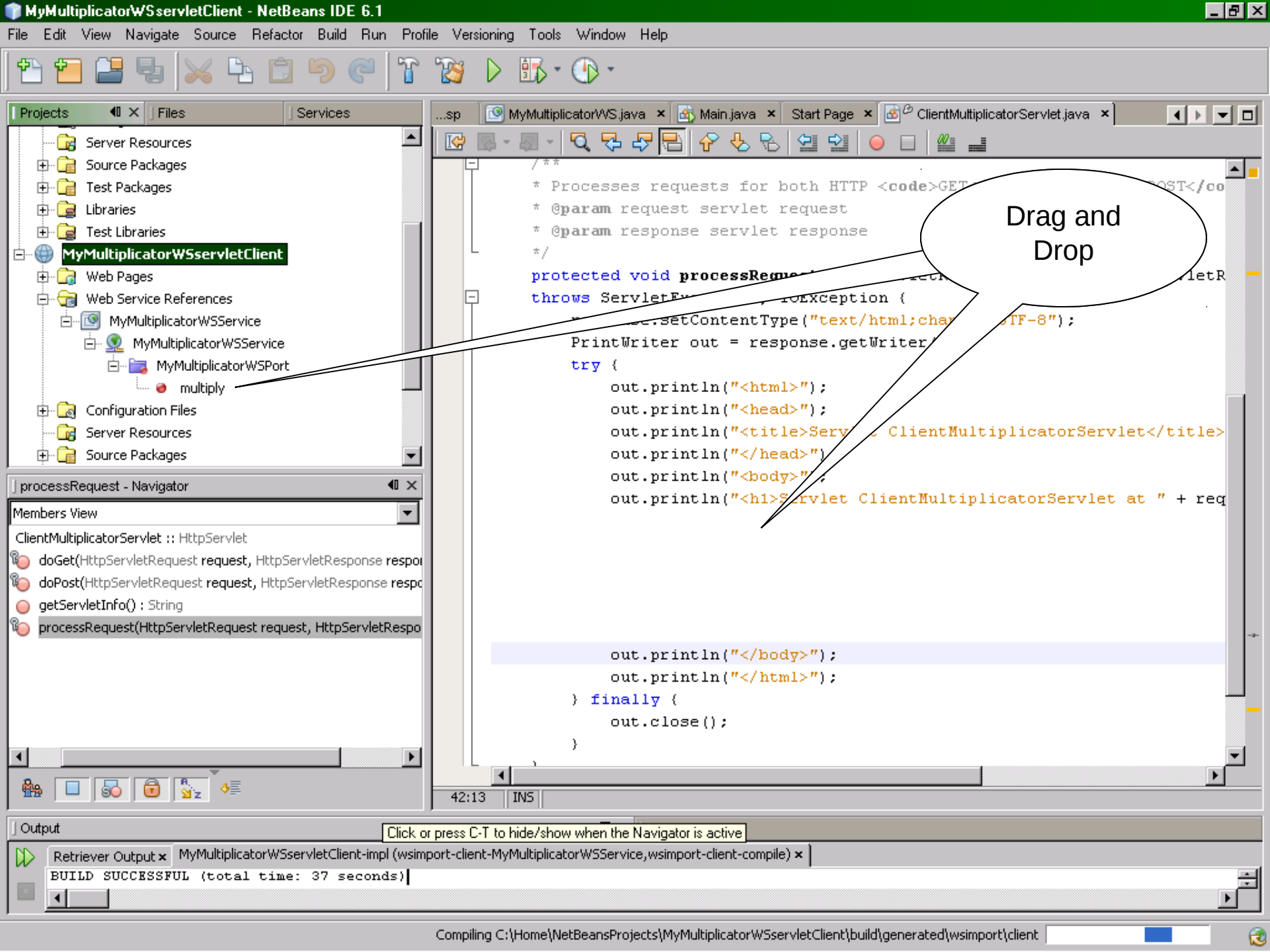
org.me.multiplicator.client
ClientMultiplicatorServlet.java
Test Packages
Libraries
Test Libraries
Navigator
Members View
ClientMultiplicatorServlet :: HttpServlet
doGet(HttpServletRequest request, HttpServletF
doPost(HttpServletRequest request, HttpServlet
getServletInfo() : String
processRequest(HttpServletRequest request, Ht
index.jsp
MyMultiplicatorWS.java
Main.java
Start Page
ClientMultiplicatorServlet.java
/*
* To change this template, choose Tools | Templates
* and open the template in the editor.
