



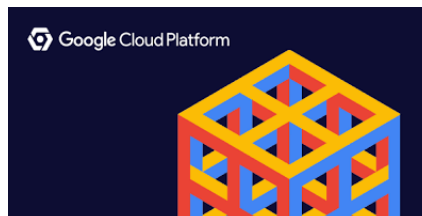
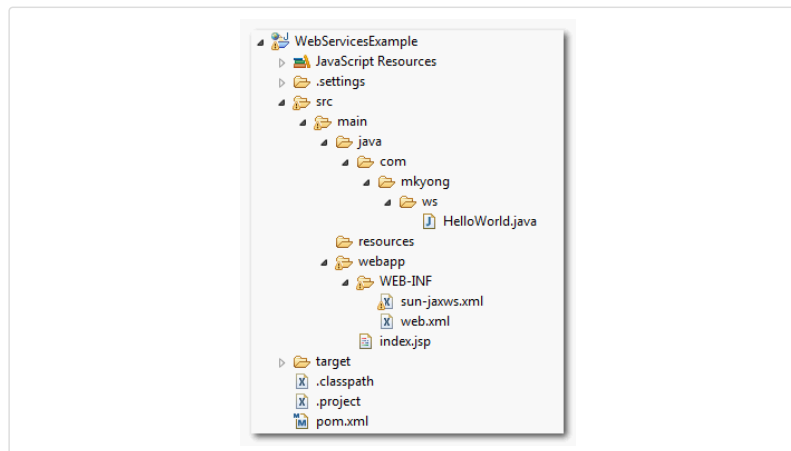
JAX-WS + Java Web Application Integration Example

By mkyong (<http://www.mkyong.com/author/mkyong/>) | March 14, 2011 | Updated : August 29, 2012 | Viewed : 120,720 times +266 pv/w

Often times, JAX-WS always be part of your Java web application. Here we show you how to integrate JAX-WS into Java web application easily.

1. Project Folder

First, review this project folder structure.



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2. Web Service

A super simple web service. Code is self-explanatory.

File : *HelloWorld.java*

```
package com.mkyong.ws;

import javax.xml.soap.WebMethod;
import javax.xml.soap.WebService;

@WebService
public class HelloWorld{

    @WebMethod(operationName="getHelloWorld")
    public String getHelloWorld(String name) {
        return "Hello World JAX-WS " + name;
    }
}
```



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3. Web Service Deployment Descriptor (sun-jaxws.xml)

Create a web service deployment descriptor, named `sun-jaxws.xml`.

File : `sun-jaxws.xml`

```
<?xml version="1.0" encoding="UTF-8"?>
<endpoints
  xmlns="http://java.sun.com/xml/ns/jax-ws/ri/runtime"
  version="2.0">
  <endpoint
    name="HelloWorldWs"
    implementation="com.mkyong.ws.HelloWorld"
    url-pattern="/hello"/>
</endpoints>
```

4. Web Application Deployment Descriptor (web.xml)

In the standard `web.xml`,

1. Defines "`com.sun.xml.ws.transport.http.servlet.WSServletContextListener`" as listener class.
2. Defines "`com.sun.xml.ws.transport.http.servlet.WSServlet`" as your web service (hello) servlet.

