

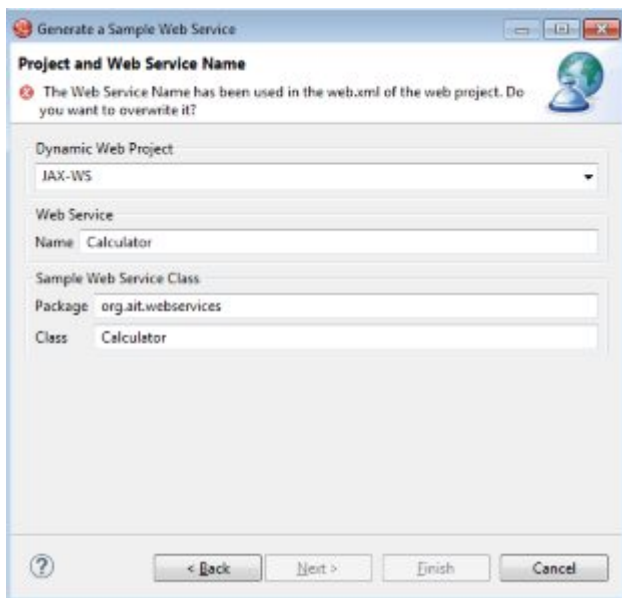
JAX-WS web service

1.) Create a dynamic web project with the name "JAX-WS".

2.) Create the web.xml file with the following content:

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd" id="WebApp_ID"
version="3.1">
  <display-name>JAX-WS</display-name>
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
  </welcome-file-list>
</web-app>
```

3.) Create a sample web service with right click on the project. Other/Web services/Create a sample web service. Follow the screenshot:



4.) Java service will be created:

```
package org.ait.webservices;

import javax.jws.WebMethod;
import javax.jws.WebService;

@WebService()
```

```
public class Calculator {  
  
    @WebMethod()  
    public String sayHello(String name) {  
        System.out.println("Hello: " + name);  
        return "Hello " + name + "!";  
    }  
}
```

5.) Start Jboss application server and select “Run/Run on server” and deploy project.

6.) In the console log you will see a similar text:

```
22:05:35,182 INFO [org.jboss.as.server.deployment] (MSC service thread 1-2)  
JBAS015876: Starting deployment of "JAX-WS.war" (runtime-name: "JAX-WS.war")  
22:05:35,529 INFO [org.jboss.ws.cxf.metadata] (MSC service thread 1-8)  
JBWS024061: Adding service endpoint metadata: id=Calculator  
address=http://localhost:8080/JAX-WS/Calculator  
implementor=or.ait.webservices.Calculator  
serviceName={http://webservices.ait.or/}CalculatorService  
portName={http://webservices.ait.or/}CalculatorPort  
annotationWsdlLocation=null  
wsdlLocationOverride=null  
mtomEnabled=false  
22:05:36,161 INFO  
[org.apache.cxf.service.factory.ReflectionServiceFactoryBean] (MSC service  
thread 1-8) Creating Service {http://webservices.ait.or/}CalculatorService  
from class or.ait.webservices.Calculator  
22:05:37,506 INFO [org.apache.cxf.endpoint.ServerImpl] (MSC service thread  
1-8) Setting the server's publish address to be  
http://localhost:8080/JAX-WS/Calculator  
22:05:37,728 INFO [org.jboss.ws.cxf.deployment] (MSC service thread 1-8)  
JBWS024074: WSDL published to: file:/C:/projects/jbdevstudio/runtimes/jboss-  
eap/standalone/data/wsdl/JAX-WS.war/CalculatorService.wsdl  
22:05:37,734 INFO [org.jboss.as.webservices] (MSC service thread 1-2)  
JBAS015539: Starting service jboss.ws.port-component-link  
22:05:37,738 INFO [org.jboss.as.webservices] (MSC service thread 1-8)  
JBAS015539: Starting service jboss.ws.endpoint."JAX-WS.war".Calculator  
22:05:37,758 INFO [org.jboss.web] (ServerService Thread Pool -- 67)  
JBAS018210: Register web context: /JAX-WS  
22:05:37,902 INFO [org.jboss.as.server] (DeploymentScanner-threads - 1)  
JBAS018559: Deployed "JAX-WS.war" (runtime-name : "JAX-WS.war")
```

7.) Check the wsdl created in your browser: (WSDL link) <http://localhost:8080/JAX-WS/Calculator?wsdl>

8.) Create the service client with ctrl+n select “web services” node from the nodes. Then select “web services client”. Past WSDL link into “Service definition” text field and press finish.

9.) Test client runnable with starting “ClientSample.java” in org.ait.test folder.

Tasks

1.) Modify Calculator source code and add a calculate(int a, int b) function and recreate the client

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Permanent link:

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