*/
package org.me.multiplicator.client;
import java.io.*;
import java.net.*;
import javax.servlet.*;
import javax.servlet.http.*;
/**
*
* @author bcg
*/
public class ClientMultiplicatorServlet extends HttpServlet {
/**
* Processes requests for both HTTP <code>GET</code> and <code>POST</code> m
* @param request servlet request
* @param response servlet response
*/
protected void processRequest(HttpServletRequest request, HttpServletRespor
throws ServletException, IOException {
response.setContentType("text/html;charset=UTF-8");
1:1
INS
Output
HTTP Monitor


Categories:
Sources
Frameworks
Libraries
Build
Compiling
Packaging
Documenting
Run
Debug
Formatting
Server:
GlassFish v2.1
Java EE Version:
Java EE 5
Context Path:
/MyMultplicatorWSservletClient
Display Browser on Run
Specify the URL relative to the context path to run:
Relative URL:
/ClientMultiplicatorServlet
(e.g. /admin/login.jsp)
Deploy on Save
If selected, files are compiled and deployed when you save them.
This option saves you time when you run or debug your application in the IDE.
VM Options:
(used for running main classes or unit tests; e.g. -Xms10m)
OK
Cancel
Help


MyMultiplicatorWSservletClient - NetBeans IDE 6.1
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Test Libraries
