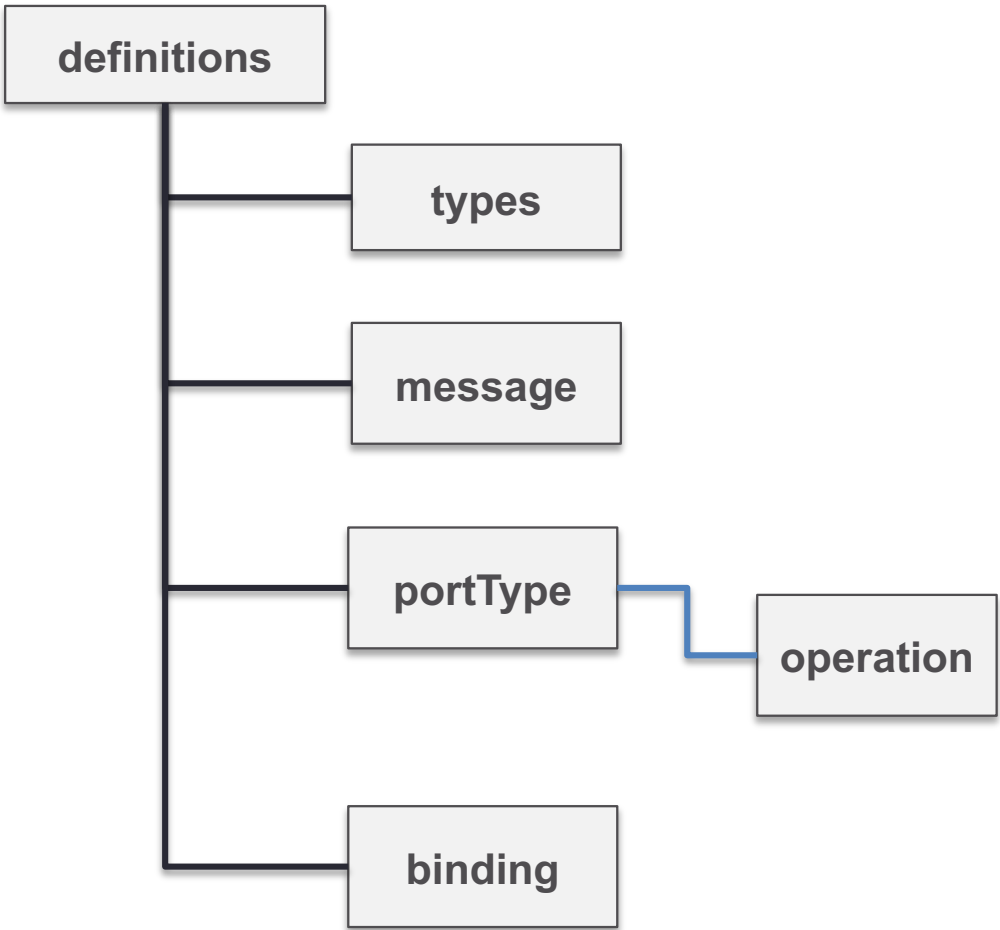


WSDL

# Concrete description



```

<definitions>

  <types></types>

  <message>
    <part></part>
  </message>

  <portType>
    <operation>
      <input></input>
      <output></output>
    </operation>
  </portType>

  <binding></binding>

  <service>
    <port></port>
  </service>

</definitions>
  
```

# Binding

- Defines the protocol and the data format needed to invoke operations

```

portType name="IdentityPT">
  <operation name="getIdentity">
    <input message="tns:getIdMsg"/>
    <output message="tns:getIdentityMsg"/>
  </operation>
</portType>