File : `web.xml`

```
<!DOCTYPE web-app PUBLIC
"-//Sun Microsystems, Inc.//DTD Web Application 2.3//EN"
"http://java.sun.com/dtd/web-app_2_3.dtd" >

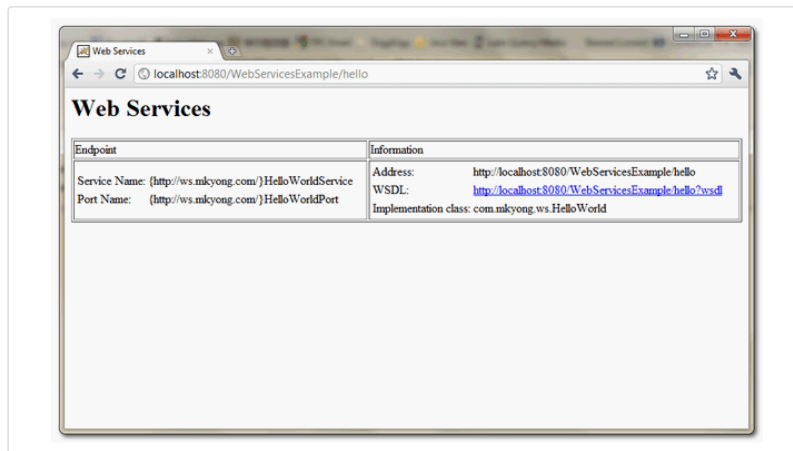
<web-app>
  <display-name>Archetype Created Web Application</display-name>

  <listener>
    <listener-class>
      com.sun.xml.ws.transport.http.servlet.WSServletContextListener
    </listener-class>
  </listener>
  <servlet>
    <servlet-name>hello</servlet-name>
    <servlet-class>
      com.sun.xml.ws.transport.http.servlet.WSServlet
    </servlet-class>
    <load-on-startup>1</load-on-startup>
  </servlet>
  <servlet-mapping>
    <servlet-name>hello</servlet-name>
    <url-pattern>/hello</url-pattern>
  </servlet-mapping>
</web-app>
```

5. Done

The integration between JAX-WS and web application is done. Deploy it and access via URL :

`http://localhost:8080/WebServicesExample/hello`



Download Source Code

Download it – JAX-WS-Integrate-WebApplication-Example.zip
 (<http://www.mkyong.com/wp-content/uploads/2011/03/JAX-WS-Integrate-WebApplication-Example.zip>) (7KB)

Reference

1. How to deploy JAX-WS on Tomcat (<http://www.mkyong.com/webservices/jax-ws/deploy-jax-ws-web-services-on-tomcat/>)
2. JAX-WS hello world example (document-style) (<http://www.mkyong.com/webservices/jax-ws/jax-ws-hello-world-example-document-style/>)

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**mkyong**

Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).

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- 41k [Wrapper class package.jaxws.methodName is not found. Have you run APT to generate them? \(/webservices/jax-ws/wrapper-class-package-jaxws-methodname-is-not-found-have-you-run-apt-to-generate-them/?utm_source=mkyong&utm_medium=author&utm_campaign=related-post&utm_content=4\)](#)
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Guest

RaghuKuamr

Caused by: com.sun.xml.ws.model.RuntimeModelerException: runtime modeler error: Wrapper class com.mkhyong.ws.jaxws.GetHelloWorld is not found. Have you run APT to generate them?
iam getting this exception please help me

 1  [REPLY](#)

🕒 1 year 4 months ago



Guest

Sudhir

I am getting this error.
Any help would be highly appreciated.

Caused by: com.sun.xml.ws.util.exception.LocatableWebServiceException: class not found in runtime descriptor: com.mkhyong.ws.HelloWorld
at line 8 of jndi:/localhost/webservices/WEB-INF/sun-jaxws.xml

~Sudhir


 1  [REPLY](#)

🕒 4 years 8 months ago





Pawe? W?och


You have an error here because /hello is mapped both in sun-jaxws.xml for webservice and in web.xml for an index.jsp. Apart of this, it is a little bit strange to call a web service with /hello. I would

- 

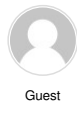
try to show how to add a web service to a webapp by mapping it as "webservice" and standard index.jsp on "hello" .I tried to accomplish this and surprisingly <http://localhost:8080/WebServicesExample/hello> (<http://localhost:8080/WebServicesExample/hello>) returns 404, and only <http://localhost:8080/WebServicesExample/> (<http://localhost:8080/WebServicesExample/>)|optional "index.jsp" suffix) returns HelloWorld!.

