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CXF SOAP Without Spring

By admin | October 03, 2012 | Updated : March 27, 2016  [cxf, soap](#),  5 Comments



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CXF SOAP Without Spring explains about step by step details of Creating / Developing Web service using Apache CXF without any spring dependencies

Apache CXF is a free and open source project, and a fully featured Webservice framework. It helps you building webservices using different front-end API's, like as JAX-RS and JAX-WS.

Most of the tutorial related to Apache CXF is developed using spring framework, this is because of easy integration with spring. But it is not a necessity.

In this, we are extending **CXFNonSpringServlet** in order to remove spring dependency.

Required Libraries



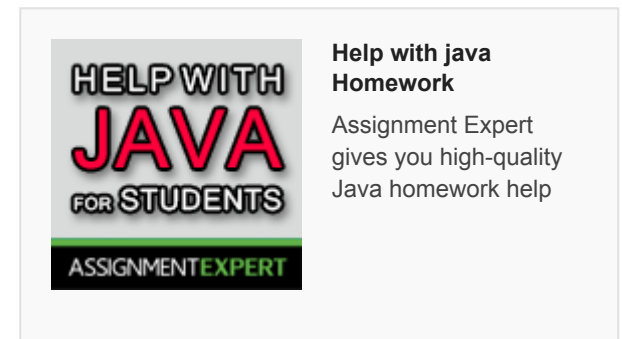
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1. [JDK 6](#)
2. [Eclipse 3.7](#)
3. [CXF-2.7.3](#)
4. [Tomcat 7](#)

Following jar must be in ClassPath

1. commons-logging-1.1.1.jar
2. cxf-2.7.3.jar
3. httpasyncclient-4.0-beta3.jar
4. httpclient-4.2.1.jar
5. httpcore-4.2.2.jar
6. httpcore-nio-4.2.2.jar
7. neethi-3.0.2.jar
8. wsdl4j-1.6.2.jar
9. xmlschema-core-2.0.3.jar



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CXF Without Spring

I am creating a sample web service project that pass Student object and return with some changes on that object. The service is using simple POJO (Plain Old Java Object) bean.

Firstly create a Dynamic Web Project (**File->New->Dynamic Web Project**) named "CXFTutorial" according to following screenshot

New	Alt+Shift+N	 Web Application Project
Open File...		 JPA Project
Close	Ctrl+W	 Enterprise Application Project
Close All	Ctrl+Shift+W	 Dynamic Web Project



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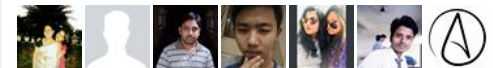
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Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.



Project name: CXFTutorial

Project location

☒ Use default location

Location: C:\Documents and Settings\Melbin\workspace\CXFTutorial

Browse...

Target runtime

Apache Tomcat v7.0



New Runtime...

Dynamic web module version

3.0



Configuration

Default Configuration for Apache Tomcat v7.0



Modify...

A good starting point for working with Apache Tomcat v7.0 runtime. Additional facets can later be installed to add new functionality to the project.

EAR membership

☐ Add project to an EAR

EAR project name: EAR



New Project...

Working sets

☐ Add project to working sets

Working sets:



Select...



< Back

Next >

Finish

Cancel

```
package com.student;

public class Student {
    private String name;
    public String getName() {
        return name;
    }
    public void setName(String name) {
        this.name = name;
    }
}
```

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- Asynchronous Web Service Using CXF
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Read timed out
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5 Responses to "CXF SOAP Without Spring"

Roman

2012-10-04 08:10:47.0

Great tutorial. Thanks. I used it in my application and got this error

SRVE0242I: [oLine] [/oline22] [SimpleCXFNonSpringServlet]: Initialization successful.

[11/6/14 14:39:23:956 CET] 00000026 E UOW=null

source=com.ibm.ws.webcontainer.servlet

class=com.ibm.ws.webcontainer.servlet.ServletWrapper method=service

org=null prod=null component=null thread=[WebContainer : 0]

SRVE0068E: Uncaught exception created in one of the service methods of the servlet SimpleCXFNonSpringServlet in application oLine. Exception created :

java.lang.NullPointerException

at

org.apache.cxf.transport.servlet.ServletController.invoke(ServletController.java:1!

at

org.apache.cxf.transport.servlet.ServletController.invoke(ServletController.java:1!