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MyMultiplicatorWSService
MyMultiplicatorWSService
MyMultiplicatorWSPort
multiply
Configuration Files
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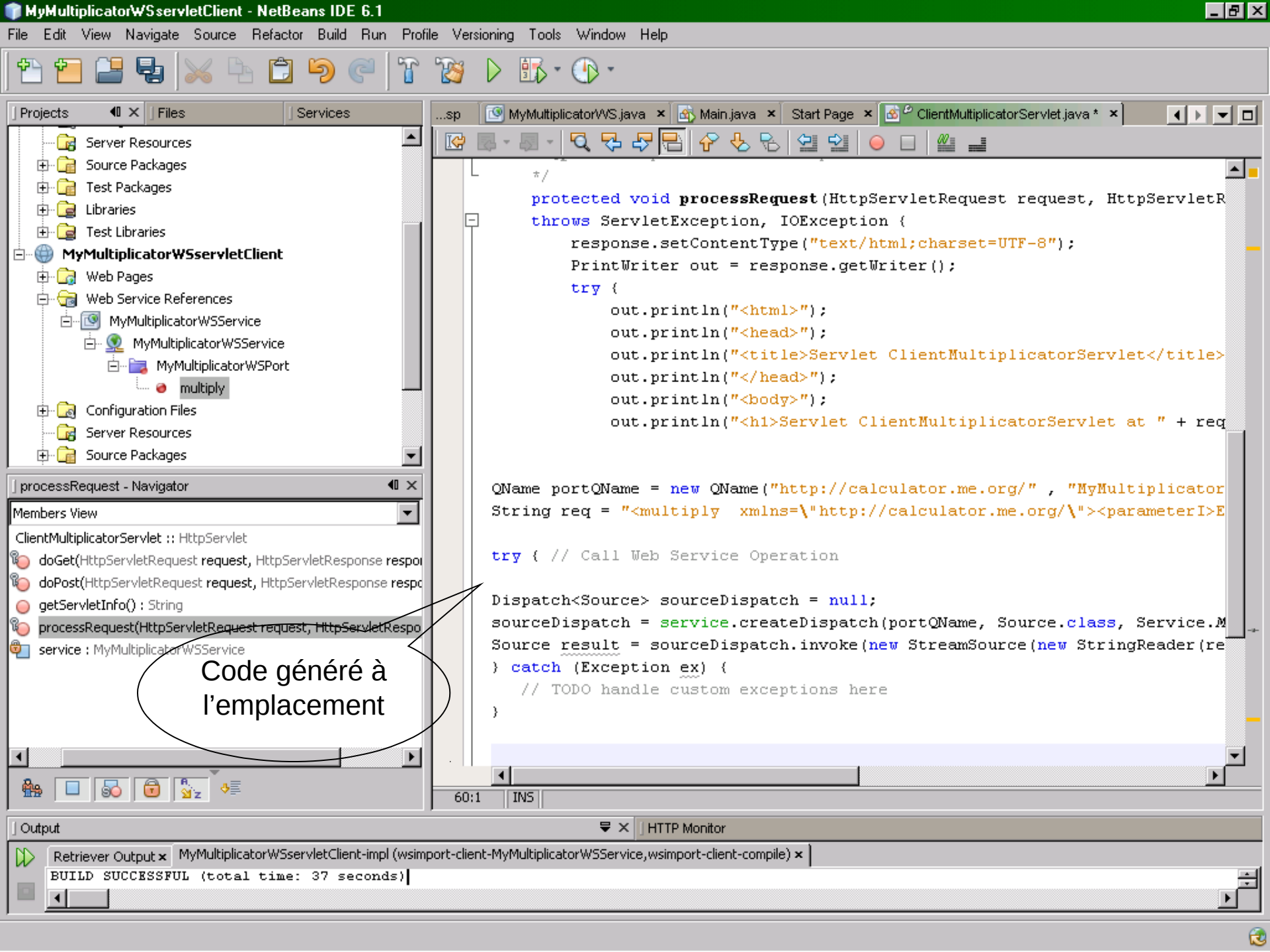
processRequest - Navigator
Members View
ClientMultiplicatorServlet :: HttpServlet
doGet(HttpServletRequest request, HttpServletResponse respo
doPost(HttpServletRequest request, HttpServletResponse respo
getServletInfo() : String
processRequest(HttpServletRequest request, HttpServletRespo
MyMultiplicatorWS.java
Main.java
Start Page
ClientMultiplicatorServlet.java
Drag and Drop
out.println("<html>");
out.println("<head>");
out.println("</head>");
out.println("<body>");
out.println("</body>");
out.println("</html>");
} finally {
out.close();
42:13
INS
Output
Click or press C-T to hide/show when the Navigator is active
Retriever Output
MyMultiplicatorWSservletClient-impl (wsimport-client-MyMultiplicatorWSService,wsimport-client-compile)
BUILD SUCCESSFUL (total time: 37 seconds)
Compiling C:\Home\NetBeansProjects\MyMultiplicatorWSservletClient\build\generated\wsimport\client


MyMultiplicatorWSservletClient - NetBeans IDE 6.1
