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JAX-WS + Java Web Application Integration Example



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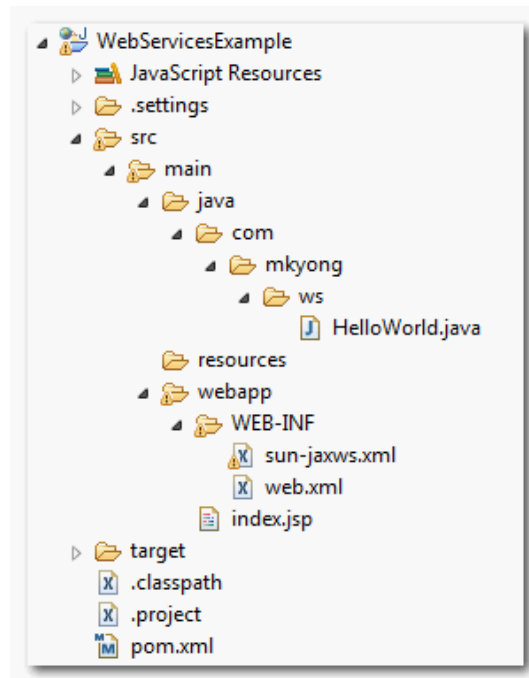
By [mkyong](#)

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.ws.WebMethod;  
import javax.ws.WebService;
```



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```
@WebService
public class HelloWorld{

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

}
```

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>

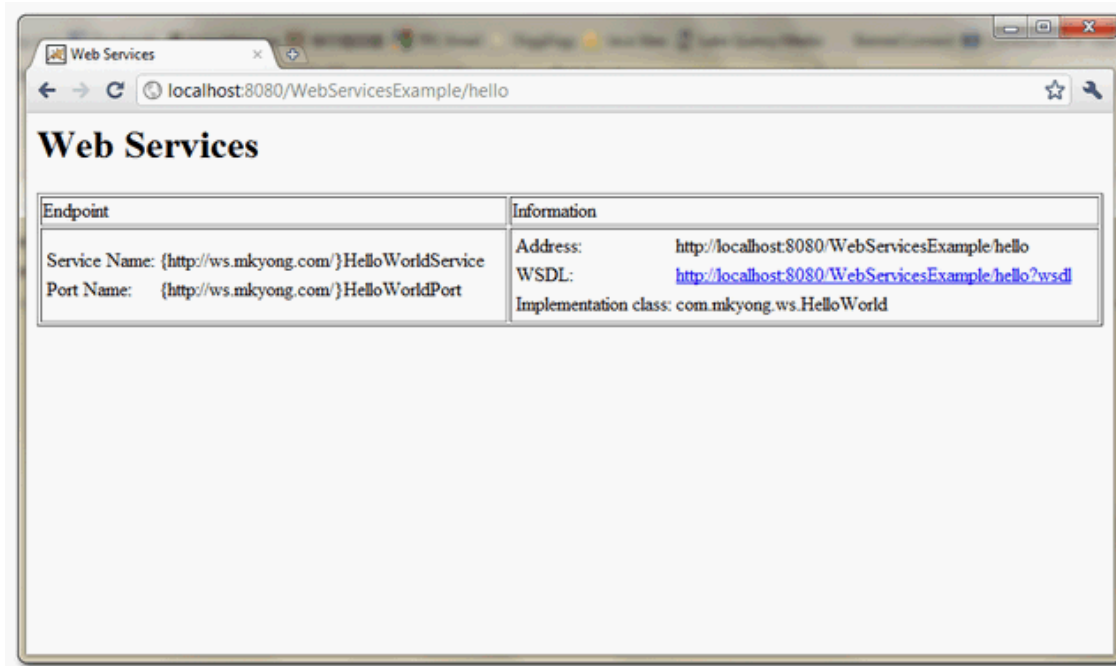
  <listener>
    <listener-class>
      com.sun.xml.ws.transport.http.servlet.WSServletContextListener
    </listener-class>
  </listener>
  <servlet>
    <servlet-name>hello</servlet-name>
    <servlet-class>
      com.sun.xml.ws.transport.http.servlet.WSServlet
    </servlet-class>
    <load-on-startup>1</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](#) (7KB)

Reference

1. [How to deploy JAX-WS on Tomcat](#)
2. [JAX-WS hello world example \(document-style\)](#)

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