

# Create an XML Schema to Define the Domain

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- ❑ The web service domain is defined in an XML schema file (XSD) that Spring-WS will automatically export as a WSDL.
- ❑ Let's create an XSD file with operations to return a country's *name*, *population*, *capital*, and *currency*. The following file (from `src/main/resources/countries.xsd`) shows the necessary XSD contents.
- ❑ You can also download this file from [here](#).

```
<?xml version='1.0'?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://perscholas.com/springboot/myboot/producingwebservice"
  targetNamespace="http://perscholas.com/springboot/myboot/producingwebservice"
  elementFormDefault="qualified">

  <xs:element name="getCountryRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="name" type="xs:string" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:element name="getCountryResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="country" type="tns:country" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

  <xs:complexType name="country">
    <xs:sequence>
      <xs:element name="name" type="xs:string" />
      <xs:element name="population" type="xs:int" />
      <xs:element name="capital" type="xs:string" />
      <xs:element name="currency" type="tns:currency" />
    </xs:sequence>
  </xs:complexType>

  <xs:simpleType name="currency">
    <xs:restriction base="xs:string">
      <xs:enumeration value="GBP" />
      <xs:enumeration value="EUR" />
      <xs:enumeration value="PLN" />
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```