

TP1 :Mise en oeuvre des Web services SOAP, WSDL, UDDI avec JAXWS

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WS4

Banqueservices.java

```
package ws;

import jakarta.jws.WebMethod;
import jakarta.jws.WebParam;
import jakarta.jws.WebService;

import java.util.Date;
import java.util.List;

@WebService(serviceName = "BanqueWS")
public class BanqueService {
    @WebMethod(operationName = "Convert")
    public double conversion (@WebParam(name = "montant") double mt) {
        return mt*10.54;
    }

    @WebMethod
    public Compte getCompte (@WebParam(name = "code") int code){
        return new Compte(code,Math.random()*9888, new Date());
    }

    @WebMethod
    public List<Compte> listComptes(){
        return List.of(
            new Compte(1,Math.random()*9888, new Date()),
            new Compte(2,Math.random()*9888, new Date()),
            new Compte(3,Math.random()*9888, new Date())
        );
    }
}
```

Compte.java

```
package ws;

import jakarta.xml.bind.annotation.XmlAccessType;
import jakarta.xml.bind.annotation.XmlAccessorType;
import jakarta.xml.bind.annotation.XmlRootElement;
import jakarta.xml.bind.annotation.XmlTransient;

import java.util.Date;

@XmlRootElement(name = "Compte")
@XmlAccessorType(XmlAccessType.FIELD)
public class Compte {
```

```

private int code;
private double solde;
@XmlTransient
private Date dateCreation;

public Compte(int code, double solde, Date dateCreation) {
    this.code = code;
    this.solde = solde;
    this.dateCreation = dateCreation;
}

public Compte() {
}

public int getCode() {
    return code;
}

public void setCode(int code) {
    this.code = code;
}

public double getSolde() {
    return solde;
}

public void setSolde(double solde) {
    this.solde = solde;
}

public Date getDateCreation() {
    return dateCreation;
}

public void setDateCreation(Date dateCreation) {
    this.dateCreation = dateCreation;
}
}