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Test Packages
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MyMultiplicatorWSservletClient
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MyMultiplicatorWSService
MyMultiplicatorWSService
MyMultiplicatorWSPort
multiply
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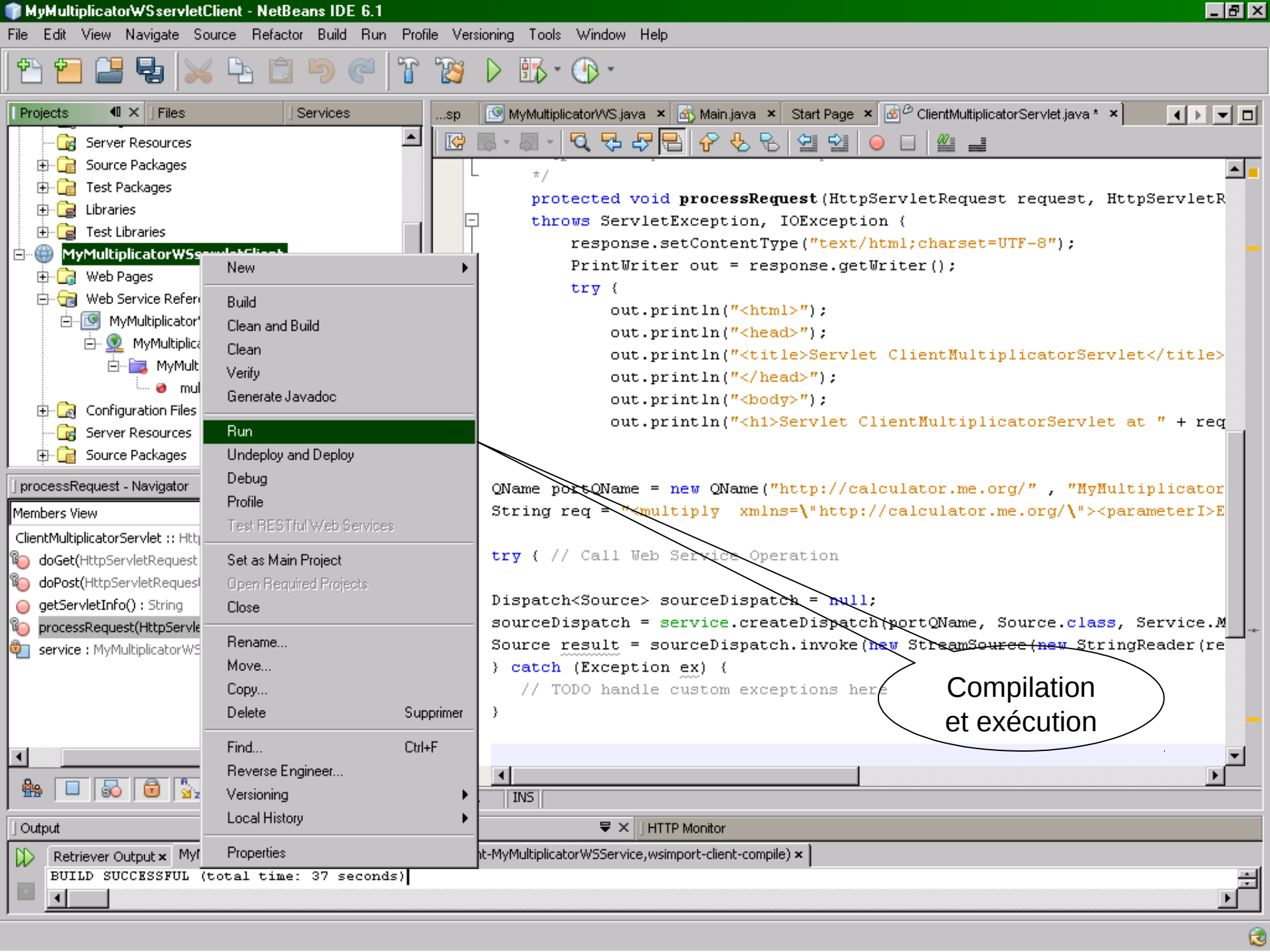
Server Resources
Source Packages
processRequest - Navigator
Members View
ClientMultiplicatorServlet :: HttpServlet
doGet(HttpServletRequest request, HttpServletResponse respo
doPost(HttpServletRequest request, HttpServletResponse respo
getServletInfo() : String
processRequest(HttpServletRequest request, HttpServletRespo
service : MyMultiplicatorWSService
Code généré à l'emplacement
...sp
MyMultiplicatorWS.java
Main.java
Start Page
ClientMultiplicatorServlet.java *
*/
protected void processRequest(HttpServletRequest request, HttpServletR
throws ServletException, IOException {
response.setContentType("text/html;charset=UTF-8");
PrintWriter out = response.getWriter();
try {
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet ClientMultiplicatorServlet</title>
out.println("</head>");
out.println("<body>");
out.println("<h1>Servlet ClientMultiplicatorServlet at " + req