Best regards,
Pawel

 0 



 REPLY


🕒 4 months 19 days ago



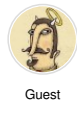
Join_MA

GOOD!!

 0 



 REPLY


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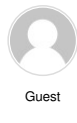
Eduardo

If I create the web service in this way, All the parameters of a method are required ? (for the consumer)

 0 

 REPLY

🕒 2 years 10 months ago






Lê Thu?n

i got a error when create cxf service (jax-ws soap) and use webbrowser to test org.apache.cxf.interceptor.Fault: No binding operation info while invoking unknown method with params unknown.

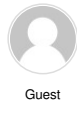
```
@WebService()  
public interface GovernmentNationalityWebService {  
    @WebMethod  
    List findAll();  
  
    @WebMethod  
    GovernmentNationalityDTO findOne(Long id);  
  
    @WebMethod  
    List findAllShtp();  
}
```

plz help me

 0 



 REPLY


🕒 3 years 28 days ago



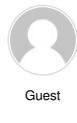
KingFeming

I did everything as you guided but ones after deployed in the server and started the server, I'm getting an error as requested resource is not available.

 0 



 REPLY


🕒 3 years 2 months ago



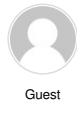
Wasana J

I can build project from eclipse to deploy on websphere ?

 0 



 REPLY


🕒 3 years 8 months ago



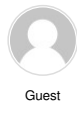
mini

Can anyone explain me .. what we are trying to do here. I mean what will be the use case for this integration.

 0 



 REPLY


🕒 3 years 10 months ago



change

list all depend jar please .

 0 

 REPLY

🕒 4 years 4 months ago
- 6 of 14
- 12/25/2017 12:31 AM



Bansal

Guest

Hi Just want to understand the flow.

How the getHelloWorld of the webservice is called

👍 0 🗨️ REPLY

🕒 4 years 6 months ago



Zeus

Guest

MK can you provide a tutorial on how to read webservice via another web application ? also can you explain how this was published under the hood? also why did we not need ws-gen (i thought default was document if not specified) ?

please help explain

Thanks

👍 0 🗨️ REPLY

🕒 4 years 6 months ago



Haris

Guest

Hi Mkyong,

Thank you for the tutorial this very valuable to me.

And I have a following question please make me understand here.

For the multiple endpoints in the same application, I can change the sun-jaxws.xml
As bellow, I test that is working fine,

But in each interface how can I keep more than one method and can call these methods from the client individually please help me
If there is a way to do this.

In the @WebMethod can I add any other parameter to define the endpoint to the method level
(As similar what available in RESTFUL web service)

👍 0 🗨️ REPLY

🕒 5 years 28 days ago



Haris

Guest

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(As similar what available in RESTFUL web service)

👍 0 🗨️ REPLY

🕒 5 years 28 days ago



Kea

Guest

Lot of you asked how to invoke the web services.

After you developed successfully, you will get the wall.

Download SoapUI 4.5.1. , it's free, then create a new project, enter the wsdl , you are all set.
You will see the endpoints listed in the left pane.

👍 0 🗨️ REPLY

🕒 5 years 2 months ago



Redhat

Guest

I'm trying to deploy the same in weblogic, but I'm getting below error

Caused By: com.sun.xml.ws.util.ServiceConfigurationError:

com.sun.xml.ws.api.wsdl.writer.WSDLGeneratorExtension: Provider

weblogic.wsee.jaxws.framework.policy.WSDLGeneratorExtension is specified

in jar:file:/C:/app/1035/wlserver_10.3/server/lib/weblogic.jar!/META-INF/services

/com.sun.xml.ws.api.wsdl.writer.WSDLGeneratorExtension but could not be instantiated:

java.lang.ClassCastExcepti
on

0 REPLY

5 years 5 months ago



carlos chiquillo

I have the same problem... any solution?