```

serverjws.java

```

import jakarta.xml.ws.Endpoint;
import ws.BanqueService;

public class severJWS {
    public static void main (String[] args) {
        Endpoint.publish("http://0.0.0.0:9191/", new BanqueService());
        System.out.println("Web service déployé sur http://0.0.0.0:9191/**");
    }
}

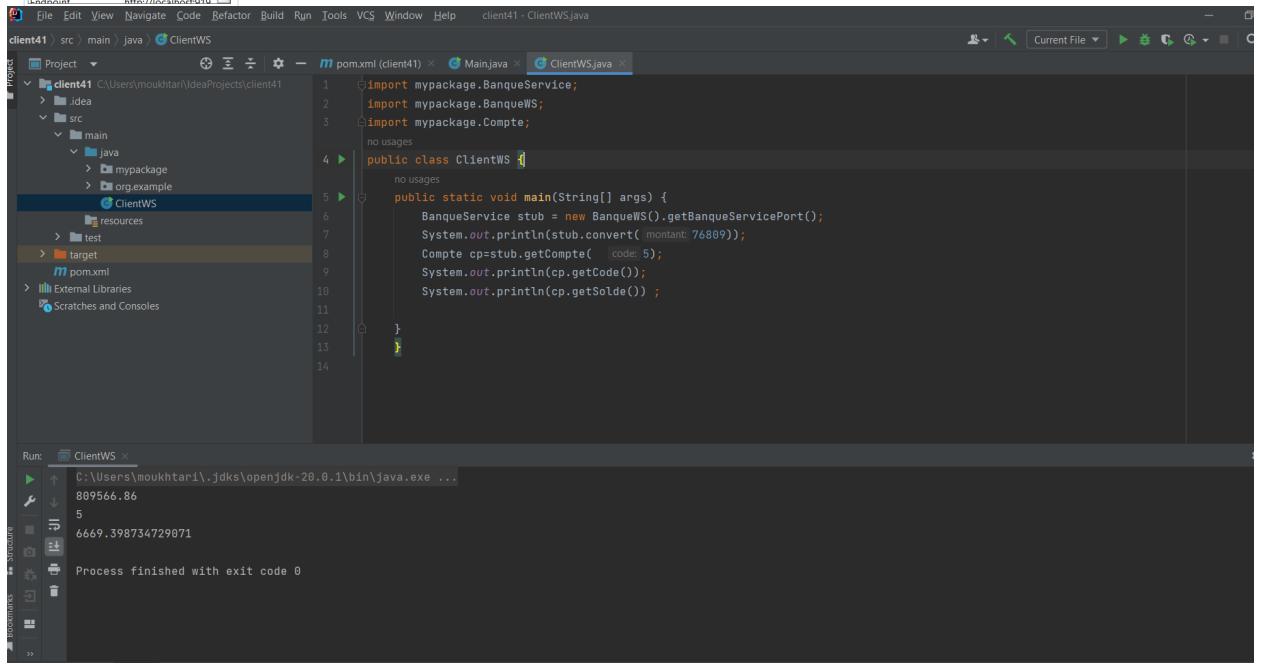
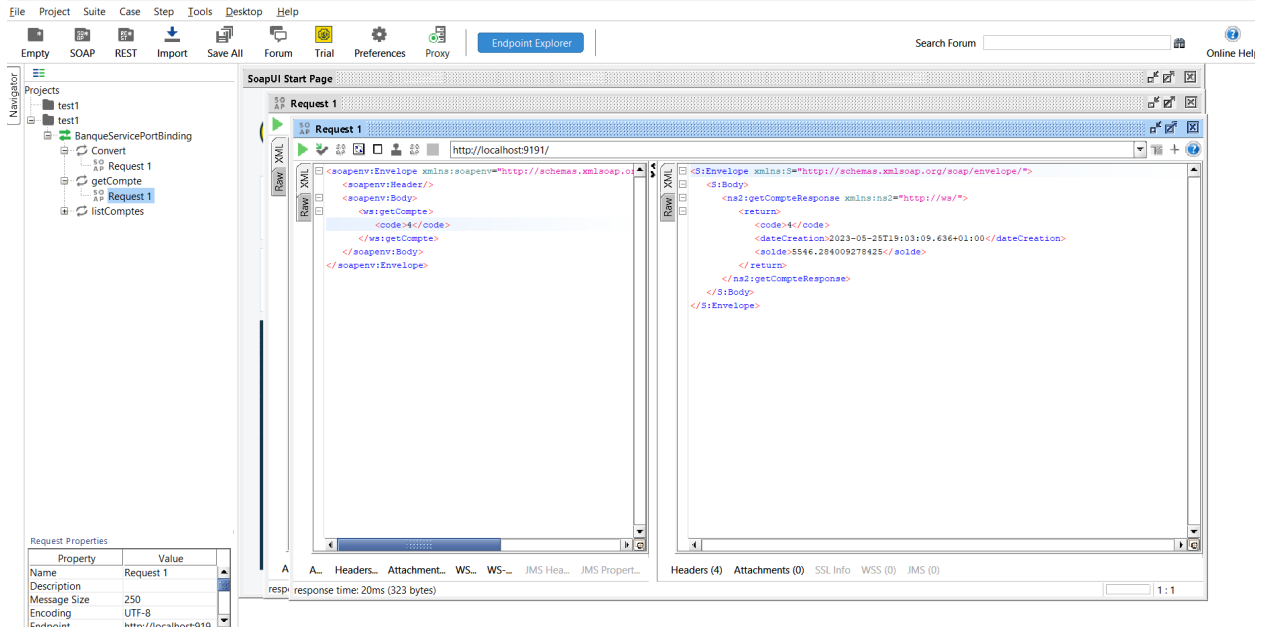
```

clientws.java

```
import mypackage.BanqueService;
import mypackage.BanqueWS;
import mypackage.Compte;
public class ClientWS {
    public static void main(String[] args) {
        BanqueService stub = new BanqueWS().getBanqueServicePort();
        System.out.println(stub.convert(76809));
        Compte cp=stub.getCompte( 5);
        System.out.println(cp.getCode());
        System.out.println(cp.getSolde()) ;

    }
}
```