QName portQName = new QName("http://calculator.me.org/" , "MyMultiplicator
String req = "<multiply xmlns=\"http://calculator.me.org/\"><parameterI>E
try { // Call Web Service Operation
Dispatch<Source> sourceDispatch = null;
sourceDispatch = service.createDispatch(portQName, Source.class, Service.M
Source result = sourceDispatch.invoke(new StreamSource(new StringReader(re
} catch (Exception ex) {
// TODO handle custom exceptions here
}
60:1
INS
Output
HTTP Monitor
Retriever Output
MyMultiplicatorWSservletClient-impl (wsimport-client-MyMultiplicatorWSService,wsimport-client-compile)
BUILD SUCCESSFUL (total time: 37 seconds)


MyMultiplicatorWSservletClient - NetBeans IDE 6.1
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Test Packages
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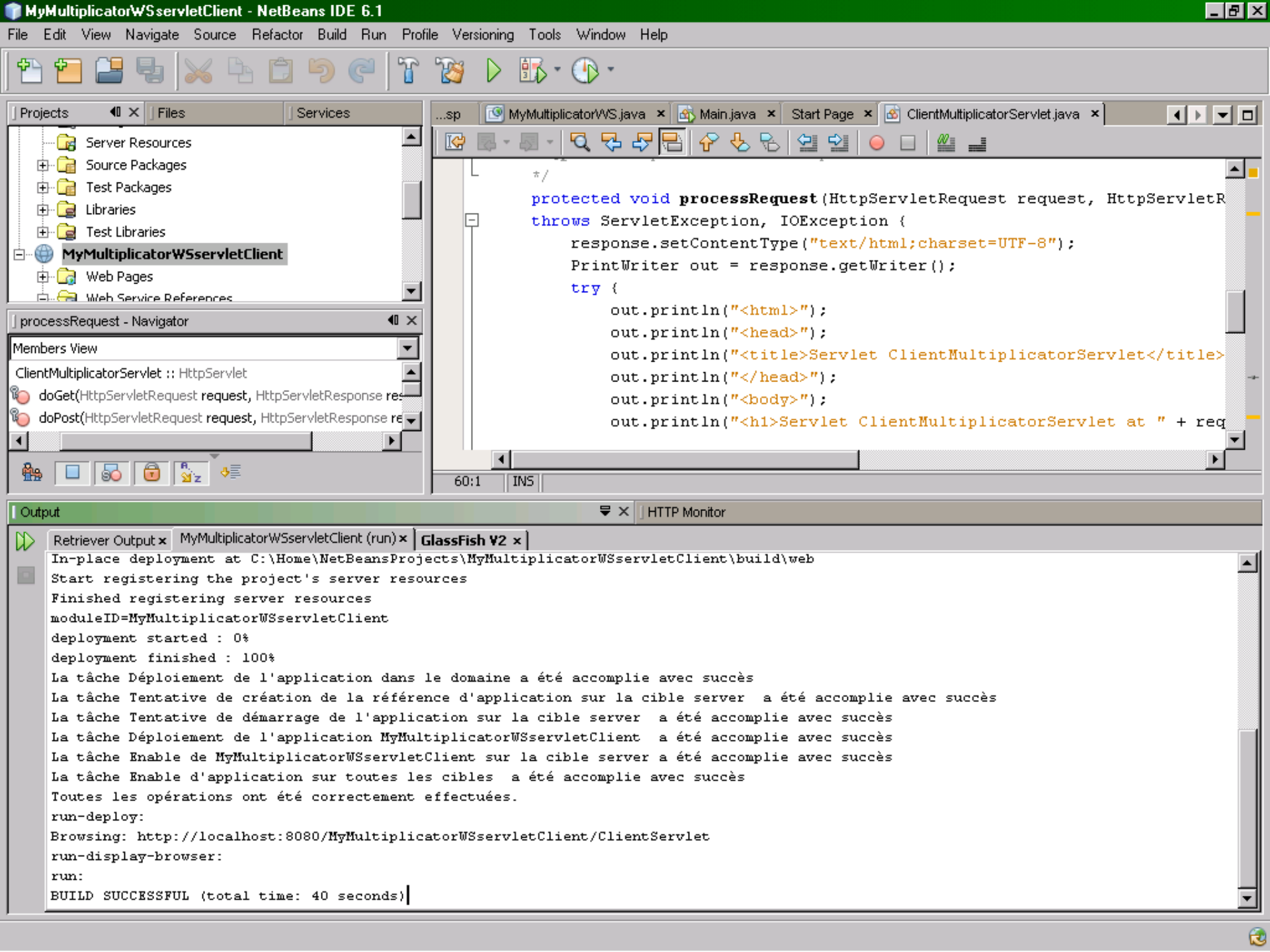
Source Packages
processRequest - Navigator
Members View
ClientMultiplicatorServlet :: Htt
doGet(HttpServletRequest
doPost(HttpServletRequest
getServletInfo() : String
processRequest(HttpServle
service : MyMultiplicatorWS
New
Build
Clean and Build
Clean
Verify
Generate Javadoc
Run
Undeploy and Deploy
Debug
Profile
Test RESTful Web Services
Set as Main Project
Open Required Projects
Close
Rename...