Guest

0 REPLY

4 years 6 months ago



michael

How to invoke the web service?

Guest

0 REPLY

5 years 6 months ago



sanjay

I am getting the below exception :

SEVERE: WSSERVLET11: failed to parse runtime descriptor: javax.xml.ws.WebServiceException

Runtime descriptor "/WEB-INF/sun-jaxws.xml" is missing

Guest

0 REPLY

5 years 6 months ago



Muhammad Gelbana

(<http://mgelbana.blogspot.com>)

What is the cause (i.e. the exception that caused that
exceptoin) of that exception ?

Guest

0 REPLY

4 years 3 months ago



Zeus

im getting the following error when performing mvn tomcat:redeploy in tomcat SEVERE: Error
listenerStart May 17, 2012 12:34:06 AM org.apache.catalina.core.StandardContext start SEVERE:
Context [/WS_mkyong_web] startup failed due to previous errors any idea, why? here is the pom.xml
that im using.. thanks in advance <project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-
v4_0_0.xsd"> <modelVersion>4.0.0</modelVersion> <groupId>com.mkyong</groupId>
<artifactId>WS_mkyong_web</artifactId> <packaging>war</packaging> <version>1.0-
SNAPSHOT</version> <name>WS_mkyong_web Maven Webapp</name>
<url>http://maven.apache.org</url> <dependencies> <dependency> <groupId>junit</groupId>
<artifactId>junit</artifactId> <version>3.8.1</version> <scope>test</scope> </dependency>
</dependencies> <build> <finalName>WS_mkyong_web</finalName> <plugins> <!-- Maven Tomcat
Plugin --> <plugin> <groupId>org.codehaus.mojo</groupId> <artifactId>tomcat-maven-
plugin</artifactId> <configuration> <url>http://127.0.0.1:8080/manager/html</url>
<server>TomcatServer</server> <path>/WS_mkyong_web</path> </configuration> </plugin>
</plugins> </build> </project>

Guest

0 REPLY

5 years 7 months ago



Zeus

ok, we are missing the following dependency from pom.xml

Guest

```
<dependency>
  <groupId>com.sun.xml.ws</groupId>
  <artifactId>jaxws-rt</artifactId>
  <version>2.1.4</version>
</dependency>
```

Thanks MK

0 REPLY

5 years 7 months ago



Connie Leung

Guest

Good tutorial. however, I don't know how to call the web method in the web service.

Do I need to use wsimport tool to generate the artifact and invoke the web method in servlet.
THanks.



5 years 7 months ago



Zeus

Guest

that would be a helpful tutorial. thanks MK



5 years 7 months ago



Fernando

Guest

java.lang.ClassNotFoundException: com.sun.xml.ws.transport.http.servlet.WSServletContextListener

I use:

- JDK 1.6_26

- Eclipse Indigo

Is there no other solutions???

Thanks.

Fernando Aspiazu



5 years 9 months ago



Zeus

Guest

<http://www.mkylong.com/webservices/jax-ws/java-lang-classnotfoundexception-com-sun-xml-ws-transport-http-servlet-wsservletcontextlistener/> (<http://www.mkylong.com/webservices/jax-ws/java-lang-classnotfoundexception-com-sun-xml-ws-transport-http-servlet-wsservletcontextlistener/>)



5 years 7 months ago



Guest

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5 years 9 months ago




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6 years 9 months ago





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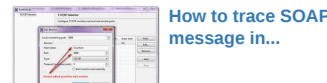
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Mkyong.com is for Java and J2EE developers, all examples are simple and easy to understand, and well tested in my development environment.

Mkyong.com is created, written by, and maintained by Yong Mook Kim, aka Mkyong. It is built on WordPress (<https://wordpress.org/>), hosted by Liquid Web (<http://www.liquidweb.com/?RID=mkyong>), and the caches are served by CloudFlare CDN.

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