```

✓ HTTP transport protocol

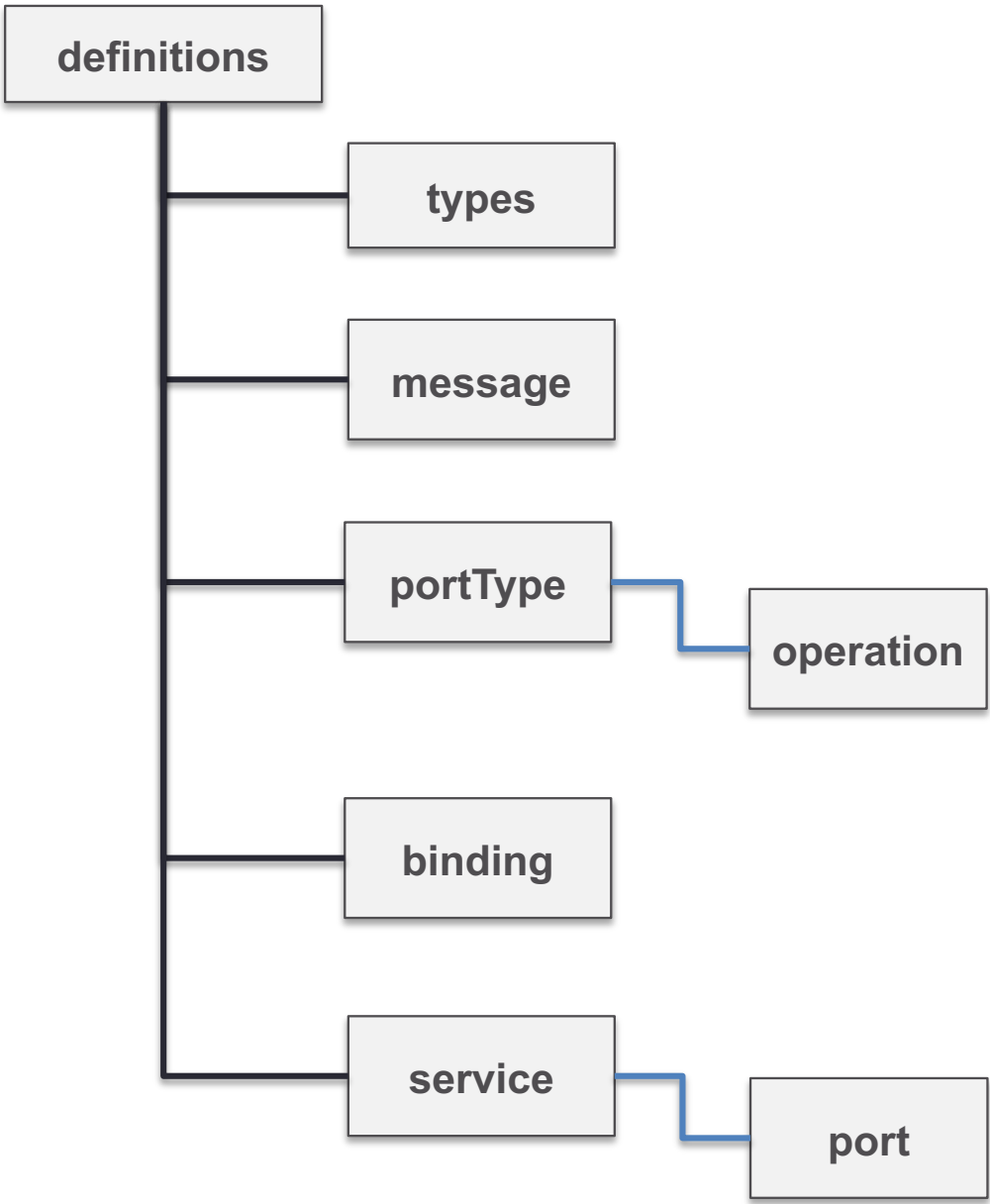
✓ SOAP document

```

<wsdl:binding name="IdentityWSBinding" type="tns:IdentityPT">
  <soap:binding transport="http://schema.xmlsoap.org/soap/http" style="document"/>
  <wsdl:operation name="getIdentite">
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>

```

The messages content is sent without encoding.



```

<definitions>

  <types></types>

  <message>
    <part></part>
  </message>

  <portType>
    <operation>
      <input></input>
      <output></output>
    </operation>
  </portType>

  <binding></binding>

  <service>
    <port></port>
  </service>

</definitions>
  
```

# WSDL: Service

- Defines all service entry points through **port** elements
- Each **port** element specifies an address for a given binding

```
<service name="IdentityWS">  
  <port name="IdentityPT" binding="IdentityWSBinding">  
    <soap:address location="http://localhost:8080/IdentityWSApp/IdentityWS"/>  
  </port>  
</service>
```



```
<wsdl:binding name="IdentityWSBinding" type="tns:IdentityPT">  
  <soap:binding transport="http://schema.xmlsoap.org/soap/http" style="document"/>  
  <wsdl:operation name="getIdentity">  
    <wsdl:input>  
      <soap:body use="literal"/>  
    </wsdl:input>  
    <wsdl:output>  
      <soap:body use="literal"/>  
    </wsdl:output>  
  </wsdl:operation>  
</wsdl:binding>
```

# Exercises

- Its time to apply what you have learned
- Go to "Exercises" under the section Service architectures on moodle.