Move...
Copy...
Delete Supprimer
Find... Ctrl+F
Reverse Engineer...
Versioning
Local History
Properties
MyMultiplicatorWS.java
Main.java
Start Page
ClientMultiplicatorServlet.java *
*/
protected void processRequest(HttpServletRequest request, HttpServletR
throws ServletException, IOException {
response.setContentType("text/html;charset=UTF-8");
PrintWriter out = response.getWriter();
try {
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet ClientMultiplicatorServlet</title>
out.println("</head>");
out.println("<body>");
out.println("<h1>Servlet ClientMultiplicatorServlet at " + req
QName portQName = new QName("http://calculator.me.org/" , "MyMultiplicator
String req = "<multiply xmlns=\"http://calculator.me.org/\"><parameterI>E
try { // Call Web Service Operation
Dispatch<Source> sourceDispatch = null;
sourceDispatch = service.createDispatch(portQName, Source.class, Service.M
Source result = sourceDispatch.invoke(new StreamSource(new StringReader(re
} catch (Exception ex) {
// TODO handle custom exceptions here
}
INS
Output
HTTP Monitor
Retriever Output
t-MyMultiplicatorWSService,wsimport-client-compile)
BUILD SUCCESSFUL (total time: 37 seconds)
Compilation
et exécution


MyMultiplicatorWSservletClient - NetBeans IDE 6.1
File Edit View Navigate Source Refactor Build Run Profile Versioning Tools Window Help
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Libraries
Test Libraries
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processRequest - Navigator
Members View
ClientMultiplicatorServlet :: HttpServlet
doGet(HttpServletRequest request, HttpServletResponse re
doPost(HttpServletRequest request, HttpServletResponse re
...sp
MyMultiplicatorWS.java
Main.java
Start Page
ClientMultiplicatorServlet.java
*/
protected void processRequest(HttpServletRequest request, HttpServletR
throws ServletException, IOException {
response.setContentType("text/html;charset=UTF-8");
PrintWriter out = response.getWriter();
try {
out.println("<html>");
out.println("<head>");
out.println("<title>Servlet ClientMultiplicatorServlet</title>
out.println("</head>");
out.println("<body>");
out.println("<h1>Servlet ClientMultiplicatorServlet at " + req
60:1
INS
Output
HTTP Monitor
Retriever Output
MyMultiplicatorWSservletClient (run)
GlassFish V2
In-place deployment at C:\Home\NetBeansProjects\MyMultiplicatorWSservletClient\build\web
Start registering the project's server resources
Finished registering server resources
moduleID=MyMultiplicatorWSservletClient
deployment started : 0%
deployment finished : 100%
La tâche Déploiement de l'application dans le domaine a été accomplie avec succès
La tâche Tentative de création de la référence d'application sur la cible server a été accomplie avec succès
La tâche Tentative de démarrage de l'application sur la cible server a été accomplie avec succès
La tâche Déploiement de l'application MyMultiplicatorWSservletClient a été accomplie avec succès
La tâche Enable de MyMultiplicatorWSservletClient sur la cible server a été accomplie avec succès
La tâche Enable d'application sur toutes les cibles a été accomplie avec succès
Toutes les opérations ont été correctement effectuées.
run-deploy:
Browsing: http://localhost:8080/MyMultiplicatorWSservletClient/ClientServlet
run-display-browser:
run:
BUILD SUCCESSFUL (total time: 40 seconds)

Fin du module