at

org.apache.cxf.transport.servlet.CXFNonSpringServlet.invoke(CXFNonSpringServlet

at

org.apache.cxf.transport.servlet.AbstractHTTPServlet.handleRequest(AbstractHTT

```
at javax.servlet.http.HttpServlet.service(HttpServlet.java:718)
at
org.apache.cxf.transport.servlet.AbstractHTTPServlet.service(AbstractHTTPServle

at
com.ibm.ws.webcontainer.servlet.ServletWrapper.service(ServletWrapper.java:16

at
com.ibm.ws.webcontainer.servlet.ServletWrapper.service(ServletWrapper.java:15

at
com.ibm.ws.webcontainer.filter.WebAppFilterChain.doFilter(WebAppFilterChain.j

at
com.ibm.ws.webcontainer.filter.WebAppFilterChain._doFilter(WebAppFilterChain.

at
com.ibm.ws.webcontainer.filter.WebAppFilterManager.doFilter(WebAppFilterMar

at
com.ibm.ws.webcontainer.servlet.ServletWrapper.handleRequest(ServletWrappe

at
com.ibm.ws.webcontainer.servlet.ServletWrapper.handleRequest(ServletWrappe

at
```



```
at
com.ibm.ws.webcontainer.webapp.WebApp.handleRequest(WebApp.java:3954)
at
com.ibm.ws.webcontainer.webapp.WebGroup.handleRequest(WebGroup.java:27

at
com.ibm.ws.webcontainer.WebContainer.handleRequest(WebContainer.java:942

at
com.ibm.ws.webcontainer.WSWebContainer.handleRequest(WSWebContainer.ja

at
com.ibm.ws.webcontainer.channel.WCChannelLink.ready(WCChannelLink.java:18

at
com.ibm.ws.http.channel.inbound.impl.HttpInboundLink.handleDiscrimination(H

at
com.ibm.ws.http.channel.inbound.impl.HttpInboundLink.handleNewRequest(Htt

at
com.ibm.ws.http.channel.inbound.impl.HttpInboundLink.processRequest(HttpInk

at
com.ibm.ws.http.channel.inbound.impl.HttpInboundLink.ready(HttpInboundLink

at
```

```
at
com.ibm.ws.tcp.channel.impl.NewConnectionInitialReadCallback.complete(NewC

at
com.ibm.ws.tcp.channel.impl.AioReadCompletionListener.futureCompleted(AioR

at
com.ibm.io.async.AbstractAsyncFuture.invokeCallback(AbstractAsyncFuture.java:

at
com.ibm.io.async.AsyncChannelFuture.fireCompletionActions(AsyncChannelFutu

at com.ibm.io.async.AsyncFuture.completed(AsyncFuture.java:138)
at com.ibm.io.async.ResultHandler.complete(ResultHandler.java:204)
at
com.ibm.io.async.ResultHandler.runEventProcessingLoop(ResultHandler.java:775

at com.ibm.io.async.ResultHandler$2.run(ResultHandler.java:905)
at com.ibm.ws.util.ThreadPool$Worker.run(ThreadPool.java:1646)
```

Could anyone tell me how to fix it? I have no idea why it does not work. I deployed the application on WAS.

admin

Sorry, I am too clueless & can't help you as I don't have WebSphere application server for deploy it. This tutorial is only tested with Tomcat.

A better choice will be asking to CXF forum mailing list. See the link below

<http://cxf.547215.n5.nabble.com/cxf-user-f547216.html>

Roman

2012-10-06 08:10:47.0

Thanks for quick reply. I would like to try your example. Could you give me the wsdl file please?

Roman

2012-10-07 08:10:47.0


When I put your example on Tomcat, following error occurs:

```
javax.servlet.ServletException: Servlet.init() for servlet  
SimpleCXFNonSpringServlet threw exception  
org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:  
  
org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:100)
```

```
org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Proce
org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(Abstrac
org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:313
java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.ja
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:90
java.lang.Thread.run(Thread.java:662)
root cause
```

```
java.lang.IllegalArgumentException: Cannot create URL for this address
/ChangeStudent
com.sun.xml.internal.ws.transport.http.server.EndpointImpl.publish(EndpointIm
com.sun.xml.internal.ws.spi.ProviderImpl.createAndPublishEndpoint(ProviderIm
javax.xml.ws.Endpoint.publish(Endpoint.java:170)
com.student.SimpleCXFNonSpringServlet.loadBus(SimpleCXFNonSpringServlet.ja
org.apache.cxf.transport.servlet.CXFNonSpringServlet.init(CXFNonSpringServlet.j
org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.j
org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:100)
```

```
org.apache.coyote.http11.AbstractHttp11Processor.process(AbstractHttp11Proce
org.apache.coyote.AbstractProtocol$AbstractConnectionHandler.process(Abstrac
org.apache.tomcat.util.net.JIoEndpoint$SocketProcessor.run(JIoEndpoint.java:313
java.util.concurrent.ThreadPoolExecutor$Worker.runTask(ThreadPoolExecutor.ja
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:90
java.lang.Thread.run(Thread.java:662)
```



sanjeev

2012-10-08 08:10:47.0

@Roman,

I have created an example with CXF 2.7.12 package.

As of 2.7.12 you need too have following additional libraries

- 1) asm-3.3.1.jar
- 2) woodstox-core-asl-4.4.0.jar
- 3) stax2-api-3.1.4.jar

Just change the extension from zip to war. It also contains the source code and required libraries too

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