

BusinessProcessTechnologies

ST2, Winter Term 2020 / 2021

Sheet 7: Webservices with SOAP / WSDL

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Please upload a screenshot of:

- 1. the WSDL,**
- 2. the SoapUI-Test**
- 3. the resulting app**
- 4. and the output of the application**

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<wsdl:definitions xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" xmlns="http://schemas.xmlsoap.org/wsdl/" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" targetNamespace="http://thomas-bayer.com/blz/">
  <wsdl:documentation>BLZService</wsdl:documentation>
  <wsdl:types>
    <xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified" targetNamespace="http://thomas-bayer.com/blz/">
      <xsd:element name="getBank" type="tns:getBankType"/>
      <xsd:element name="getBankResponse" type="tns:getBankResponseType"/>
    </xs:schema>
    <xsd:complexType name="getBankType">
      <xsd:sequence>
        <xsd:element name="blz" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="getBankResponseType">
      <xsd:sequence>
        <xsd:element name="details" type="tns:detailsType"/>
      </xsd:sequence>
    </xsd:complexType>
    <xsd:complexType name="detailsType">
      <xsd:sequence>
        <xsd:element minOccurs="0" name="bezeichnung" type="xsd:string"/>
        <xsd:element minOccurs="0" name="bic" type="xsd:string"/>
        <xsd:element minOccurs="0" name="ort" type="xsd:string"/>
        <xsd:element minOccurs="0" name="plz" type="xsd:string"/>
      </xsd:sequence>
    </xsd:complexType>
  </wsdl:types>
  <wsdl:message name="getBank">
    <wsdl:part name="parameters" element="tns:getBank"/>
  </wsdl:message>
  <wsdl:message name="getBankResponse">
    <wsdl:part name="parameters" element="tns:getBankResponse"/>
  </wsdl:message>
  <wsdl:portType name="BLZServicePortType">
    <wsdl:operation name="getBank">
      <wsdl:input message="tns:getBank"/>
      <wsdl:output message="tns:getBankResponse" wsaw:Action="http://thomas-bayer.com/blz/BLZService/getBankResponse"/>
    </wsdl:operation>
  </wsdl:portType>
  <wsdl:binding name="BLZServiceSOAP11Binding" type="tns:BLZServicePortType">
    <soap:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="getBank">
      <soap:operation style="document" soapAction="" />
      <wsdl:input>
        <soap:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>
  <wsdl:binding name="BLZServiceSOAP12Binding" type="tns:BLZServicePortType">
    <soap12:binding style="document" transport="http://schemas.xmlsoap.org/soap/http"/>
    <wsdl:operation name="getBank">
      <soap12:operation style="document" soapAction="" />
      <wsdl:input>
        <soap12:body use="literal"/>
      </wsdl:input>
      <wsdl:output>
        <soap12:body use="literal"/>
      </wsdl:output>
    </wsdl:operation>
  </wsdl:binding>

```

SoapUI 5.6.0

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Projects

Test-Thomas-Bayer-BLZService

- BLZServiceSOAP11Binding
- getBank
- BLZServiceSOAP12Binding
- getBank

Request 1

Raw XML

http://www.thomas-bayer.com/axis2/services/BLZService

<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope" xmlns:blz="http://thomas-bayer.com/blz/">
 <soap:Header/>
 <soap:Body>
 <blz:getBank>
 <blz:blz>61290120</blz:blz>
 </blz:getBank>
 </soap:Body>
</soap:Envelope>

Raw XML

<soapenv:Envelope xmlns:soapenv="http://www.w3.org/2003/05/soap-envelope">
 <soapenv:Body>
 <ns1:getBankResponse xmlns:ns1="http://thomas-bayer.com/blz/">
 <ns1:details>
 <ns1:bezeichnung>Volksbank Kirchheim-Nürtingen</ns1:bezeichnung>
 <ns1:bic>GENODES1NUE</ns1:bic>
 <ns1:ort>Nürtingen</ns1:ort>
 <ns1:plz>72610</ns1:plz>
 </ns1:details>
 </ns1:getBankResponse>
 </soapenv:Body>
</soapenv:Envelope>

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	260
Encoding	UTF-8
Endpoint	http://www.thoma...
Timeout	
Bind Address	
Follow Redirects	true
Username	
Password	

Auth Headers (0) Attachments (...) WS-A WS-RM JMS Headers JMS Property (0)

response time: 102ms (419 bytes)

Headers (5) Attachments (...) SSL Info WSS (0) JMS (0)

Properties

SoapUI log http log jetty log error log wsrm l... memory l...

```
1  ...5 lines
2
3  package blzservice;
4  import blzservice.client.BLZService;
5  import blzservice.client.DetailsType;
6  import javax.swing.*;
7  import java.awt.event.ActionEvent;
8  import java.awt.event.ActionListener;
9
10
11
12
13  /**
14   * 
15   * @author Konstantinos Loizas
16   */
17
18  public class BLS implements ActionListener {
19
20      JFrame frame = new JFrame();
21      JPanel panel = new JPanel();
22
23      JTextField searchText = new JTextField(20);
24
25      JLabel nameImp = new JLabel();
26      JLabel bicImp = new JLabel();
27      JLabel ortImp = new JLabel();
28      JLabel plzImp = new JLabel();
29
30
31      BLS(){
32          prepareGUI();
33      }
34
35      public void prepareGUI(){
36          frame.setTitle("BLS Service");
37
38          frame.setSize(500, 300);
39          frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
40          frame.add(panel);
41          panel.setLayout(null);
42
43          searchText.setBounds(10, 20, 80, 25);
44          String searchValue = searchText.getText();
45          panel.add(searchText);
46
47          JLabel name = new JLabel("Name");
48          name.setBounds(10, 60, 80, 25);
49          panel.add(name);
50
51          JLabel bic = new JLabel("BIC");
52          bic.setBounds(10, 100, 80, 25);
53          panel.add(bic);
54
55          JLabel ort = new JLabel("Ort");
56          ort.setBounds(10, 140, 80, 25);
57          panel.add(ort);
58
59          JLabel plz = new JLabel("PLZ");
60          plz.setBounds(10, 180, 80, 25);
61          panel.add(plz);
62
63          JButton searchButton = new JButton("Search");
64          searchButton.setBounds(110, 20, 80, 25);
65          panel.add(searchButton);
66          searchButton.addActionListener(this);
67
68          nameImp.setBounds(110, 60, 200, 25);
69          panel.add(nameImp);
70
71          bicImp.setBounds(110, 100, 120, 25);
72          panel.add(bicImp);
73
74          ortImp.setBounds(110, 140, 120, 25);
75          panel.add(ortImp);
76
77          plzImp.setBounds(110, 180, 120, 25);
78          panel.add(plzImp);
79
80
81          frame.setVisible(true);
82      }
83
84      @Override
85      public void actionPerformed(ActionEvent e) {
86
87          BLZService service = new BLZService();
88          DetailsType details = service.getBLZServiceSOAP11PortHttp().getBank(searchText.getText());
89
90          nameImp.setText(details.getBezeichnung());
91          bicImp.setText(details.getBic());
92          ortImp.setText(details.getOrt());
93          plzImp.setText(details.getPlz());
94
95
96          System.out.println(details.getBezeichnung());
97          System.out.println(details.getBic());
98          System.out.println(details.getOrt());
99          System.out.println(details.getPlz());
100
101
102
103      class Service {
104          public static void main(String[] a) {
105              new BLS();
106          }
107      }
108
109 }
```



Name Volksbank Kirchheim-Nürtingen

BIC GENODES1NUE

Ort Nürtingen

PLZ 72610