TESTS:



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Navigator

- Projects
 - test1
 - BanqueServicePortBinding
 - Convert
 - Request 1
 - getCompte
 - listComptes
 - test2
 - BanqueServicePortBinding
 - Request 1
 - getCompte
 - listComptes

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	250
Encoding	UTF-8
Content-Type	text/xml

Request 1

http://localhost:9191/

Raw XML

```
<?xml version='1.0' encoding='UTF-8'>
<soapenv:Envelope xmlns:soapenv='http://schemas.xmlsoap.org/soap/envelope/'>
  <soapenv:Header/>
  <soapenv:Body>
    <ws:getCompte>
      <code>3</code>
    </ws:getCompte>
  </soapenv:Body>
</soapenv:Envelope>
```

Raw XML

```
<?xml version='1.0' encoding='UTF-8'>
<S:Envelope xmlns:S='http://schemas.xmlsoap.org/soap/envelope/'>
  <S:Body>
    <ns2:getCompteResponse xmlns:ns2='http://ws/'>
      <return>
        <code>3</code>
      </return>
    </ns2:getCompteResponse>
  </S:Body>
</S:Envelope>
```

response time: 77ms (265 bytes)

1:1

SoapUI 5.7.0

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Projects

- test1
- test1
 - BanqueServicePortBinding
 - Convert
 - Request 1
 - getCompte
 - listComptes

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	254
Encoding	UTF-8
Endpoint	http://localhost:9191

Properties

SoapUI Start Page

Request 1

http://localhost:9191/

Raw XML

```
<?xml version='1.0' encoding='UTF-8'?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header/>
  <soap:Body>
    <ws:Convert>
      <montant>806</montant>
    </ws:Convert>
  </soap:Body>
</soap:Envelope>
```

response time: 42ms (222 bytes)

Raw XML

```
<?xml version='1.0' encoding='UTF-8'?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:ConvertResponse xmlns:ns2="http://ws/">
      <return>8495.24</return>
    </ns2:ConvertResponse>
  </S:Body>
</S:Envelope>
```

Headers (4) Attachments (0) SSL Info WSS (0) JMS (0)

SoapUI log http log jetty log error log wsm log memory log

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Projects

- test1
- test1
 - BanqueServicePortBinding
 - Convert
 - Request 1
 - getCompte
 - Request 1
 - listComptes
 - Request 1

Request Properties

Property	Value
Name	Request 1
Description	
Message Size	205
Encoding	UTF-8
Endpoint	http://localhost:9191

Properties

SoapUI Start Page

Request 1

Request 1

http://localhost:9191/

Raw XML

```
<?xml version='1.0' encoding='UTF-8'?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header/>
  <soap:Body>
    <ws:listComptes/>
  </soap:Body>
</soap:Envelope>
```

response time: 4ms (570 bytes)

Raw XML

```
<?xml version='1.0' encoding='UTF-8'?>
<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Body>
    <ns2:listComptesResponse xmlns:ns2="http://ws/">
      <return>
        <code>1</code>
        <dateCreation>2023-05-25T19:03:59.785+01:00</dateCreation>
        <solde>1476.6725463124835</solde>
      </return>
      <return>
        <code>2</code>
        <dateCreation>2023-05-25T19:03:59.785+01:00</dateCreation>
        <solde>8589.694909926946</solde>
      </return>
      <return>
        <code>3</code>
        <dateCreation>2023-05-25T19:03:59.785+01:00</dateCreation>
        <solde>7204.269202001955</solde>
      </return>
    </ns2:listComptesResponse>
  </S:Body>
</S:Envelope>
```

Headers (4) Attachments (0) SSL Info WSS (0) JMS (0)