

CS 683 Emerging Technologies
Spring Semester, 2003
Doc 12 SOAP

BabelFish Java Soap Example 2

References

Apache SOAP, <http://ws.apache.org/soap/>

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BabelFish Java Soap Example

Download and Install Java SOAP

Will use Apache SOAP as it supports client side usage

Download Apache SOAP at: <http://xml.apache.org/dist/soap/>

I used version 2.3.1

The directions at: <http://ws.apache.org/soap/docs/index.html> are useful.

You need to download the following:

mail.jar <http://java.sun.com/products/javamail/>

activation.jar

<http://java.sun.com/products/beans/glasgow/jaf.html>

Apache Xerces compiler <http://xml.apache.org/xerces-j>

You need to have the following in your classpath:

soap.jar

mail.jar

activation.jar

xercesImpl.jar

I have yet to determine if one really needs all these jar files

Simple Example

Modified from Apache SOAP example

```
import org.apache.soap.rpc.Call;
import org.apache.soap.rpc.Parameter;
import org.apache.soap.rpc.Response;
import org.apache.soap.Constants;
import org.apache.soap.Fault;

import java.util.*;
import java.net.URL;

public class BabelFishExample {
    public static void main( String[] arguments) throws Exception {
        Call test = new Call();
        test.setTargetObjectURI ("urn:xmethodsBabelFish");
        test.setMethodName ("BabelFish");
        test.setEncodingStyleURI(Constants.NS_URI_SOAP_ENC);

        Vector params = new Vector ();
        params.addElement (
            new Parameter("translationmode", String.class, "en_de", null));
        params.addElement (
            new Parameter("sourcedata", String.class, "this is a test", null));
        test.setParams (params);

        URL service =
            new URL("http://services.xmethods.net:80/perl/soaplite.cgi");
        Response translation = test.invoke ( service, "" );

        if (translation.generatedFault ()) {
```

```
Fault fault = translation.getFault ();
System.err.println("Generated fault: " + fault);
} else {
    Parameter result = translation.getReturnValue ();
    System.out.println (result.getValue ());
}
}
}
```